Revised Great Salt Lake Mineral Extraction Facility Operator Certification Application

Waterleaf Phase 1 LLC

Phase 1 Lithium Extraction Project

April 2, 2026

Contents

Contents ..... **i**

1 Introduction **1**
1.1 Purpose 1
1.2 Contents 1

2 Project Information **2**
2.1 Lithium Extraction Process 3
2.2 Commercial Plant Mass Balance 6
2.3 Commercial Plant Total Water Balance 8
2.4 Generated Waste 8
2.5 Location of Project 9
2.6 Supporting Documentation 9
2.7 Estimated Water and Brine Depletion 11
2.8 Rate of Extraction 11

3 Withdrawal Information **12**
3.1 Source Waters 12
3.2 Source Water Flow Rates 13
3.3 Project Duration 13
3.4 Project Plan to Measure Water 14

4 Discharge Information **14**
4.1 Influent and Discharge Characteristics 14
4.2 Seasonal Influences on Commercial Plant Operation 20
4.3 Nondischarging Operations 21

5 Impacted Habitat **21**
5.1 Description of Existing GSL Habitat and Biota in and around the Area of Operation 21
5.2 Potential Physical Impacts 28
5.3 Least Degrading Reasonable Alternatives 29
5.4 Mitigation Plan 29
5.5 Beneficial Use 29

6 Monitoring and Inspection Plan **30**
6.1 Description of Monitoring Means and Methods 30
6.2 Monitoring Plan 32
6.3 Monitoring Locations 32

7 Evidence Supporting the Operator Certification **33**
7.1 Commercial Plant Short- and Long-term Impact Evaluation 33
7.2 Supporting Documents 33

8 Summary of Changes Made as a Result of the Demonstration Plant's Operation **43**
8.1 Manganese Treatment 43
8.2 Equipment Scale-up 44
8.3 Recycling and Recirculation Processes 45
8.4 Other Changes 45

9 Demonstration Plant's Impact on the GSL North Arm 46

10 Data and Data Analyses during the Demonstration Plant's Operation 47

10.1 Demonstration Plant Operation Summary 47
10.2 Chemistry Data 50
10.3 Visual Observations 57
10.4 Flow Data 57
10.5 Biota Data 57
10.6 Habitat Data 57

11 UPDES Permit No. UT0026280 Modification Application and ADR 58

12 Additional Information Requested 58

13 Statement of No Negative Impact 59

14 Certification Statement and Signature 59

15 References 60

Tables

Table 1. Commercial Plant Annual Mass Balance 6
Table 2. Biota Cell Counts and Dry Weight 23
Table 3. Beneficial-use Classes for Gunnison Bay 29
Table 4. Water Quality Monitoring Means and Methods 31
Table 5. Annual Commercial Plant Mass Load Compared to North Arm Mass 35
Table 6. Long-term Percentage Impact of Commercial Operations to North Arm Chemistry 38
Table 7. Long-term Impact to South Arm Chemistry from Commercial Operations 40
Table 8. Changes Anticipated in Manganese Concentrations for Commercial Plant Discharges due to Treatment 44
Table 9. Changes Anticipated in Metals Concentrations for Commercial Plant Discharges from Eliminating Carbon Steel Tanks 44
Table 10. Changes Anticipated in Salinity Concentrations for Commercial Plant Discharges due to Process Changes 45
Table 11. Demonstration Plant Operation Changes and Monitoring Events 48
Table 12. Demonstration Plant Average Concentrations (Weeks 1–28) 51
Table 13. Demonstration Plant Flow-weighted Influent and Discharge Concentrations 53
Table 14. Demonstration Plant Weekly Influent Load 55
Table 15. Demonstration Plant Weekly Discharge Load 56

Figures

Figure 1. Commercial Plant Facility Plan 3
Figure 2. Commercial Plant Process Schematic 5
Figure 3. Location and Monitoring Map 10
Figure 4. April 2025 Biota Abundance Graphs 25
Figure 5. June 2025 Biota Abundance Graphs 26
Figure 6. April and June 2025 Biota Growth Results 27
Figure 7. Long-term North Arm Water Level Forecasts 37

Appendices

A. UDWQ Rule 317-16, Great Salt Lake Mineral Extraction Facility Operator Certification Approval
B. UPDES Permit #UT0026280 Modification Application
C. Level II Antidegradation Review
D. Final Monitoring Report
E. Federal and State Supporting Permits and Certifications
F. Microbialite Survey Memorandum 2025 Commercial Plant
G. Great Salt Lake Brine Dispersion Modeling Report
H. Commercial Plant Long-term Effect on Gilbert Bay Chemistry
I. Demonstration Plant Operation and Relation to Water Quality
J. Commercial Facility Mass Balance

The enclosed application contains information that is held by Waterleaf Resources, LLC ("Waterleaf") as confidential business information and/or trade secrets that are not available to the general public. Waterleaf requests that the Division of Water Quality (the “Division”) treat the application and associated data as protected under the Section 305 of the Utah Government Records Access Management Act (“GRAMA”) due to their nature as business/confidential records. Waterleaf seeks business confidentiality because the business of direct lithium extraction (“DLE”) from brine is highly competitive, with multiple technology providers competing in a rapidly evolving technology space, and a limited number of project locations. Disclosure of the information provided would potentially enable competitors in the DLE space to take advantage of Waterleaf’s proprietary work to obtain a cost advantage, and potentially reverse-engineer parts of the DLE process. Were the Division to permit public disclosure of Waterleaf’s confidential information/trade secrets, Waterleaf would be less likely to provide such information to the Division in the future, or to proceed with further interaction with the Division. This paragraph constitutes the concise statement of reasons for classifying the records as protected as provided in Section 309 of GRAMA.

Abbreviations

µg/L	micrograms per liter
ADR	Antidegradation Review
af	acre-feet
afy	acre-feet per year
DLE	direct lithium extraction
DNA	deoxyribonucleic acid
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
FFSL	Utah Division of Forestry, Fire and State Lands
gpm	gallons per minute
GSL	Great Salt Lake
HDPE	high-density polyethylene
ITS	internal transcribed spacer
IX	ion exchange
IXM	ion exchange media
kaf	thousand acre-feet
kafy	thousand acre-feet per year
Li	lithium
maf	million acre-feet
MDL	method detection limit
mg/L	milligrams per liter
mgd	million gallons per day
mL	milliliters
MMF	multimedia filter
msl	mean sea level
ND	nondetect (laboratory results below minimum detection limit)
NetDMR	Network Discharge Monitoring Report
NGVD 1929	National Geodetic Vertical Datum of 1929
No.	number
Operator Application	Great Salt Lake Mineral Extraction Facility Operator Application
RO	reverse osmosis
rRNA	ribosomal ribonucleic acid
TDS	total dissolved solids
tons	U.S. short tons
TTO	total toxic organics
UDWQ	Utah Division of Water Quality
UF	ultrafiltration
UGS	Utah Geological Survey
UPDES	Utah Pollutant Discharge Elimination System
USGS	U.S. Geological Survey
vs.	versus
Waterleaf Resources	Waterleaf Phase 1 LLC
WSE	water surface elevation

1 Introduction

Waterleaf Phase 1 LLC (Waterleaf Resources) is proposing to extract lithium from Great Salt Lake (GSL) North Arm brine waters by constructing and operating the Phase 1 Lithium Extraction Project (Commercial Plant) that uses a proprietary ion-exchange (IX) direct lithium extraction (DLE) process to produce lithium carbonate for commercial sale. This proprietary technology is a nonconsumptive and nonevaporative process. The GSL brine that is withdrawn will be discharged back into the GSL with no brine depletion.

1.1 Purpose

The purpose of this application is to acquire authorization from the Utah Division of Water Quality (UDWQ) to operate the Waterleaf Resources GSL Phase 1 lithium extraction plant.

This application was revised to include additional clarifying language and address review comments from UDWQ (UDWQ 2026).

This application has been prepared in accordance with the information required by Utah Administrative Code Rule R317-16, Great Salt Lake Mineral Extraction Facility Operator Certification Approval, effective date September 23, 2024 (Appendix A, *UDWQ Rule 317-16, Great Salt Lake Mineral Extraction Facility Operator Certification Approval*).

1.2 Contents

This application includes Sections 2–8 to comply with the requirements of R317-16-4; Sections 9–14 address the requirements of R317-16-5. Cross-references are cited, where appropriate, to avoid duplicating data.

The following subjects are addressed in this submittal in accordance with the rules cited above:

- Contents under R317-16-5 requirements
  - All information required under R317-16-3(4):
    - Project information
    - Withdrawal information
    - Discharge (effluent) information
    - Impacted habitat
    - Monitoring and inspection plan
    - Evidence supporting the operator certification
- Summary of changes made as a result of the Demonstration Plant's operation
- Demonstration Plant's impact on the North Arm of the GSL
- Data and data analysis during the Demonstration Plant's operation
- UPDES Permit No. UT0026280 modification application and Antidegradation Review (ADR)

- Statement that the proposed project will not negatively impact the biota or chemistry of the GSL
- Additional information requested by the UDWQ Director

This revised application is submitted to UDWQ concurrently with a Clean Water Act Section 402 Utah Pollutant Discharge Elimination System (UPDES) permit application (Appendix B, *UPDES Permit #UT0026280 Modification Application*). The Level II ADR (Appendix C, *Level II Antidegradation Review*) was prepared to support the UPDES permit application.

This application is submitted concurrently with the operations application to the Utah Division of Forestry, Fire and State Lands (FFSL) in compliance with R652-21.

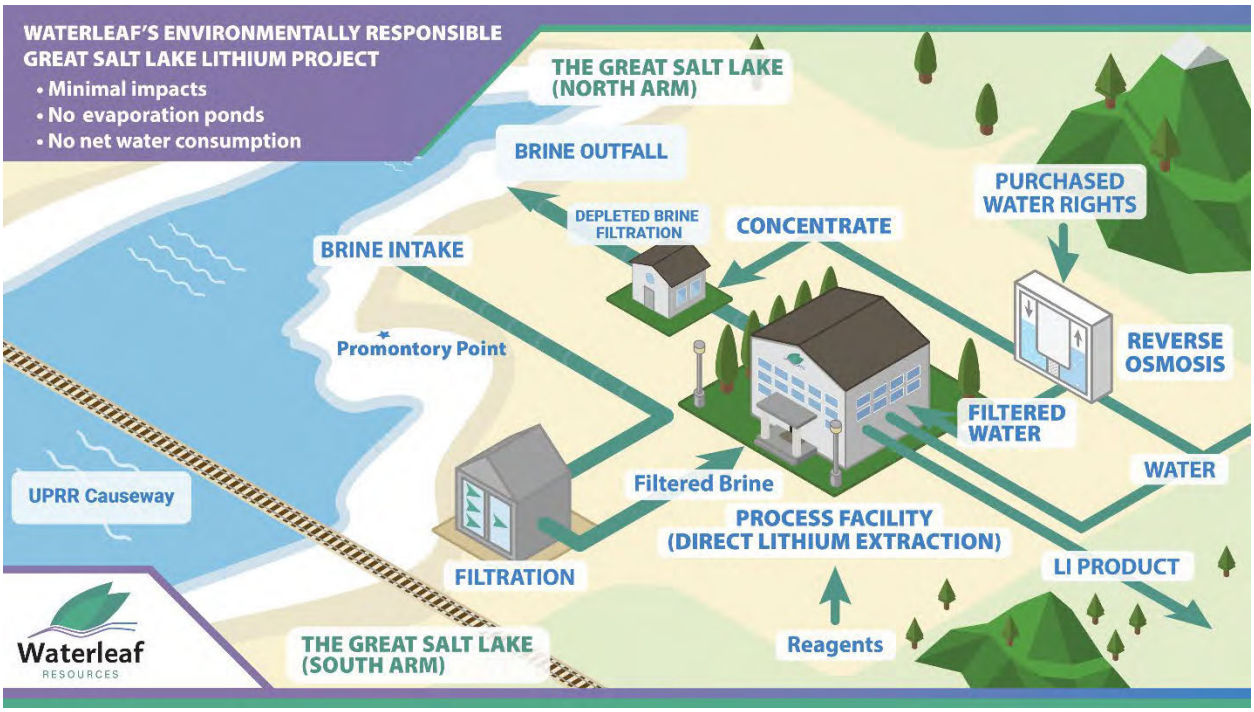
2 Project Information

The proposed Waterleaf Resources Commercial Plant is a lithium extraction plant that will produce battery-grade lithium carbonate from Gunnison Bay (North Arm) brine of the GSL. The Commercial Plant is designed to operate for 20 years. The Commercial Plant will be located adjacent to the North Arm of the GSL on the western slopes of the Promontory Mountains in Box Elder County, Utah (see Section 2.5, *Location of Project*).

The Commercial Plant will divert brine from Gunnison Bay (North Arm) of the GSL and convey it through the IX DLE process units. Externally sourced groundwater will be treated and added to the process as a washing agent. Depleted brine and groundwater will be further treated to remove solids and then discharged to the North Arm. The final product, lithium carbonate, will be produced and transported off site to customers (see Figure 1).

Waterleaf Resources operated a Demonstration Plant from February through August 2025 to validate its technology. Discharges to the North Arm and operation of the Demonstration Plant were authorized by UPDES Permit No. UT0026280 (UDWQ 2025b) and Certification Approval by Rule – Feasibility Assessment (R317-16), respectively. The data and information gathered during operation of the Demonstration Plant supports the Commercial Plant's discharge and operation permitting. The *Final Monitoring Report*, which summarizes the compliance water chemistry monitoring results that were obtained and reported during operation of the Demonstration Plant (Appendix D, *Final Monitoring Report*). In addition to compliance monitoring results, data gathered during a Waterleaf Resources Demonstration Plant Biota Study (Baxter 2025) are also included in the *Final Monitoring Report*.

Figure 1. Commercial Plant Facility Plan



2.1 Lithium Extraction Process

The Commercial Plant will process GSL North Arm brine through a combination of proprietary and conventional process units to produce lithium carbonate. Lithium-depleted brine will be discharged to the North Arm of the GSL. The Commercial Plant will use the same processes for IX DLE and filtration as the Demonstration Plant.

The Commercial Plant will be a new facility with infrastructure, and its process equipment will be bigger and more robust than the Demonstration Plant's. For example, the portable surge tanks that were used pre- and post-process for the Demonstration Plant will be replaced with lined ponds. In addition, Waterleaf Resources has determined that some anticipated operational processes will now be based on influent characteristics; for example, adjusting the pH of the influent brine was not required during the entire operation of the Demonstration Plant. Therefore, Waterleaf Resources anticipates that, based on influent flow monitoring results, pH will be adjusted only as needed to keep the discharge within the water quality standard range.

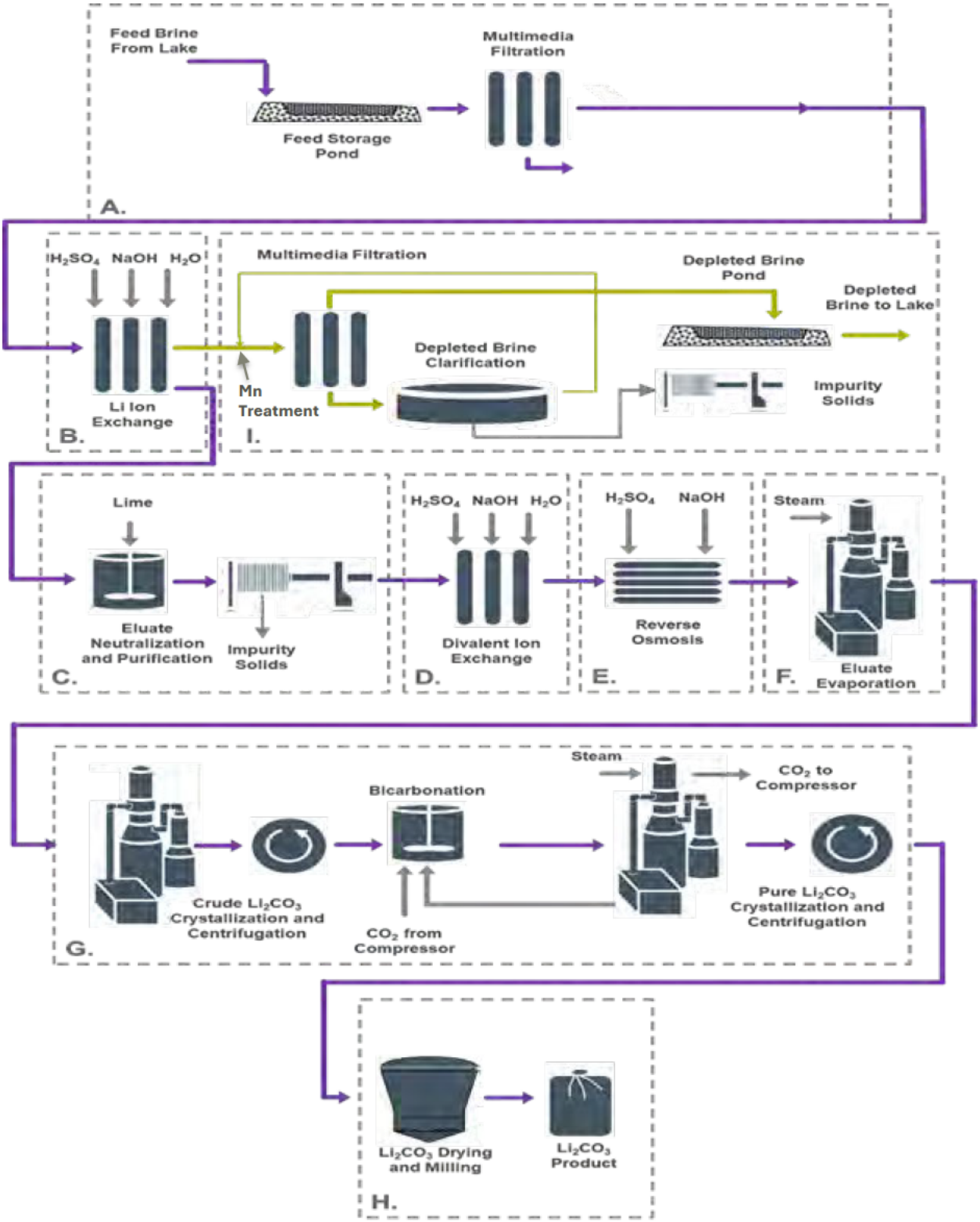
Below is a summary of the Commercial Plant's process steps, followed by a schematic diagram (see Figure 2).

- **Intake.** GSL North Arm brine will be pumped from the GSL to a lined influent (feed) brine surge pond. The intake pipeline will extend from the Commercial Plant to the GSL meander line and then be located on the lakebed to a lakebed elevation of about 4,185 feet mean sea level (msl) (NGVD 1929) within the FFSL easement. The intake system will be driven by a skid-mounted suction pump station, which will have a design influent flow rate of 11,300 gallons per minute (gpm) located near the open

water shoreline. Influent flow and water quality monitoring will occur prior to the influent brine surge pond.

- **Filtration.** Influent brine will be piped from the feed brine surge pond and filtered through a multimedia filter (MMF) to remove suspended solids.
- **Ion Exchange.** After filtration, the influent brine will be sent to the IX DLE equipment, where lithium will be selectively exchanged with a hydrogen ion in the IX media (IXM), resulting in lithium-depleted brine. Groundwater (externally sourced water treated by reverse osmosis [RO]) will be used as a washing agent in the extraction process. The IXM is regenerated, producing eluate (lithium-rich water) that will be further purified and concentrated to produce lithium carbonate, the final commercial product. The eluate flow will not be discharged to the North Arm of the GSL.
- **Filtration and Clarification.** The depleted brine will be treated to reduce manganese levels to be comparable to North Arm background levels, and pH adjusted, prior to filtration. The depleted brine, including groundwater, the RO concentrate, and the recirculated wash water will be conveyed to an MMF and then into a depleted brine pond. Residual solids will be managed and disposed of off site. Depleted brine will be pumped from the depleted brine pond to the outfall infrastructure.
- **Discharge.** The outfall pipeline will extend from the depleted brine pond to the North Arm open water to the GSL lakebed to an elevation of about 4,190 feet msl within the FFSL easement. Waterleaf Resources anticipates a design discharge rate of 11,450 gpm (when accounting for depleted brine plus the addition of groundwater). Discharge flow and water quality monitoring will occur in the discharge pipeline.

Figure 2. Commercial Plant Process Schematic



2.2 Commercial Plant Mass Balance

Mass balance of principal GSL salinity constituents, including all target and nontarget minerals across the principal mineral processing steps (R317-16-3(4)(a)(i)).

The annual mass balance of the principal GSL salinity constituents—lithium (target mineral) and salts (nontarget mineral)—is provided in Table 1 based on the Commercial Plant's annual maximum design influent brine volume of 18.156 thousand acre-feet (kaf) and an annual maximum design discharge flow of 18.356 kaf. In addition to salinity constituents, Table 1 provides the Commercial Plant's annual mass balance for all constituents as requested by UDWQ in its completeness review.

The Commercial Plant's annual mass balance (Table 1) is calculated using the flow-weighted average influent and discharge concentrations reported during the designated optimal period (design information period) of the Demonstration Plant's operation (weeks 16–28) and designated by footnote (a). For further discussion of the flow-weighted optimal period analysis, see Section 4.1.2, *Chemical Characteristics*. For the salt constituents (calcium, chloride, magnesium, potassium, sodium, and sulfate), chromium, copper, iron, manganese, nickel, and lithium, the flow-weighted average discharge concentrations are replaced with expected discharge concentrations due to process changes added to the Commercial Plant (RO, carbon steel tank replacement, manganese treatment, and recirculation). For further discussion of these values, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*. These values are identified by footnote (c) in Table 1.

Table 1. Commercial Plant Annual Mass Balance

Constituent	Influent		Discharge		Mass Difference[b] (lb/year)
	Average Concentration[a] (mg/L)	Mass (lb/18.156 kafy)	Average Concentration[a] (mg/L)	Mass (lb/18.356 kafy)	
Alkalinity	572.6	28,227,480	294.6	14,688,150	−13,539,330
Aluminum	1.65	81,360	1.49	74,270	−7090
Arsenic	0.51	25,230	0.36	17,830	−7,400
Barium	0.20	10,050	0.18	9,040	−1,010
Bicarbonate	572.6	28,227,480	294.6	14,688,150	−13,539,330
BOD	5.13	252,910	7.42	370,120	+117,210
Boron	61.97	3,055,640	59.50	2,966,100	−89,540
Bromide	177.9	8,772,030	166.2	8,286,030	−486,000
Cadmium,	ND (<0.0012)	NA	ND (<0.0012)	NA	NA
Calcium	308.64	15,218,670	300.2[c]	14,955,590	−263,080
Carbonate	ND (<0.2)	NA	ND (<0.2)	NA	NA
COD	1,516.89	74,797,200	1,096.63	54,670,150	−20,127,050
Chloride	183,942[c]	9,070,095,344	182,006[c]	9,073,493,411	+3,398,067
Chromium	0.10	5,600	0.10[c]	5,600	0.0
Copper	0.035	1,740	0.035[c]	1,740	0.0

(*Continued on next page*)

Table 1. Commercial Plant Annual Mass Balance

Constituent	Influent		Discharge		Mass Difference[b] (lb/year)
	Average Concentration[a] (mg/L)	Mass (lb/18.156 kafy)	Average Concentration[a] (mg/L)	Mass (lb/18.356 kafy)	
Cyanide	ND (<0.022)	NA	ND (<0.022)	NA	NA
Hardness	60,996.14	3,007,702,390	58,874.2	2,935,038,470	−72,663,920
Hydroxide	ND (<0.2)	NA	ND (<0.2)	NA	NA
Iron	0.57[d]	28,110	0.567[c]	28,240	+130
Lead	ND (<0.0087)	NA	ND (<0.0087)	NA	NA
Lithium	68.0	3,353,030	14.2[c]	707,710	−2,645,320
Magnesium	14,633	721,573,325	14,462[c]	720,969,977	−603,348
Manganese	0.036	1,790	0.036[c]	1,810	+20.0
Mercury	39.35 ng/L	1.95	30.48 ng/L	1.53	−0.42
Molybdenum	0.14	7,100	0.13	6,330	−770
Nickel	0.035	1,740	0.035[c]	1,740	0.0
Nitrate	ND (<6.64)	NA	ND (<6.64)	NA	NA
Nitrite	ND (<0.01)	NA	ND (<0.01)	NA	NA
Oil and grease	ND (<5.0)	NA	ND (<5.0)	NA	NA
Potassium	8,720.58	430,007,540	8,626[c]	429,692,920	−314,620
Selenium	0.54	26,690	0.53	26,370	−320
Silica	6.06	298,870	7.01	349,500	+50,630
Silicon	2.69	132,440	3.15	156,870	+24,430
Silver	ND (<0.008)	NA	ND (<0.008)	NA	NA
Sodium	98,464.32	4,855,226,330	97,742[c]	4,873,099,470	+17,873,140
Sulfate	26,975.6	1,330,155,160	27,202[c]	1,354,737,510	+24,582,350
TDS	333,938.22[c]	16,466,326,334	330,782[c]	16,491,028,630	+24,702,296
TSS	38.19	1,883,030	35.3	1,761,540	−121,490
Zinc	ND (<0.5)	NA	ND (<0.5)	NA	NA

Definitions: BOD = biological oxygen demand; COD = chemical oxygen demand; kafy = thousand acre-feet per year; lb = pounds; MDL = minimum detection limit; mg/L = milligrams per liter; NA = not analyzed (influent and discharge concentrations are nondetect); ND = nondetect (not detected above MDL); TDS = total dissolved solids; TSS = total suspended solids

[a] Average influent and discharge concentration based on flow-weighted concentrations during the Demonstration Plant's optimal period, weeks 16–28. See Section 4.1.2, *Chemical Characteristics*.

[b] Annual mass change is calculated using maximum influent and discharge design flow rates.

[c] Anticipated average concentrations based on facility mass balance analyses. See Section 4.1.2, *Chemical Characteristics*.

[d] MDL for influent concentration was used to calculate loading.

2.3 Commercial Plant Total Water Balance

Water balance at design flow, low-flow conditions, and across a range of lake levels (R317-16-3(4)(a)(ii)).

Total water is defined as sum of the brine water and externally sourced water (R317-16-2(21)). Since the November 2025 application, Waterleaf has revised the Commercial Plant water balance to accurately reflect the Commercial Plant operations. The Commercial Plant's total water balance is provided below based on a maximum design influent brine rate of 11,256 gpm or 16.21 million gallons per day (mgd) during operation. Groundwater will be added to the process and is accounted for in the total water balance.

- Maximum design North Arm influent brine rate: 16.21 mgd (11,256 gpm) (18,156 afy)
- Maximum design groundwater flow added: 0.18 mgd (124 gpm) (200 afy)
- Maximum design discharge rate to North Arm: 16.39 mgd (11,380 gpm) (18,356 afy)

Based on U.S. Geological Survey bathymetric and topographic data, the North Arm's volumes at water surface elevations (WSE) of 4,190 and 4,198 feet (NGVD 1929) are 2.7 million acre-feet (maf) and 4.9 maf, respectively (USGS 2006). As of June 25, 2025, the North Arm's WSE was about 4,192.1 feet (NGVD 1929), and the North Arm had a volume of 3,241,855 acre-feet (af) (USGS 2025).

Waterleaf Resources anticipates a WSE range of 4,188 to 4,198 feet (NGVD 1929) during the life of the Commercial Plant because the North Arm's WSE varies with hydrologic conditions and state management actions.

2.4 Generated Waste

Generated waste containment and disposal infrastructure descriptions, including residuals and disposal methods (R317-16-3(4)(a)(iii)).

Commercial Plant residual solids from the MMF and solids management processes will land-transported and disposed of at a permitted landfill. Miscellaneous municipal waste generated will be transported and disposed of at a permitted landfill. Sanitary waste will be generated, held in tanks, and periodically transported off site for disposal.

2.5 Location of Project

Location and acreage of lakebed used for project facilities during the feasibility assessment and operations phases, if different (R317-16-3(4)(a)(iv)).

The Commercial Plant will be located on a private land lease above the meander line and to the east of the North Arm and FFSL easement. The location of the lakebed easement and private lease land is the same as the Demonstration Plant, namely the west side of the Promontory Mountains in Box Elder County, Utah. The latitude and longitude of the center of the plant site are 41° 27′ 46.56″ N and 112° 41′ 35.18″ W, respectively.

The Commercial Plant will use an easement or right of entry from FFSL totaling about 7.3 acres of the GSL lakebed (below the meander line). This area will be used to place the intake and outfall infrastructure.

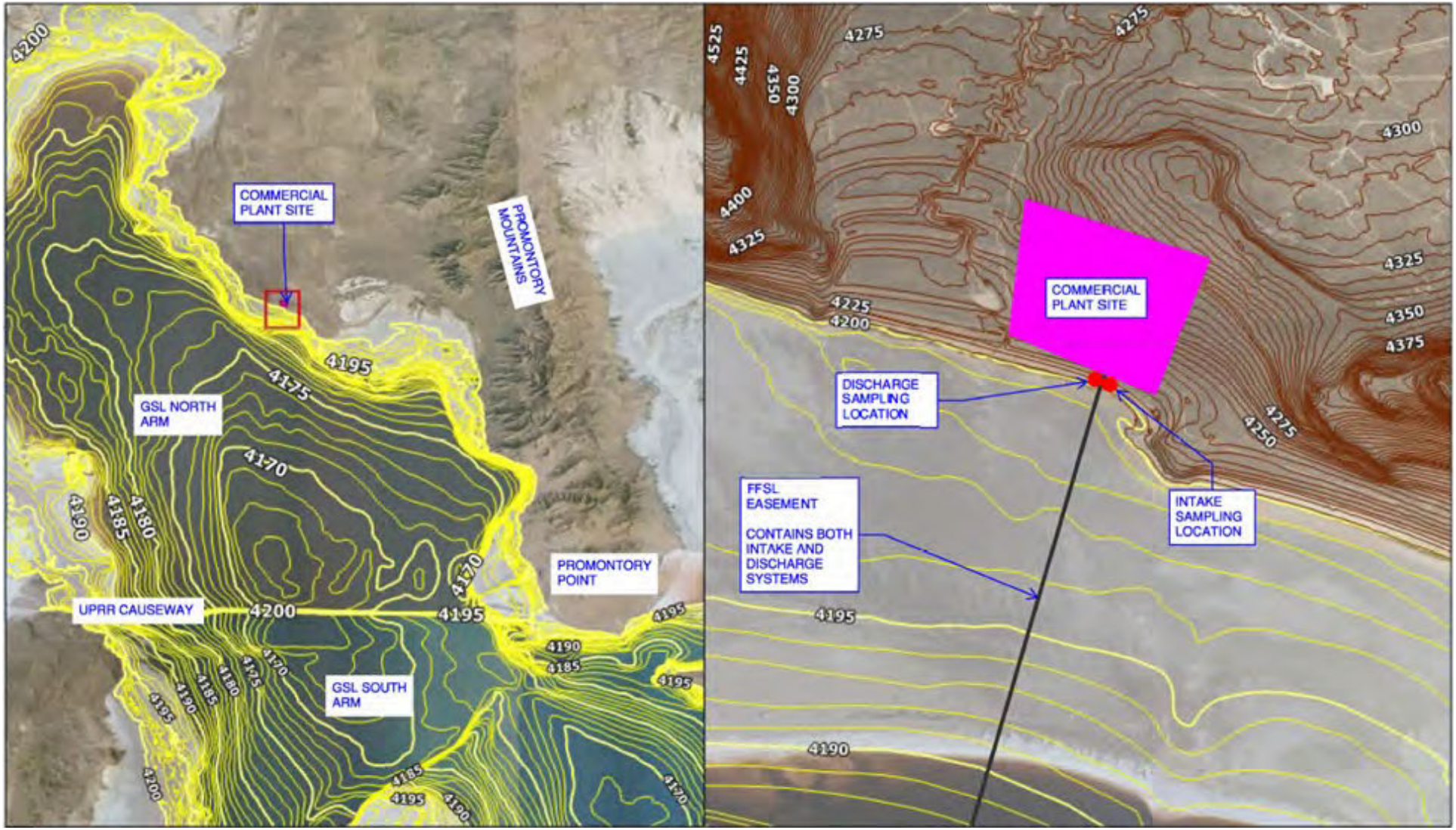
For further information about the location of the Commercial Plant, see Section 3.1.1, *Gunnison Bay*, and Figure 3.

2.6 Supporting Documentation

Supporting documentation submitted to federal agencies, including maps, plans, specifications, project dimensions, copies of associated federal applications, biological and engineering studies, environmental assessment or environmental impact statements, or alternative analyses, as applicable (R317-16-3(4)(a)(v)).

The Commercial Plant's infrastructure that will be placed on the GSL lakebed requires Nationwide Permit (NWP) 58 authorization from the U.S. Army Corps of Engineers and a State Water Quality 401 Certification. Waterleaf Resources applied for and was issued the required permits. The 404 authorization and 401 certification are included in Appendix E, *Federal and State Supporting Permits and Certifications*.

Figure 3. Location and Monitoring Map



2.7 Estimated Water and Brine Depletion

Estimated water and brine depletions (R317-16-3(4)(a)(vi)).

The Commercial Plant will not deplete North Arm brine based on the water balance provided in Section 2.3, *Commercial Plant Mass Balance*. *Brine depletion* is defined as the volume of brine water consumed through processing and operations, calculated by subtracting the volume of returned water from the volume of brine water diverted from the GSL (R317-16-2(3) and (4)).

The Commercial Plant will use groundwater (externally sourced water) in the IX DLE process, as accounted for in the total water balance, as described in Section 2.3, *Commercial Plant Mass Balance*. The groundwater will be combined with the brine and discharged to the North Arm. Therefore, no water depletion is anticipated.

This assertion of no brine and water depletion is supported by the final water balance of the Demonstration Plant in which the influent brine volume (3.35 af) is compared to the discharge volume (3.48 af) to show no depletion (see Section 2.3, *Commercial Plant Total Water Balance*). Although Waterleaf Resources' review of the Demonstration Plant data recognizes about a 4% loss (influent and groundwater volumes subtracted from discharge volume), this loss is unique to the operation of the Demonstration Plant. The Demonstration Plant produced a liquid product, lithium sulfate; the Commercial Plant will produce a powder, lithium carbonate. This process loss is not anticipated to occur during the Commercial Plant's operation; for further discussion, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*.

2.8 Rate of Extraction

Plan to determine rate of extraction for the targeted and nontargeted minerals or elements and estimated rate of depletion of the targeted and nontargeted minerals or elements of the GSL (R317-16-3(4)(a)(vii)).

2.8.1 Targeted Mineral

The Commercial Plant will target lithium as the mineral to be extracted, processed, and transported off site.

The plan for determining the rate of extraction for lithium is to monitor the Commercial Plant's influent and discharge flows monthly for concentrations of lithium and other required constituents per UPDES requirements and the GSL Mineral Extraction Facility Operator Certification. From these data, annual mass loading will calculated.

Because the lithium concentration in North Arm brine varies throughout the year, Waterleaf Resources proposes that a comparative (discharge compared to influent) lithium removal (extraction) rate and annual mass loading calculation is an appropriate method to determine how much lithium is removed from North Arm brine. Based on these concentrations, the estimated average rate of depletion for lithium is 80% of the influent concentration (see Table 1).

2.8.2 Nontargeted Minerals

Waterleaf Resources anticipates that the Commercial Plant may remove small amounts of salt constituents. Salts may be removed from the North Arm bine through filtration processes and precipitation in the raw brine and depleted brine ponds. Waterleaf Resources anticipates that, during the Commercial Plant's operation, salts may precipitate in the raw brine pond and depleted brine ponds. The precipitated salts will be periodically removed to maintain pond capacity. The amount of salt that may precipitate in the raw brine pond depends on air temperatures, lake brine temperatures, and holding times and may be extremely variable.

The plan for determining the rate of salt depletion is to monitor the Commercial Plant's influent and discharge flows for flow rates and salt concentrations (calcium, chloride, magnesium, potassium, sodium, and sulfate) as required by UPDES and the GSL Mineral Extraction Facility Operation Certification. From these data, mass loading will be calculated and reported.

Salt concentrations in North Arm brine will vary throughout the year. Waterleaf Resources proposes that a comparative (discharge compared to influent) analysis and calculation of the annual mass load is an appropriate method to determine how much salt is removed or added from North Arm brine.

3 Withdrawal Information

The Commercial Plant will source and discharge brine from and to Gunnison Bay (the North Arm of the GSL). In addition to using brine from Gunnison Bay, groundwater will be added during the lithium extraction process. Information about the following source waters (Gunnison Bay and groundwater) is provided below.

3.1 Source Waters

Names and locations of the brine water and externally sourced water where withdrawals will occur, including the precise latitude and longitude to the fifth decimal place in decimal degrees and to the tenth of a degree in degrees-minutes-seconds notation (R317-16-3(4)(b)(i)).

The following information provides the names and locations of the brine water and externally sourced water from which withdrawals will occur. Latitude and longitude coordinates are provided.

3.1.1 Gunnison Bay

The Commercial Plant will withdraw brine from Gunnison Bay (the North Arm of the GSL). The intake infrastructure will be located in the same FFSL GSL lakebed area as the Demonstration Plant, though it will extend farther into the open water, terminating at about lakebed elevation 4,185 feet msl.

The latitude and longitude of the proposed point of diversion from Gunnison Bay are 41° 26′ 41.48393″ N and 112° 42′ 25.05773″ W, respectively.

3.1.2 Groundwater

Externally sourced water (groundwater) will be withdrawn from an existing private well and used during operation. The groundwater well is located about 3 miles north of the proposed location of the Commercial Plant. The groundwater has been sampled and analyzed, and results of the laboratory analyses are provided in the UPDES modification application (Appendix B).

The latitude and longitude of the groundwater well are 41° 27′ 58.52″ N and 112° 38′ 48.87″ W, respectively.

3.2 Source Water Flow Rates

Detailed information on the quantity of brine water and externally sourced water withdrawals (R317-16-3(4)(b)(ii)).

3.2.1 Gunnison Bay

The proposed influent brine withdrawal will occur from Gunnison Bay (the North Arm of the GSL).

The maximum design flow rate of brine to be withdrawn from Gunnison Bay will be 11,256 gpm, or 16.21 mgd, while the Commercial Plant is operating.

Flow rates could vary due to operational and maintenance requirements. The design flow rate could increase due to changes in GSL North Arm brine lithium concentrations or market conditions. Increases in discharge flow rates will require UPDES permit modifications, if they exceed 20 mgd.

3.2.2 Groundwater

Groundwater will be withdrawn, conveyed to the Commercial Plant, treated by an RO water treatment system, and combined with influent brine during the DLE process. The concentrate from the RO system will be combined with the depleted brine flow, filtered, and then discharged to the North Arm.

The maximum design flow rate of groundwater to be withdrawn will be 124 gpm, or 0.18 mgd.

3.3 Project Duration

Detailed information on the timing of the withdrawals (R317-16-3(4)(b)(iii)).

Waterleaf Resources anticipates that the Commercial Plant will operate for 20 years. The Commercial Plant will withdraw and discharge North Arm brine 24 hours a day, 7 days a week, all year long. Routine maintenance will temporarily slow or stop the withdrawal and discharge of brine.

3.4 Project Plan to Measure Water

Plan to measure the amount of brine water, externally sourced water, and returned water (R317-16-3(4)(b)(iv)).

Waterleaf Resources plan to install and operate continuous flow monitoring meters on the intake and outfall infrastructure. Like flow monitoring of the Demonstration Plant, flow meters will continuously monitor and record flow rates. The influent flow meter will be installed just upstream of the influent brine surge pond; the discharge flow meter will be installed downstream of the depleted brine pond.

The externally sourced groundwater flow will be measured using a flowmeter located at the property line.

4 Discharge Information

The Commercial Plant will intake brine from and discharge effluent to Gunnison Bay (North Arm) of the GSL. Gunnison Bay is classified as 5B waters of the state and is protected for beneficial uses of infrequent primary and secondary contact recreation, waterfowl, shore birds, and other water-oriented wildlife including their necessary food chain (R317-2-6.5). No numeric water quality standards have been developed for Gunnison Bay; state narrative standards apply.

The North Arm (Gunnison Bay) is a hypersaline bay of the GSL, with salinity over 25% (as compared to the other bays of the GSL with salinity ranges of 5% to 15%) (FFSL 2013). Inflows to the North Arm are currently being managed by FFSL through modifications of the GSL management berm to meet overall GSL management objectives. Due to management actions and the naturally occurring variation in the hydrologic cycles, the physical, chemical, and biological characteristics of the North Arm fluctuate. The Commercial Plant will withdraw North Arm brine over seasonal, annual, and decadal variations, resulting in comparable variations in the discharges back to the North Arm.

This section describes the influent and discharge physical and chemical characteristics of the anticipated constituents based on results compiled during the operation of the Demonstration Plant and from Waterleaf Resources mass analyses using Commercial Plant design targets.

4.1 Influent and Discharge Characteristics

Characterization of the physical, chemical, biological, thermal, and other pertinent properties of the discharge; at a minimum: pH, total alkalinity, total dissolved solids, total suspended solids, sulfate, nitrate, nitrite, carbonate, bicarbonate, chloride, hydroxide, chemical oxygen demand, biological oxygen demand, silica, zinc, magnesium, sodium, calcium, potassium, boron, bromide, aluminum, iron, and silicon; range of temperatures

expected in effluent; density range of effluent to be discharged; and quantity of foreign materials that would be discharged to the GSL on an annual basis (R317-16-3(4)(c)(i)).

Waterleaf Resources anticipates that the average influent characteristics for the Commercial Plant will be similar to the flow-weighted average influent characteristics reported during the Demonstration Plant's optimal period of operation. The effects of weather on the North Arm intake brine, including temperature, viscosity, and turbidity, have been taken into consideration during the Commercial Plant's design process so that production targets can be achieved throughout the year. The Commercial Plant's anticipated average discharge characteristics will be comparable to the flow-weighted average discharge characteristics reported during the Demonstration Plant's optimal period of operation, except for salt constituents, chromium, copper, iron, manganese, nickel, and lithium, due to facility scale-up and additional processes (see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*). This section describes the physical, chemical, and biological characteristics of the Commercial Plant's influent and discharge flows.

UPDES physical and chemical compliance monitoring during operation of the Demonstration Plant was conducted weekly during the plant's operation from February through August 2025. Biological (whole effluent toxicity) testing was not required, as North Arm brine will not support the freshwater water aquatic organisms required in the protocol. Three biota monitoring events were conducted during the Demonstration Plant's operation. The results from these monitoring efforts are reviewed in Section 5.1.2, *North Arm GSL Biota*, and detailed in the *Final Monitoring Report* (Appendix D).

Note that, during the Demonstration Plant's operation in 2025, the North Arm WSE was reported to vary from 4,191.9 feet in February to a peak WSE of 4,192.8 feet in April to a July WSE of 4,192.1 feet (NGVD 1929) (USGS 2025).

No foreign materials are anticipated to discharged during the operation of the Commercial Plant. Waterleaf Resources might periodically descale the Commercial Plant's infrastructure to remove any precipitated salt accumulations; descaling procedures will be conducted with groundwater and will not involve any foreign materials.

4.1.1 Physical Characteristics

Physical monitoring during the Demonstration Plant's operation consisted of weekly observations and field monitoring of influent and discharge flows. Consistent with state narrative standards, observations were made for unnatural deposits; floating debris, oil, scum, or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life.

Visual observation results for these characteristics are described in the *Final Monitoring Report* (Appendix D) in Section 3.1, *Visual Observation Results*. In summary, no floating debris, oil, scum, or odor were observed in the influent and discharge samples. Taste was not evaluated. The color of the influent and discharge samples differed over the 7-month operation, with clear samples in the winter and increasing pink color through the spring and summer months, correlating to increased biota presence.

Visual observations during weeks 1–6 of operation (start-up phase) did identify rust flakes in the discharge flow. Anomalies associated with start-up (increased chemical concentrations and rust flakes) are discussed in the *Final Monitoring Report* in Section 3.1, *Visual Observation Results*; Section 3.3, *Metals Discussion*; and Table 6, *Metal Concentration Data Comparison of Start-up and Regular Operations*. Rust flakes were not observed during weeks 7–28 of the Demonstration Plant's operation.

Field monitoring results for density, dissolved oxygen, pH, and temperature are summarized with discussion and graphs in the *Final Monitoring Report* in Section 3.4, *Field Chemistry Results*.

Based on the observations during the operation of the Demonstration Plant, Waterleaf Resources anticipates that Commercial Plant's discharges will meet narrative standards and will:

- Not have any floating debris, oil, scum, or odor
- Vary in color, from clear to pink, based on the seasonal presence of algae
- Not have any rust flakes or visible signs of corrosion

4.1.2 Chemical Characteristics

Waterleaf Resources anticipates that the chemical characteristics of the Commercial Plant's influent and discharge will be comparable to the concentrations listed in Table 1. The basis for the concentrations shown in Table 1 is dual: (1) the flow-weighted average concentrations during the Demonstration Plant's optimal period of operation and (2) anticipated average discharge concentrations based on Commercial Plant mass balance analyses.

Influent concentrations shown in Table 1 are based on the flow-weighted, optimal-period analysis of the Demonstration Plant data.

Discharge concentrations, shown in Table 1 are based on the flow-weighted, optimal-period analysis of the Demonstration Plant for most constituents (designated with footnote (a) in the table. For a limited subset of constituents, discharge concentrations shown in Table 1 are based on anticipated concentrations from the Commercial facility mass balance analysis (designated with footnote (c)).

These two analytical methods used to determine the Commercial Plant's influent and discharge concentrations and annual mass loadings are described further below.

Flow-weighted, Optimal-period Analysis

The Commercial Plant's influent and discharge concentrations, as shown in Table 1, are derived from a flow-weighted, optimal-period analysis of the Demonstration Plant data. Waterleaf Resources has determined that the Demonstration Plant's operation during weeks 16–28 is the period when the plant's activities (operation and production) were most consistent (see Section 10, *Data and Data Analyses during Demonstration Plant Operation*). Weeks 16–28 include the FFSL performance run period and extend to the

end of operation; these weeks are concluded to be the optimal period of the Demonstration Plant's operation.

Waterleaf selected flow-weighted average concentrations during the optimal period of Demonstration Plant operation, as the primary analytical basis for estimating Commercial Plant discharge concentrations and loads (Table 1). This method most accurately represents the true mass of constituents discharged from the Demonstration Plant to the receiving waters over time under optimal operating conditions.

The calculation used to determine flow-weighted, optimal-period concentrations is shown below.

$$C_{\text{flow-weighted}} = \frac{(C_{16} * V_{16} + C_{17} * V_{17} + \ldots C_{28} * V_{28})}{V_{16} + V_{17} + \ldots V_{28}}$$

Where: C_n = Concentration of constituent from weekly monitoring
Vn = Weekly brine volume

During the 26-week Demonstration Plant operations, influent and effluent flow rates varied due to changes in operational mode, testing conditions, and process optimization. Under such conditions, simple arithmetic averaging can bias results by giving equal weight to low-flow and high-flow samples, even though high-flow periods contribute a disproportionate share of the total discharged mass. Waterleaf determined that week's 16 thru 28 of Demonstration Plant operation represented the "optimal period," in which process optimization, testing conditions and equipment were the most consistent. Flow-weighted averaging, over the optimal period, captures the most consistent influent and discharge concentrations, with the corresponding flow rate, thereby directly linking concentration data to actual mass loading.

Use of flow-weighted concentration averages over the optimal period provides several important benefits for the calculation of the Commercial Plant concentrations and annual loads:

- Accurate Load Representation
  Flow-weighted concentrations directly reflect total constituent mass discharged over time, which is the key metric for evaluating potential impacts to Great Salt Lake water chemistry and biota.
- Improved Comparability Across Operating Conditions
  This method normalizes concentration data across variable flows, allowing for meaningful comparison between pilot-scale operations, optimized performance periods, and projected commercial-scale operations.
- Alignment with Regulatory Impact Assessment
  DWQ's evaluation of long-term impacts is inherently load-based. Flow-weighted averages provide a more appropriate basis for assessing cumulative and chronic effects than simple averages.
- Conservative and Defensible Projections
  By emphasizing periods of higher discharge volume, flow-weighted averages

reduce the risk of underestimating constituent loads and provide a conservative basis for commercial-scale projections.

For the Commercial Plant application, flow-weighted concentrations derived from the Demonstration Plant optimized performance period were selected as the most representative dataset because they reflect stable operations under conditions most like anticipated commercial performance.

In summary, the use of flow-weighted averages, over the optimal period, provides a technically robust, transparent, and environmentally protective basis for estimating discharge concentrations loads, and allows Waterleaf and DWQ to more effectively evaluate potential impacts.

Commercial Facility Mass Balance Analyses

For several constituents (chromium, copper, iron, lithium, manganese, nickel, and salt constituents), the Commercial Plant's discharge concentrations will vary from the Demonstration Plant's flow-weighted average discharge concentrations during the optimal period, due to process changes, equipment scale-up, and manganese treatment. These process changes are detailed in Section 8.

These constituents' average discharge concentrations, shown in Table 1 (designated by footnote (c), are based on the Waterleaf Resources Commercial facility mass balance analyses.

The Commercial Plant will include several processes to optimize performance that were not practical to incorporate at the Demonstration Plant scale. Due to these processes, the performance of most unit operations within the plant will affect all other unit operations. The commercial facility mass balance is the tool used to predict how each of these changes will affect each other and the expected discharge composition while still adhering to the setpoints and collected data from the Demonstration Plant.

The commercial facility mass balance is detailed in Appendix J, *Commercial Facility Mass Balance*, and considers all process interactions. Below are descriptions of the predicted Commercial Plant discharge concentrations and the basis for that concentration.

- The Commercial Plant's average discharge concentrations for manganese will be lower than the Demonstration Plant's flow-weighted average discharge concentrations. The depleted brine will be treated to reduce manganese concentrations in the depleted brine after passing through the IX process and prior to filtration. As a result, the Commercial Plant's average discharge concentration will be comparable to its influent concentrations. The discharge concentration for manganese was determined based on testing and facility mass balance analyses and is shown in Table 1. For discharge concentration comparisons of the Commercial Plant to the Demonstration Plant, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation.*
- Discharge metal concentrations (chromium, copper, iron, and nickel) associated with carbon steel were reported during the Demonstration Plant's operation to spike due to the use of carbon steel surge tanks and filter media tanks. These carbon steel

tanks and filter media tanks will be replaced with high-density polyethylene (HDPE)–lined ponds and concrete basins, respectively, for the Commercial Plant's operation, to accommodate higher process flows and higher capacity requirements. As a result of eliminating the carbon steel tanks, the Commercial Plant's average discharge concentrations of chromium, copper, iron, and nickel will decrease when compared to Demonstration Plant data. The discharge concentrations are based on commercial-scale testing and facility mass balance analyses and are shown in Table 1. For discharge concentration comparisons of the Commercial Plant to the Demonstration Plant, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*.

- The Commercial Plant's average discharge concentrations of salt constituents (calcium, chloride, magnesium, potassium, sodium, sulfate) and total dissolved solids (TDS) will vary from the Demonstration Plant's flow-weighted average discharge concentrations due to three factors: (1) the upsizing of the groundwater RO treatment system, (2) the addition of recycle and recirculation systems, and (3) treatment for manganese reduction. The concentrate from the RO system will be added to the depleted brine discharge flow, filtered, and then discharged to the North Arm (see Figure 1). The recycle and recirculation systems will also alter the discharge concentrations of salt constituents and TDS when compared to the Demonstration Plant data. The manganese treatment will occur prior to filtrations (see Figure 2) and will affect the discharge concentrations of salt constituents and TDS. Waterleaf Resources anticipates that these three processes will contribute to the Commercial Plant's discharge concentrations of salt constituents (calcium, chloride, magnesium, potassium, sodium, and sulfate) and TDS from the Demonstration Plant's optimal period flow-weighted average salt discharge concentrations. The discharge concentrations for these constituents are based on commercial facility mass balance analyses and are shown in Table 1. For concentration comparisons, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*.
- The Commercial Plant's average discharge concentrations for lithium will be lower than the Demonstration Plant's flow-weighted average discharge concentrations due to facility scale-up and additional processes that will be added to the Commercial Plant. These process changes include recirculation and recycle systems that will result in lower average concentrations of lithium in the discharge. The Commercial Plant's average lithium discharge concentrations are based on commercial-scale testing and facility mass balance analyses and are shown in Table 1. For concentration comparisons, see Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*.

In summary, based on compliance monitoring during the Demonstration Plant's optimal period of operation and the anticipated Commercial Plant operation, Waterleaf Resources expects that the Commercial Plant's influent and discharge flow characteristics will be comparable to the average flow-weighted concentrations shown in Table 1 for most constituents. For a subset of constituents, discharge flow characteristics will be comparable to concentrations based on facility mass balance analyses and shown in Table 1.

External Influences on Commercial Plant Concentrations

Waterleaf Resources does acknowledge that there are outside independent influences which may affect the Commercial Plant's influent and discharge concentrations. These independent influences include the following:

- Influent characteristics will fluctuate as the North Arm WSE, volume, and salinity vary in response to natural hydrologic conditions and state management actions. This variation of North Arm characteristics is expected seasonally and annually, and surface flow to the GSL and North Arm will fluctuate.
- Laboratory analysis of the North Arm brine will have the same challenges as were experienced during the Demonstration Plant's compliance monitoring analyses. Waterleaf Resources anticipates that the same error and uncertainty considerations will apply to compliance monitoring of the Commercial Plant's influent and discharge flows.

4.2 Seasonal Influences on Commercial Plant Operation

Waterleaf Resources anticipates that, during operation of the Commercial Plant, annual seasonal fluctuations in temperature, precipitation, and wind events will have short-term effects on the plant's operation. These anticipated effects are described below.

4.2.1 Temperature Influences

Air and raw brine temperatures of the North Arm vary seasonally. The most significant effects of these temporal variations on the Commercial Plant's operation are associated with the precipitation of salts and with activities conducted to mitigate the precipitation of these salts.

During the coldest winter months, mirabilite (Glauber salt), a sodium sulfate mineral, may precipitate in the Commercial Plant's intake and discharge infrastructure, in raw brine and depleted ponds, and in other processes. During the warm summer months, salt may precipitate in the Commercial Plant's intake and discharge infrastructure, in raw brine and depleted ponds, and in other processes. The amount of salt precipitated during these salt precipitation events is difficult to predict; however, Waterleaf Resources anticipates and plans to remove and dispose of accumulated salts periodically throughout the year.

4.2.2 Precipitation Influences

Precipitation that falls on Gunnison Bay can be in the form of rain or snow. Because precipitation is fresh water, there may be temporal conditions in which a thin layer of fresh water exists atop the heavier brine. This presence of both fresh water and brine may occur in the raw brine and depleted brine ponds and may cause a brief drop in average salinity in raw brine intake and depleted brine concentrations, respectively.

Waterleaf Resources does not anticipate that precipitation that falls on Gunnison Bay will affect the withdrawal of raw brine, because the intake pipe system will be submerged to withdraw brine from below the water surface.

Overall, precipitation events may have brief effects on the Commercial Plant's operation, but no mitigation or changes to operations are anticipated.

4.2.3 Wind Influences

Wind affects Gunnison Bay in several ways. Although extreme wind events are temporary (lasting hours or several days), these can cause a short-lived increase in turbidity (suspended solids) throughout Gunnison Bay. These increases in turbidity may cause the intake of the raw brine to contain increased levels of suspended solids, which will be conveyed to the raw brine pond and through the filters.

Waterleaf Resources anticipates that the raw brine pond will be periodically maintained to remove any sediment that accumulates. Increased solids to the filters will not affect operations, because solids will be filtered prior to processing, but may affect the filter efficiency, frequency of backwashes, and planned maintenance activities.

Other wind effects on Gunnison Bay include wind tide and wave run-up, changes to circulation patterns, and vertical mixing of the brine. As intake and discharge infrastructure is designed to operate during wind events, these wind effects are not anticipated to have any effects on operations.

4.3 Nondischarging Operations

For operations that are nondischarging during the feasibility assessment, a determination of whether discharge will occur during the operation phase and an evaluation of how the operator will obtain information to characterize its operations discharge during the feasibility assessment (R317-16-3(4)(c)(ii)).

The Commercial Plant will continuously discharge to the North Arm of the GSL during normal operation. This section is not applicable.

5 Impacted Habitat

5.1 Description of Existing GSL Habitat and Biota in and around the Area of Operation

Description of existing GSL habitat and biota in and around the area of operation (R317-16-3(4)(d)(i)).

The Commercial Plant will withdraw brine from and discharge depleted brine and groundwater to the North Arm (Gunnison Bay) of the GSL from the eastern shoreline near the Promontory Mountains. The intake and outfall infrastructure will be located along the same alignment as the Demonstration Plant's infrastructure, but it will extend farther into the open water, terminating at lakebed elevations of 4,185 feet msl and 4,190 feet msl, respectively.

Freshwater and wetland habitat in and around the location of the proposed Commercial Plant is limited because of the hypersaline nature of the open water in the North Arm of

the GSL and the lack of freshwater inflows into the North Arm. Biota presence and communities are described below.

5.1.1 North Arm GSL Habitat

The intake and outfall infrastructure will be constructed from the Commercial Plant to the open waters of the North Arm (Gunnison Bay) of the GSL. The infrastructure GSL area can be described as exposed GSL lakebed and North Arm hypersaline open waters.

Utah Geological Survey (UGS) mapping has identified the western, eastern, and southeastern shoreline areas in the North Arm that might contain microbialites (UGS 2021). Microbialite structures provide a food source for brine shrimp and brine flies (Baxter and Butler 2020). However, research has documented that, due to limited availability of nutrients, the North Arm microbialite structures have lower mass, productivity, and/or diversity compared to microbialites in the South Arm (Baxter and Butler 2020).

Waterleaf Resources conducted a microbialite survey of the lakebed intake and outfall construction area (FFSL easement area) to identify the existence of these important habitat structures in the project area. Microbialite structures were not found in the surveyed project area (see Appendix F, *Microbialite Survey Memorandum 2025 Commercial Plant*).

Wetland complexes (the Locomotive Springs and Salt Wells Flat Wildlife Management Areas) are identified along the northern shoreline of the North Arm, above the 4,212-foot contour, about 30 and 20 miles northwest of the project site, respectively. The Commercial Plant will not affect these management areas.

5.1.2 North Arm GSL Biota

North Arm biota in and around the location of the proposed Commercial Plant is limited because of the hypersaline nature of the open water in the North Arm of the GSL. The North Arm biota is documented in *Great Salt Lake: A Scientific, Historical, and Economic Overview* (Gwynn 1980), which states: “The very high level of salt, especially sodium chloride, and the low level of dissolved oxygen create an extreme environmental stress on life-forms entering the lake.” Biological communities in the project area have been identified as bacteria, fungi, archaea, and microbes that exist in hypersaline waters.

Gunnison Island, located in the North Arm, has provided nesting habitat to a population of American white pelicans. Pelicans do not forage in the North Arm because of the hypersaline waters (Baxter and Butler 2020). Recently, due to drought, predators can access the island across the exposed lakebed, threatening the colony.

Research continues to advance the information regarding the types and diversity of microbial communities in the hypersaline waters of the North Arm, including bacteria and archaea (Baxter and Butler 2020).

During operation of the Demonstration Plant, Waterleaf Resources contracted with Dr. Bonnie Baxter of Westminster University to conduct a Demonstration Plant Microbial Analyses (Biota) Study (Baxter 2025). The results are summarized below, and the complete report is provided in the *Final Monitoring Report*. Waterleaf Resources asserts

that the biota described in the report will be representative of the biota in the North Arm during the Commercial Plant's operation.

Demonstration Plant Biota Monitoring and Analysis

During the Demonstration Plant's operation, influent and discharge water samples were collected and analyzed for the presence of biota (fungi, archaea, bacteria, and algae) in three separate monitoring events by Dr. Baxter. The biota study was designed to examine and characterize the microbial biomass and community in the influent and discharge of the Demonstration Plant during its operation. The focus of the biota study was to evaluate biota presence in the Demonstration Plant's influent and discharge flows by:

- Using a hemacytometer to determine the number of cells present.
- Determining the presence and abundance of bacteria, archaea, algae, and fungi species through DNA sequencing.
- Testing whether cells could grow in the influent and discharge samples. Additionally, a mix of influent and discharge (representing discharge to the North Arm) was tested. Samples were inoculated with cells and observed over 24 days to determine growth rates.

Monitoring events occurred on February 28, April 24, and June 23, 2025.

Presence of Biota

A hemacytometer (which provides a grid and special cover glass to control the distributed volume) was used to estimate the cell density in each of the samples. The results are shown in Table 2. As predicted, the results varied seasonally, with more cell counts in the influent and discharge flows as the weather warmed. By comparing influent and discharge samples, this analysis provides evidence that the Demonstration Plant's DLE process did not reduce biota cell count for archaea, bacteria, and fungi; algae reductions, when they occurred, were due to filtration.

Table 2. Biota Cell Counts and Dry Weight

Month	Number of Cells Observed via Hemacytometer (cells per mL)		Dry Weight of Biota (g/L)	
	Influent	Discharge	Influent	Discharge
February 2025	2.8×10^8	None observed[a]	Not analyzed	
April 2025	3.6×10^9	4.6×10^9	3.7	4.5
June 2025	8.1×10^9	5.3×10^9	5.2	4.2

Definitions: g/L = grams per liter; mL = milliliters

[a] Although no cells were observed using the hemacytometer, DNA sequencing revealed the presence and abundance of archaea, bacteria, and fungi in the discharge sample.

Biota Diversity

To document the species of biota that are present in both the influent and discharge flows, a consulting lab was contracted for DNA sequencing. The lab amplified DNA genes (16S rRNA, 18S rRNA, or ITS) associated with bacteria, archaea, algae, or fungi. The DNA is very specific to communities that might be present in North Arm brine. For the February and April monitoring events, archaea, bacteria, and fungi were present and abundant, but algae was not present. This is to be expected because the colder temperatures of North Arm brine in February and April do not support algae communities. Algae communities were observed in samples from the June monitoring event.

This analysis provides the relative abundance of the specific biota in the influent and discharge (effluent) flows. It is important to note that the abundance is relative to other species in the influent or discharge samples, but no comparison of the influent to the discharge is valid. Biota species existed in both influent and discharge samples, and abundance varied with environmental conditions (that is, seasons and water temperatures). The abundance of archaea, bacteria, and fungi for the April monitoring event is shown in Figure 4. The abundance of archaea and bacteria (prokaryotes) and algae (eukaryotes) for the June monitoring event is shown in Figure 5.

By comparing influent and discharge flow samples, this analysis provides evidence that the Demonstration Plant's DLE process did not reduce biota cell diversity for archaea, bacteria, and fungi species. These biota are not affected by the DLE processes, including filtration, due to the small size (1–2 microns) of the individual organisms. When algae species are present during the warm summer months, the number of species is reduced by the filtration process due to the larger size (10–20 microns) of the individual organisms.

Figure 4. April 2025 Biota Abundance Graphs

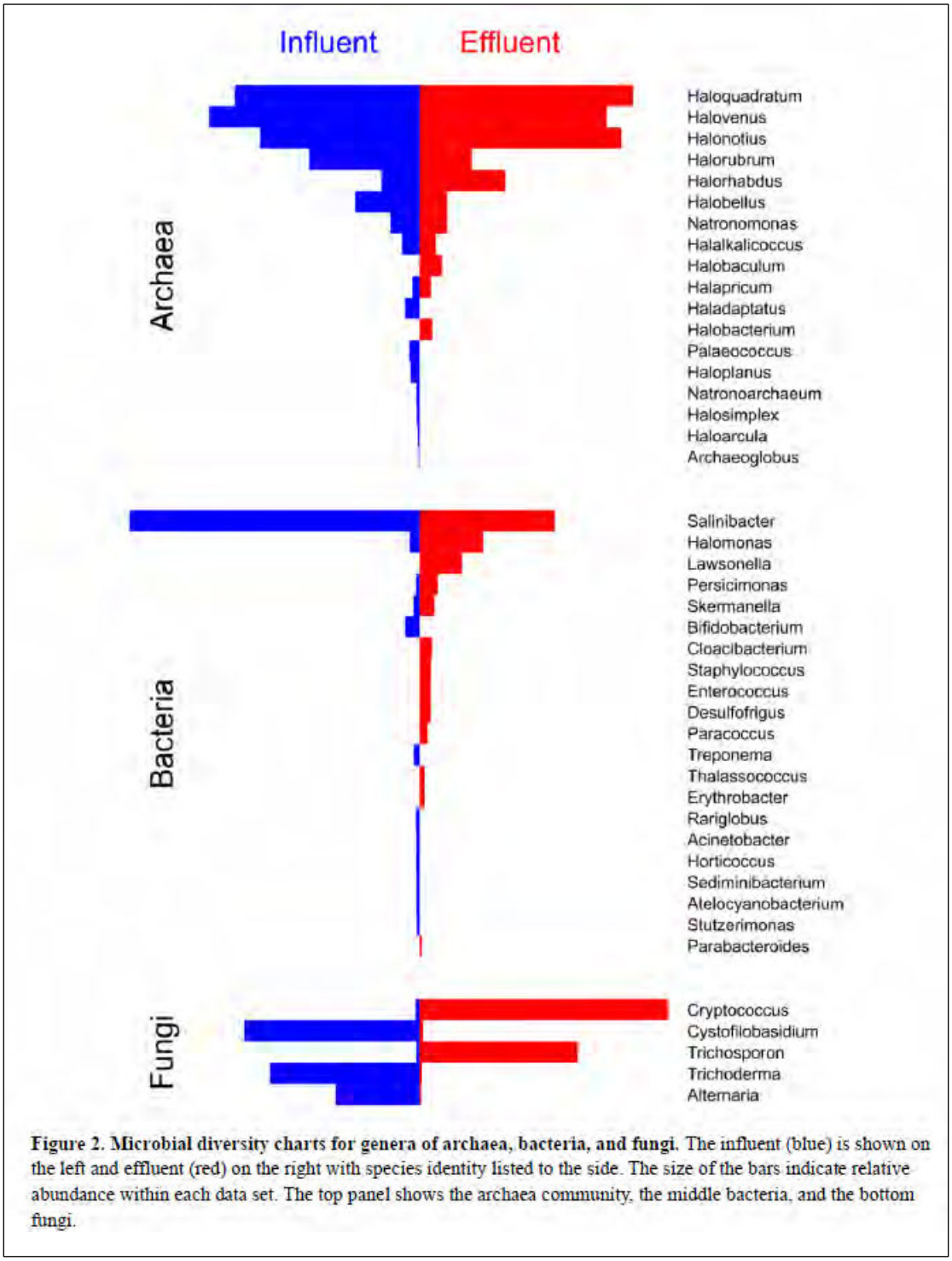


Figure 2. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Figure 5. June 2025 Biota Abundance Graphs

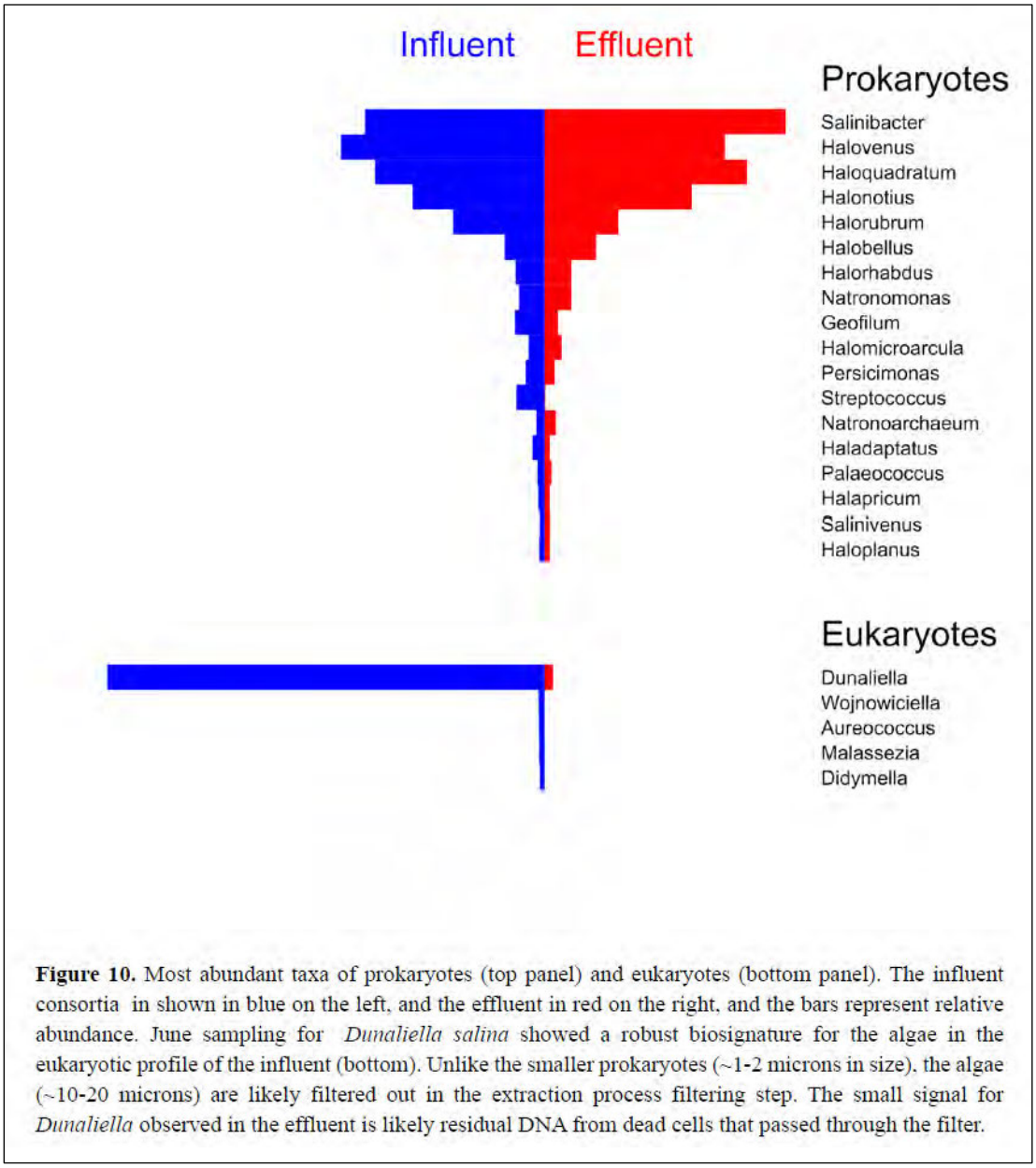


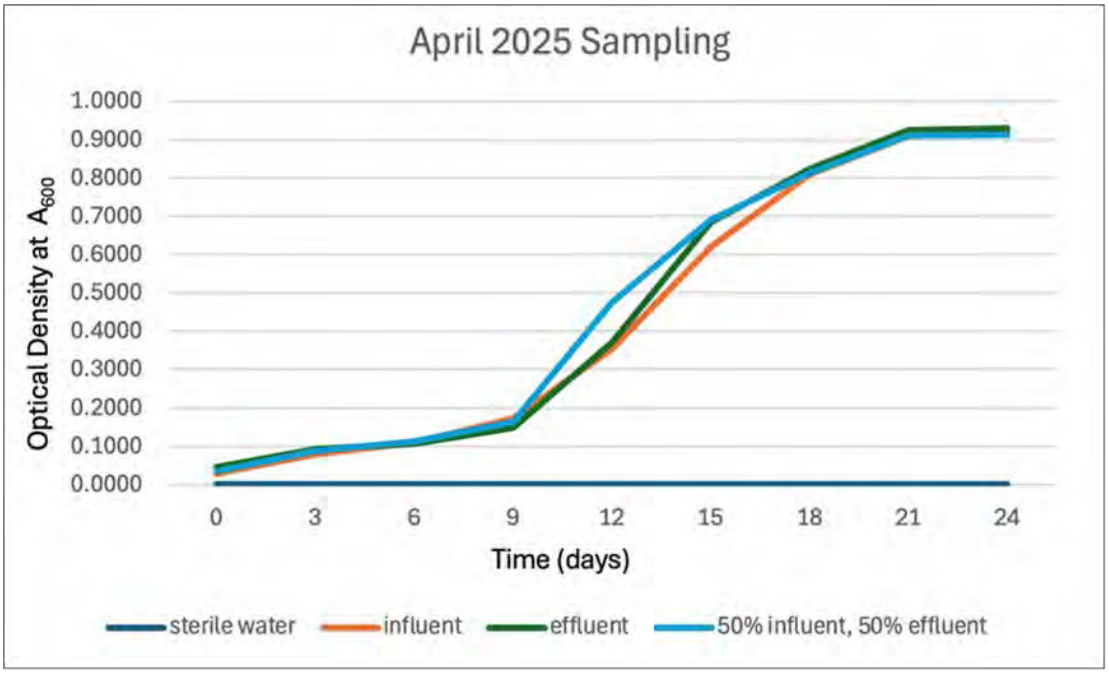
Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

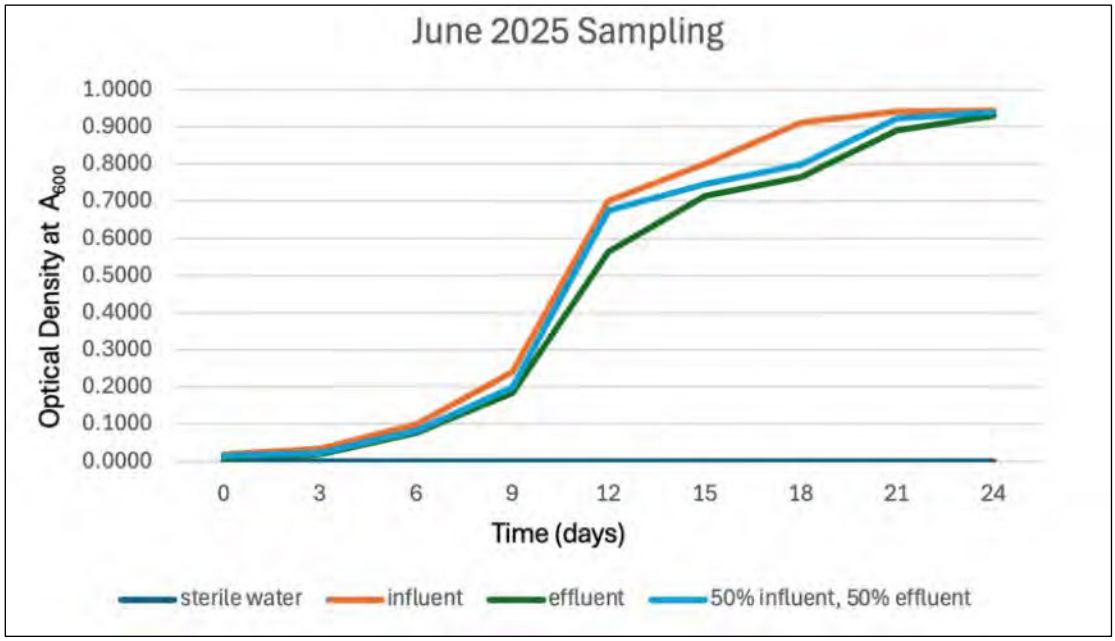
Biota Growth in Discharge

To understand the effects of discharges into the North Arm on biota growth, a time course growth experiment was conducted on influent, discharge, or a mix of the influent and discharge (representing North Arm brine after discharge). The protocol that was used consisted of inoculating 9 milliliters (mL) of 23% salt modified growth media (Dyall-Smith 2009) with 1 mL of sample. The inoculated samples consisted of (1) sterile deionized water serving as a control, (2) influent flow, (3) discharge flow, and (4) a 50:50 mix of influent and discharge, which represents the in-lake mixture of discharge and brine.

Figure 6 shows the growth curves of the samples collected during the April and June monitoring events. All samples follow a standard growth curve. The microbial communities appear to have reached a stationary growth phase over the 24-day period of study. This is expected of healthy cultures. Also note that the sample representing the North Arm brine mixed with the discharge flow did not visibly affect growth of the biota. By comparing influent, discharge, and mixture sample results, this analysis provides evidence that the Demonstration Plant's DLE process discharge did not prevent biota cell growth in the North Arm of the GSL.

Figure 6. April and June 2025 Biota Growth Results





Based on the biota monitoring study and results, North Arm biota was documented to be present and abundant in the raw brine influent and Demonstration Plant discharge water during its operation. Biota were also documented to grow and reproduce in the discharge water from the Demonstration Plant. Therefore, Waterleaf Resources asserts that the Demonstration Plant did not disrupt survival, reproduction, or growth of North Arm biota (archaea, algae, bacteria, and fungi) and did not have a negative impact on the biota of the North Arm of the GSL.

5.2 Potential Physical Impacts

Description of the potential physical impact to habitat and biota in and around the withdrawal and discharge locations (R317-16-3(4)(d)(ii)).

The potential physical impacts to North Arm habitat and biota due to the Commercial Plant include the construction and operation of the brine intake and outfall infrastructure that will be placed on the North Arm lake bed above and below the GSL meander line. Below the GSL meander line, the pipes will be constructed and operated within the FFSL easement.

The HDPE intake pipe will be 28 inches in diameter and will extend from the Commercial Plant's location to the west into the open water of the North Arm of the GSL to a lakebed elevation of 4,185 feet msl. The HDPE outfall pipe will be 28 inches in diameter and will extend into the open water of the North Arm of the GSL to a lakebed elevation of 4,200 feet msl. The infrastructure will be accessible for maintenance during operations within the FFSL easement.

To minimize lakebed disturbance, the intake and outfall infrastructure will be constructed with off-highway vehicles.

As stated above in Section 5.1.1, *North Arm GSL Habitat*, there will be no physical impact to habitat (microbialite structures) from the construction, operation, or maintenance of the intake and outfall infrastructure. This assertion is based on the results of the survey that was conducted, which documented that there are no microbialite structures within the FFSL easement where the infrastructure will be located. See Section 5.1.1 and Appendix F.

The biota (algae, fungi, archaea, and bacteria) will not be physically impacted by constructing and maintaining the Commercial Plant's intake and outfall infrastructure. Data obtained during the operation of the Demonstration Plant indicated that the biota (algae, fungi, archaea, and bacteria) were observed in the influent and discharge flows and that biota could grow and mature in the discharge flow. These data support the assertion that the Demonstration Plant did not harm North Arm biota, and Waterleaf Resources expects that the Commercial Plant will likewise not harm North Arm biota.

5.3 Least Degrading Reasonable Alternatives

Evaluation of least degrading reasonable alternatives (R317-16-3(4)(d)(iii)).

Waterleaf Resources prepared an alternatives analysis and presented this analysis in the Level II ADR (Appendix C). In summary, the Commercial Plant will withdraw brine from and discharge it to the North Arm of the GSL using DLE technology that will not involve the use of evaporative ponds or other water-depleting processes. Compared to the conventional evaporative pond process for extracting salts and minerals from saline lakes, the technology to be used in the Commercial Plant is the least degrading alternative because brine will not be depleted from the GSL.

Discharge alternatives that are traditionally evaluated for wastewater facilities—alternatives such as pollutant trading, reuse, or land application—are not appropriate alternatives for this project.

5.4 Mitigation Plan

Plan to mitigate any negative impacts of the proposed operation (R317-16-3(4)(d)(iv)).

No negative impacts to North Arm salinity, chemistry, volume, habitat, or biota were identified during the operation of the Demonstration Plant and detailed in the *Final Monitoring Report* (Appendix D). Commercial Plant operation impacts are detailed in Section 7, *Evidence Supporting the Operator Certification*, of this application, and Waterleaf Resources determined no negative impacts. Therefore, no mitigation is proposed.

5.5 Beneficial Use

Plan to ensure existing beneficial uses will be maintained and protected (R317-16-3(4)(d)(v)).

The Commercial Plant will have no direct impacts to Gilbert, Farmington, or Bear River Bays (located in the South Arm of the GSL). Therefore, Waterleaf Resources focused this analysis on the open waters of Gunnison Bay (North Arm) (Table 3).

Table 3. Beneficial-use Classes for Gunnison Bay

Class	Location	Beneficial Uses
5B	Gunnison Bay (the North Arm of the GSL excluding evaporation ponds)	Gunnison Bay is protected for infrequent primary and secondary contact recreation, waterfowl, shore birds, and other water-oriented wildlife, including their necessary food chain.
5E	Transitional waters along the shoreline of the GSL geographical boundary	Transitional waters along the shoreline of the GSL geographical boundary are protected for infrequent primary and secondary contact recreation, waterfowl, shore birds, and other water-oriented wildlife, including their necessary food chain.

Source: R317-2, Standards of Water Quality for the State, as in effect January 25, 2023

Waterleaf Resources prepared a review of the GSL Gunnison Bay (North Arm) designated beneficial uses and an analysis of water quality standards. This analysis is included in the Level II ADR (Appendix C).

The analysis demonstrated compliance with the State's antidegradation policy to protect and maintain the beneficial uses of the North Arm of the GSL and demonstrated that discharges from the Commercial Plant will not exceed water quality standards.

In addition, Waterleaf Resources will conduct compliance monitoring during the Commercial Plant's operation on influent and discharge flows in accordance with the UPDES permit and the GSL Mineral Extraction Facility Operator Certification.

Physical and chemical data obtained during the operation of the Demonstration Plant provide evidence that the Demonstration Plant was protective of the North Arm's beneficial uses. Waterleaf Resources expects that the Commercial Plant will maintain the North Arm's beneficial uses by meeting water quality standards, similarly to the Demonstration Plant.

6 Monitoring and Inspection Plan

6.1 Description of Monitoring Means and Methods

A description of the methods and means to monitor the quality and characteristics of the discharge and operation of the equipment or facilities employed in control of any proposed discharge (R317-16-3(4)(e)(i)).

While the Commercial Plant is operating, Waterleaf Resources will monitor influent and discharge flows for the constituents identified in UDWQ Rule R317-16-3(4) and in the UPDES permit that authorizes the Commercial Plant's operation and discharge.

Table 4 identifies laboratory analysis methods for the chemical constituents that will be reported. Level II laboratory data quality will be prepared and submitted for all compliance monitoring events.

In addition to chemical laboratory analysis, Waterleaf Resources will observe influent and discharge flows to document applicable characteristics associated with the state narrative water quality standards. These narrative standards include the following water quality parameters: unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor.

Continuous influent and discharge monitoring will be conducted for flow and pH. Discharge flows will be continuously monitored for total residual chlorine.

Biota monitoring will be conducted to document biota presence and abundance in the influent and discharge flows and in open-water samples collected near the end of the outfall pipe.

Table 4. Water Quality Monitoring Means and Methods

Analysis Method	List of Constituents
Metals (Total)	
EPA 200.7, Metals in Water by ICP-AES	Boron, calcium, lithium, potassium, silica[a], sodium
EPA 200.8, Metals in Water by ICP/MS	Aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, molybdenum, nickel, selenium, silver, zinc
EPA 1631, Mercury in Water by CVAFS	Mercury
Inorganic Nonmetals	
EPA 300.0, Determination of Inorganic Anions by Ion Chromatography	Bromide, chloride, nitrate, sulfate
EPA 335.4, Determination of Total Cyanide by Semi-automated Colorimetry	Cyanide
SM 2320 B, Alkalinity by Titration	Alkalinity, bicarbonate, carbonate, hardness, hydroxide
SM 4500 NO_2 B, Nitrite by Colorimetry	Nitrite
SM 5210 B, 5-Day BOD Test	Biochemical oxygen demand (BOD)
Hach 8000, EPA Reactor Digestion Method	Chemical oxygen demand (COD)
APHA Standard Method 2540 C, Total Dissolved Solids Dried at 180°C	Total dissolved solids (TDS)
APHA Standard Method 2540 D, Total Suspended Solids Dried at 103–105°C	Total suspended solids (TSS)
Other Methods	
Field Measurement – Instantaneous	Dissolved oxygen, water temperature, density,
Field Measurement – Continuous	Flow, pH, total residual chlorine (discharge only)
Grab Sample	Oil and grease
UDWQ Molar Mass Calculation	Silicon

Definitions: °C = degrees Celsius; AES = atomic emission spectrometry; APHA = American Public Health Association; BOD = biological oxygen demand; CVAFS = cold vapor atomic fluorescence spectroscopy; EPA = U.S. Environmental Protection Agency; ICP = inductively coupled plasma; MS = mass spectrometry; NO_2 = nitrogen dioxide; SM = Standard Method; UDWQ = Utah Division of Water Quality

[a] Silica data will be used to calculate silicon values based on UDWQ's mass molar equation.

6.2 Monitoring Plan

Plan to monitor and address long-term cumulative effects of withdrawals and discharges on the biota and chemistry of the GSL, including available baseline data (R317-16-3(4)(e)(ii)).

Influent and discharge water chemistry monitoring will be conducted monthly during operation of the Commercial Plant. Grab samples will be analyzed for constituents and by methods in Table 4 above, by a state-certified analytical laboratory. During monthly monitoring events, visual observations will be made of the influent and discharge to assess compliance with narrative water quality standards.

Continuous flow and pH monitoring will be performed on influent and discharge flows. Discharge flows will be continuously monitored for total residual chlorine.

Additionally, to incorporate UDWQ's monitoring guidelines, Waterleaf Resources will conduct quarterly sampling and analyses for petroleum constituents consisting of gasoline range organics (GRO), diesel range organics (DRO), and total petroleum hydrocarbons (TPH) as a surrogate of conducting total toxic organics (TTO) analyses. Waterleaf Resources will compare the discharge concentrations and the influent concentrations for these constituents to identify whether TTO analysis is required for the following quarter.

Compliance monitoring data and laboratory data quality packages will be submitted electronically via EPA's NetDMR system as required by the UPDES permit.

Annual biota monitoring will be conducted on influent and discharge flows. The timing of the biota monitoring event will be rotated annually to characterize North Arm biota by season (spring, summer, fall, and winter).

In preparation for the UPDES permit and Operator Certification renewal processes, Waterleaf Resources will prepare a 5-year monitoring report that evaluates the compliance monitoring data for trends. The report will compare discharge concentrations to influent concentrations to evaluate the effects of withdrawing and discharging North Arm brine on the chemistry of the North Arm. Continuous flow monitoring data will be obtained to evaluate the annual volume of brine withdrawn from the North Arm, the annual volume of discharge to the North Arm, and the resulting effects on the North Arm's chemistry, WSE, and overall volume. Included in this overall analysis will be an evaluation of the North Arm's WSEs, volumes, and variability of chemistry due to natural watershed hydrology and state management actions prescribing the amount of South Arm flow to the North Arm via the control berm in the GSL causeway. The report will also evaluate the biota sampling data collected over the 5-year period to assess the effects on North Arm biota from the Commercial Plant's operation.

6.3 Monitoring Locations

A map showing the locations of proposed monitoring points (R317-16-3(4)(e)(iii)).

Two monitoring locations are proposed at the Commercial Plant. Influent and discharge flows will be sampled during operation of the plant. These locations will be on privately leased land, and the samples will be taken from sampling ports installed in the

infrastructure at locations before and after processing equipment. Chemical, biota, flow, and pH will be monitored from the intake pipe system, prior to the raw brine pond, and discharge will be monitored from the outfall pipe system, after the final process operation. Refer to Figure 1.

7 Evidence Supporting the Operator Certification

7.1 Commercial Plant Short- and Long-term Impact Evaluation

Consideration of both short-term effects and long-term impacts of the project (R317-16-3(4)(f)(i)).

Waterleaf Resources evaluated the short- and long-term impacts of the Commercial Plant's operation on North Arm volume, WSE, chemistry, and biota as well as the short- and long-term impacts on the South Arm's (Gilbert Bay's) volume, chemistry, and biota. These impact evaluations are discussed in Section 7.2 below.

7.2 Supporting Documents

Examples of evidence supporting a certification (R317-16-3(4)(f)(ii)).

7.2.1 Comparison of Influent and Effluent Volume and Chemical Characteristics

Quantitative comparison of influent and effluent volume and chemical composition (R317-16-3(4)(f)(ii)(A)).

Short- and Long-term North Arm Volume Impacts

This section discusses short-term impacts to the WSE of the North Arm due to operation of the Commercial Plant.

To evaluate short-term effects on North Arm WSEs, the annual discharge volume from the Commercial Plant's operation is compared to the North Arm volume. The plant's design annual influent volume (18,156 af) subtracted from the discharge volume (18,356 af) results in an increase of flow (net volume discharged) to the North Arm of 200 af from the Commercial Plant due to the addition of externally sourced groundwater. This additional 200 af of discharge flow is about 0.0062% of the current North Arm volume (3.24 maf at a WSE of 4,192.1 feet [NGVD 1929]).

To evaluate long-term effects on North Arm WSEs, the volume change to the North Arm from the operation of the Commercial Plant over 10 years is compared to the current North Arm volume. This conservative analysis assumes that 10 years of discharge occur at once into the current volume of the North Arm. In reality, this cannot occur, because the North Arm's volume varies seasonally and annually in response to natural watershed

hydrology and state management actions. Nonetheless, the design 10-year total of additional volume to the North Arm (2,000 af) is about 0.062% of the current North Arm volume of 3.24 maf at a WSE of 4,192.1 feet (NGVD 1929).

This comparison confirms that the short- and long-term effect of increased volume discharged from the Commercial Plant to the North Arm will be *de minimis*, and no negative impact (decrease) to North Arm volume will be realized as a result of the Commercial Plant's operation. This quantitative analysis supports the assertion that the IX technology and extraction of lithium will not decrease GSL volume and that the process is nonconsumptive of GSL brine and protective of GSL WSEs.

Short-term North Arm Chemistry Impact Evaluation

This section discusses short-term impacts to the chemistry of the North Arm due to operation of the Commercial Plant.

Waterleaf Resources compares the anticipated annual mass load to the North Arm from the Commercial Plant's operation to the existing North Arm mass, for each constituent monitored during the Demonstration Plant's operation, to evaluate short-term impacts to North Arm chemistry.

Annual mass balances for all constituents and targeted minerals are provided in Section 2.2, *Commercial Plant Mass Balance*, for the Commercial Plant. The annual mass load as shown in Table 1 is compared to the North Arm mass in Table 5. The annual mass load is influent mass subtracted from discharge mass (either additional or reduced). The North Arm mass is calculated using average influent concentrations, a WSE of 4,192.1 feet (NGVD 1929), and a corresponding volume of 3.24 maf (USGS 2025).

As shown below in Table 5, short-term (annual) Commercial Plant mass loads of most constituents are less than 0.3% of the total North Arm mass, and therefore changes are considered *de minimis*, and no negative short-term impact to North Arm chemistry will occur due to the Commercial Plant's operation. Lithium is the exception; it will have an estimated annual depletion rate of 0.44% of the North Arm mass, which is determined to have no negative short-term impact to North Arm chemistry.

Table 5. Annual Commercial Plant Mass Load Compared to North Arm Mass

Constituent	Annual Mass Load[a] (tons/year)	North Arm Mass[b] (tons)	% Change in North Arm Mass, Annually
Alkalinity	−6,770	2,522,510	−0.27%
Aluminum	−3.55	7,270	−0.05%
Arsenic	−3.70	2,250	−0.16%
Barium	−0.51	880	−0.06%
Bicarbonate	−6,770	2,522,510	−0.27%
BOD	+59	22,600	+0.26%
Boron	−44.77	273,000	−0.02%
Bromide	−243	783,710	−0.03%
Cadmium	NA	NA	NA
Calcium	−132	1,359,670	−0.01%
Carbonate	NA	NA	NA
COD	−10,064	7,118,580	−0.14%
Chloride	+1,699	816,694,340	0.00%
Chromium	0.0	485	0.00%
Copper	0.0	154	0.00%
Cyanide	NA	NA	NA
Hardness	−36,332	268,710,121	−0.01%
Hydroxide	NA	NA	NA
Iron	+0.07	2,511	0.00%
Lead	NA	NA	NA
Lithium	−1,323	299,565	−0.44%
Magnesium	-302	64,466,052	0.00%
Manganese	+0.01	159	+0.01%
Mercury	−0.0002	0.17	−0.12%
Molybdenum	−0.39	617	−0.06%
Nickel	+0.00	154	0.00%
Nitrate	NA	NA	NA
Nitrite	NA	NA	NA
Oil and grease	NA	NA	NA
Potassium	-157	38,417,318	0.00%
Selenium	−0.16	238	−0.07%
Silica	+25.32	26,520	+0.10%
Silicon	+12.22	11,850	+0.10%
Silver	NA	NA	NA
Sodium	+8,937	433,771,045	0.00%
Sulfate	+12,291	118,837,303	+0.01%
TDS	+12,351	1,546,803,911	+0.00%
TSS	−61	168,232	−0.04%

(*Continued on next page*)

Table 5. Annual Commercial Plant Mass Load Compared to North Arm Mass

Constituent	Annual Mass Load[a] (tons/year)	North Arm Mass[b] (tons)	% Change in North Arm Mass, Annually
Zinc	NA	NA	NA

Definitions: BOD = biological oxygen demand; COD = chemical oxygen demand; NA = not analyzed (influent and discharge concentrations are nondetect); TDS = total dissolved solids; TSS = total suspended solids

[a] Annual mass change is from Table 1, converted to tons.

[b] North Arm mass is calculated based on a volume of 3.24 maf at a WSE of 4,192.1 feet (NGVD 1929) and influent average concentrations as shown in Table 2.

Long-term North Arm Chemistry Impacts

Waterleaf Resources evaluated long-term North Arm chemistry impacts from the Commercial Plant's operation through two analyses: (1) hydrodynamic dispersion model simulations for lithium and (2) mass balance model scenarios for additional constituents. Both analyses are summarized in this application and detailed in Appendices G and H, respectively.

Hydrodynamic Dispersion Model

Waterleaf Resources conducted Commercial Plant discharge flow dispersion hydrodynamic modeling (Appendix G, *Great Salt Lake Brine Dispersion Modeling Report*) to assess the short- and long-term impacts to the North Arm's chemistry due to the Commercial Plant's operation. Existing bathymetry, historic and predicted WSEs, wind direction, current conditions, causeway opening location and flow, operational parameters, and historic GSL lithium concentration data were used to set up the TELEMAC-3D hydrodynamic model. The model evaluated three short-term (1-year) scenarios with differing intake and outlet coordinates, a North Arm WSE of 4,188 feet (NGVD 1929), North Arm background lithium concentrations, and anticipated discharge lithium concentrations. The model included various WSE scenarios, causeway opening bidirectional flows, third-party extractions, and operation parameters.

The results of the short-term dispersion modeling indicated that the discharge flow from the Commercial Plant will extend into the North Arm and that discharge flows will be fully mixed with North Arm brine within 100 feet of the outfall. This conclusion is based on the characteristics of the discharge flow being comparable to North Arm brine in density, temperature, and salinity, which promotes mixing. Long-term dispersion modeling predicted varying North Arm background lithium concentrations and potential changes to North Arm lithium mass due to varying WSEs, causeway opening flows, and third-party extractions. The hydrodynamic dispersion model simulation provides evidence that the discharges from the Commercial Plant will be limited to the North Arm and will not be directly conveyed to the South Arm through the causeway opening and that the operation of the Commercial Plant will not deplete the North Arm's lithium mass. Further discussion regarding mass loading of North Arm brine to the South Arm is provided below in the *Long-term Mass Balance Model* section.

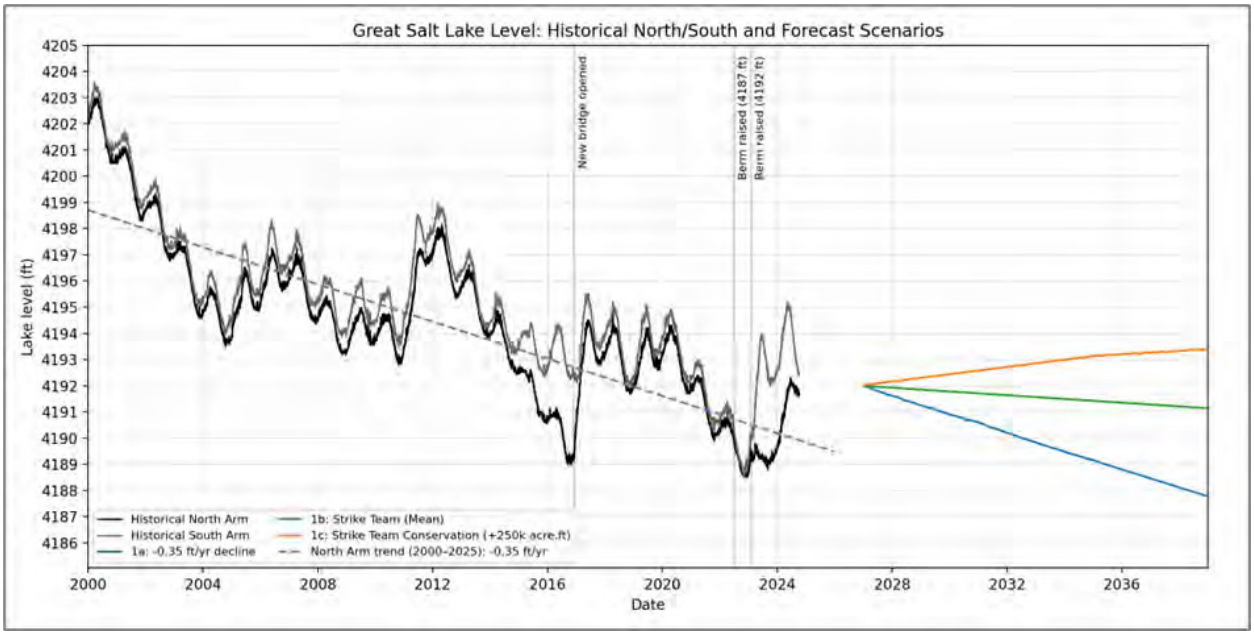
Because the dispersion model focused on lithium and various lake levels, Waterleaf Resources conducted additional long-term chemistry impact analysis for other constituents, as discussed in the following section.

Long-term Mass Balance Model

A long-term (10-year) mass balance model was prepared for five scenarios with various WSEs, and included effects from causeway opening bidirectional flows (net South Arm to North Arm, providing a source of mass loading to the North Arm) and third-party extractions. Eighteen constituents (aluminum, arsenic, barium, boron, bromine, calcium, chloride, iron, lead, lithium, magnesium, manganese, molybdenum, potassium, selenium, silica, sodium, and sulfate) were selected for analysis by this model, as a reasonable representation of monitored constituents. This section summarizes the results of the mass balance model analyses of the Commercial Plant's operation on North Arm chemistry. For detailed methodology, discussion, and results, see Appendix H, *Commercial Plant Long-term Effect on Gilbert Bay Chemistry*.

The Commercial Plant's mass loading to the North Arm was evaluated over five lake level scenarios: (1a) low lake level, (1b) mid lake level (based on Great Salt Lake Strike Team base projections), (1c) high lake level (based on Great Salt Lake Strike Team conservation projections), (1d) mid lake level with lowered causeway opening management berm using U.S. Geological Survey (USGS) bidirectional flow data from 2022, and (1e) mid lake level with lowered causeway opening management berm using USGS bidirectional flow data from 2023. These scenarios are shown graphically in Figure 7.

Figure 7. Long-term North Arm Water Level Forecasts



Other factors that affect lake levels and that are included in the analyses are bidirectional flows through the causeway opening management berm and Compass Mineral lake withdrawals. Bidirectional mass loading between the North and South Arms was prepared using USGS flow rates and North and South Arm concentrations. USGS bidirectional flow rates show that South Arm to North Arm flows dominate North Arm to South Arm flows; in other words, the South Arm contributes more flow and mass to the North Arm than the North Arm contributes to the South Arm.

Based on these assumptions, model inputs, and scenarios tested, Waterleaf Resources evaluated North Arm concentration time series under two cases: with Commercial Plant operations and without Commercial Plant operations. The incremental effect of Commercial Plant operations was then quantified as the percentage difference between the two cases. This approach isolates the Commercial Plant's operational effect from background drivers such as lake level variation and bidirectional flows through the causeway opening.

The model scenario results revealed that the largest impact from the Commercial Plant's operation for most constituents will be from lake level scenario 1a (continued decline). As shown in Table 6, the modeled impact of the Commercial Plant's operation on North Arm concentrations for all scenarios will remain small (from −1.3% for arsenic to +0.74% for silica) across all modelled constituents, including lithium.

Table 6. Long-term Percentage Impact of Commercial Operations to North Arm Chemistry

Constituent	1a Low Lake Level	1b Mid Lake Level	1c High Lake Level	1d Mid Lake Level, Lowered Berm, 2022 Data	1e Mid Lake Level, Lowered Berm, 2023 Data
Aluminum	−1.22	−0.31	−0.37	−0.34	−0.34
Arsenic	−1.16	−1.22	−1.07	−1.26	−1.16
Barium	−0.39	−0.41	−0.36	−0.43	−0.39
Boron	−0.09	−0.11	−0.10	−0.11	−0.10
Bromine	−0.17	−0.22	−0.20	−0.21	−0.19
Calcium	−0.03	−0.06	−0.05	−0.05	−0.04
Chloride	0.00	0.00	0.00	0.00	0.00
Iron	0.00	0.00	0.00	0.00	0.00
Lead	+0.19	+0.20	+0.17	+0.20	+0.19
Lithium	−2.19	−3.16	−2.67	−2.84	−2.52
Magnesium	0.00	0.00	0.00	0.00	0.00
Manganese	+0.04	+0.05	+0.04	+0.05	+0.04
Molybdenum	−0.42	−0.45	−0.39	−0.46	−0.42
Potassium	0.00	0.00	0.00	0.00	0.00
Selenium	−0.04	−0.04	−0.04	−0.04	−0.04
Silica	+0.68	+0.72	+0.63	+0.74	+0.68
Sodium	+0.01	+0.01	+0.01	+0.01	+0.01
Sulfate	+0.09	+0.08	+0.07	+0.09	+0.08

Waterleaf Resources determined that the long-term impacts from the Commercial Plant's operation to North Arm chemistry will be *de minimis* based on extensive analyses including hydrodynamic dispersion and mass balance models. Therefore, the Commercial Plant's operation will result in no negative impacts to North Arm chemistry.

Volume Impacts to South Arm (Gilbert Bay)

This section discusses short- and long-term impacts to the WSE of the South Arm (Gilbert Bay) due to operation of the Commercial Plant.

Waterleaf Resources bases impacts to Gilbert Bay's volume on the above evaluation of effects on North Arm WSEs from the Commercial Plant's operation. This evaluation showed no volume reduction and a *de minimis* volume addition to the North Arm's volume.

Because the Commercial Plant's operation will not change the North Arm's volume or WSE, the exchange of flow between the North and South Arms via the management berm and causeway opening would not be affected. Bidirectional flow between the North and South Arms through the causeway is influenced by differences in salinity, North and South Arm WSEs, and the differences between the North and South Arm WSEs (head difference). Given that there will be no changes to the North Arm's WSE, the Commercial Plant will not cause either more or less bidirectional flow through the causeway (for further discussion of bidirectional flow, see Appendix I, *Demonstration Plant Operation and Relation to Water Quality*).

Waterleaf Resources determined that the short- and long-term impacts from the Commercial Plant's operation to South Arm volume will be *de minimis.* Therefore, the Commercial Plant's operation will result in no negative impacts to the South Arm's volume.

Chemistry Impacts to South Arm (Gilbert Bay)

Waterleaf Resources evaluated impacts to the South Arm (Gilbert Bay) from the Commercial Plant's operation using the mass balance model for the same lake level scenarios discussed above. The South Arm will be affected by the Commercial Plant's operation only under bidirectional causeway opening flow conditions, which would occur if the management berm were lowered or further eroded. Scenarios 1d and 1e were specifically modelled to represent this condition.

For these scenarios, the North Arm to South Arm mass transfer rate is calculated at each time step using the North Arm concentration time series, evaluated separately for conditions with Commercial Plant operations and without Commercial Plant operations. The difference between these two cases represents the net mass effect attributable to Waterleaf Resources' operations (positive or negative), which is accumulated over time in the South Arm.

A positive concentration change indicates that the Commercial Plant's operation will increase the concentration of a constituent in the South Arm relative to the case without Commercial Plant operations (that is, higher mass transfer to the South Arm), while a negative concentration change indicates that the Commercial Plant's operation will reduce the concentration of a constituent in the South Arm.

The results show that, after 10 years, impacts to the South Arm will occur only under bidirectional causeway opening flow conditions. Under the current management berm configuration (primarily allowing unidirectional South Arm flows to the North Arm), Waterleaf Resources does not influence South Arm concentrations. If bidirectional flow exchange resumes (for example, through management berm lowering or overtopping), Commercial Plant–driven changes in North Arm concentrations can propagate back to the South Arm via North Arm to South Arm flow. In this situation, the impact range for lithium concentrations in the South Arm is calculated to be −0.66% to −1.26% after 10 years. For other constituents, the percentage change of South Arm concentration is calculated to range from 0.00% to −0.11% after 10 years (Table 7).

Table 7. Long-term Impact to South Arm Chemistry from Commercial Operations

Component	Scenario	Initial Concentration (mg/L)	Impact on Concentrations at 10 Years (mg/L)	% of Initial Concentration
Boron	1d	21	−0.006	−0.03
Boron	1e	21	−0.011	−0.05
Bromine	1d	58	−0.034	−0.06
Bromine	1e	58	−0.064	−0.11
Chloride	1d	81,547	+0.219	0.00
Chloride	1e	81,547	+0.421	0.00
Lithium	1d	29	−0.187	−0.66
Lithium	1e	29	−0.360	−1.26
Magnesium	1d	5,679	−0.045	0.00
Magnesium	1e	5,679	−0.086	0.00
Potassium	1d	3,390	+0.002	0.00
Potassium	1e	3,390	+0.004	0.00

Definitions: mg/L = milligrams per liter; 1d = mid lake level with bidirectional flows per USGS 2022 data; 1e = mid lake level with bidirectional flows per USGS 2023 data

Waterleaf Resources determined that long-term impacts from the Commercial Plant's operation to South Arm chemistry will be *de minimis* based on the mass balance models for various configurations of the causeway opening management berm and mass balance models for long-term chemistry impacts to the North Arm. Therefore, the Commercial Plant's operation will result in no negative impact to South Arm chemistry.

7.2.2 Evaluation of Impacts to GSL Biota and Habitat

Evaluation of impacts to GSL biota (R317-16-3(4)(f)(ii)(C)(I) and (C)(II)).

This section describes the short- and long-term impacts of the Commercial Plant's operation to North Arm (Gunnison Bay) and South Arm (Gilbert Bay) biota and habitat.

Short- and Long-term North Arm Biota Impacts

Waterleaf Resources evaluated the short- and long-term impacts to North Arm biota (archaea, algae, bacteria, and fungi) from the Commercial Plant's operation by reviewing the Biota Monitoring Report (see Appendix C, *Biota Monitoring Report*, of this application's Appendix D, *Final Monitoring Report*) that was conducted during the Demonstration Plant's operation and is summarized in Section 5.1.2, *North Arm GSL Biota*.

Short-term impacts to North Arm biota (algae, archaea, bacteria, and fungi) were determined by comparing biota that was conveyed through the Demonstration Plant's intake pipe system and biota that was discharged back to the North Arm. During the Demonstration Plant's operation, algae, when present during the summer months, was removed by the filtration system; however, the report found that the algae and bacteria remaining survived to be discharged back to the North Arm. The North Arm biota study also included inoculation studies. The study compared growth rates in sterile water (control), influent and discharge flows, and a combination of discharge and North Arm brine. When biota were inoculated into all samples, growth rates followed standard curves.

The Commercial Plant's operation will include process changes and scaled-up equipment for both raw brine and depleted brine flows due to increased flows and capacity. Waterleaf conducted facility mass balance analyses to identify the anticipated changes in discharge concentrations due to these process and scaled-up equipment, as discussed in Section 4.1.2, *Chemical Characteristics*, and Section 8, *Summary of Changes Made as a Result of the Demonstration Plant's Operation*.

The addition of manganese treatment to reduce manganese discharge concentrations could affect the biota in the Commercial Plant prior to discharge. However, as discussed in Section 8, no residual chlorine from the manganese treatment procedure is anticipated in the discharge flow to the North Arm. Commercial Plant discharges will be continuously monitored for residual chlorine to verify that North Arm biota is not affected by the manganese treatment process.

Monitoring during the Demonstration Plant's operation indicated residual hypochlorite was nondetect in discharge flow due to complete reaction of the chlorine by sulfite addition. The same outcome from the Commercial Plant's process is anticipated because the oxidant dosing and sulfite treatment steps will follow the same reaction pathways.

Therefore, Waterleaf Resources asserts that biota in the North Arm will not be affected by manganese treatment operations, based on the Biota Study results and process controls to mitigate residual chlorine.

Seasonality (variations in air and brine temperatures) affects the presence and growth of biota in the hypersaline brine of the North Arm. As the Biota Monitoring Report demonstrates, the growth of biota (when present) in the Demonstration Plant's discharge support the conclusion that long-term impacts to biota will be negligible compared to seasonal effects.

Waterleaf Resources asserts that short- and long-term harmful impacts to survival, reproduction, or growth to North Arm biota from the Commercial Plant's operation will be insignificant and that no negative impact to North Arm biota will result due to the Commercial Plant's operation.

Short- and Long-term North Arm Habitat Impacts

North Arm habitat, described in Section 5.1.1, *North Arm GSL Habitat*, is limited to microbialites. Waterleaf Resources conducted a survey to identify potential microbialites in the lakebed easement area where intake and discharge infrastructure will be constructed, maintained, and operated (see Appendix F). As noted in the survey, no microbialites were observed in the easement area; therefore, no short-term (construction-related) or long-term (operation and maintenance–related) activities conducted in the lakebed easement area will have a negative effect on North Arm habitat. Therefore, the Commercial Plant's operation will result in no negative impact to North Arm habitat.

Short- and Long-term Impacts to South Arm (Gilbert Bay) Biota and Habitat

This short- and long-term analysis of the Commercial Plant's operation provides quantitative data to support the assertion that the Commercial Plant will not impact South Arm biota. Dispersion modeling results indicate that the Commercial Plant will not directly impact South Arm characteristics because the discharge flows will completely mix with North Arm brine near the terminus of the outfall pipe.

The mass balance model, as shown above in Table 7, demonstrates that the long-term changes in South Arm chemistry will be *de minimis*. Therefore, the Commercial Plant's operation will result in no negative impact to South Arm biota and habitat.

In conclusion, based on the short- and long-term analyses conducted, Waterleaf Resources determines that the Commercial Plant will not negatively impact North Arm and South Arm chemistry, volume, biota, and habitat.

8 Summary of Changes Made as a Result of the Demonstration Plant's Operation

Summary of any changes made as a result of the feasibility assessment (R317-16-5(2)).

The Demonstration Plant operated from February through August 2025 to validate Waterleaf Resources' proprietary DLE IX process. No changes in the Commercial Plant's proprietary DLE IX process have been made due to the results of chemical and biota testing during the Demonstration Plant's operation. Ancillary facilities and systems will be added to the Commercial Plant due to higher process flow (scale-up) and the preparation of the final commercial product, lithium carbonate. The following changes to the Commercial Plant's operations specifically, the treatment of the depleted brine to reduce manganese, equipment scale-up, and other process changes are discussed below.

8.1 Manganese Treatment

Demonstration Plant compliance monitoring indicated an increase in manganese discharged when compared to influent manganese concentrations. Waterleaf Resources conducted testing and data analyses to determine that manganese could be treated to reduce discharge concentrations, so that discharge concentrations from the Commercial Plant would be comparable to influent concentrations (background North Arm concentrations).

The Commercial Plant will include a treatment process to reduce manganese in the depleted lithium brine to influent concentration (background) levels prior to filtration and discharge (see Figure 2). The manganese treatment process will precipitate soluble manganese by adding sodium hypochlorite prior to the MMF. The solids will be captured in the depleted brine waste solids and taken off site for disposal. Residual chlorines will be neutralized with sodium sulfite prior to conveying the depleted brine to the storage pond and discharge to the North Arm. Continuous residual chlorine monitoring will be conducted on the discharge to verify no impact to North Arm biota, as described in Section 6, *Monitoring and Inspection Plan*.

The annual amount of chemicals anticipated to be used in the manganese treatment process is detailed in the facility mass balance analysis (see Appendix J).

Monitoring during the Demonstration Plant's operation indicated residual hypochlorite was nondetect in discharge flow due to complete reaction of the chlorine by sulfite addition. The same outcome from the Commercial Plant's process is anticipated because the oxidant dosing and sulfite treatment steps follow the same reaction pathways.

Table 8 compares the anticipated Commercial Plant manganese discharge concentration to the Demonstration Plant's flow-weighted optimal period discharge concentration. This analysis is also discussed in Section 4.1.2, *Chemical Characteristics*.

Table 8. Changes Anticipated in Manganese Concentrations for Commercial Plant Discharges due to Treatment

Metal Constituent	Demonstration Plant Flow-weighted Optimal Period Discharge Concentration[a] (mg/L)	Commercial Plant Anticipated Average Discharge Concentration[b] (mg/L)
Manganese	0.19	0.04

Definitions: mg/L = milligrams per liter

[a] Flow-weighted average discharge concentration during the Demonstration Plant's optimal period of operation. See Section 4.1.2.

[b] Anticipated average discharge concentration. See Table 1.

8.2 Equipment Scale-up

Commercial Plant will be constructed and operated to process higher annual volumes of North Arm brine than the Demonstration Plant (18,230 af/yr vs. 3.35 af/yr, respectively); the physical infrastructure elements and process facilities will be scaled up accordingly. The Commercial Plant's facilities are discussed in Section 2.1, *Lithium Extraction Process*.

The temporary carbon steel tanks used during the Demonstration Plant's operation will be replaced with lined bine storage ponds and concrete basins. Therefore, Waterleaf Resources does not anticipate that the spikes of metal (chromium, copper, iron, and nickel) concentrations that were observed during the Demonstration Plant's operation will occur during operation of the Commercial Plant. As a result, the anticipated discharge concentrations of chromium, copper, iron, and nickel from the Commercial Plant will be different from the Demonstration Plant's flow-weighted average discharge concentrations (see Table 9). The anticipated concentrations are calculated from the facility mass balance as described in Section 4.1.2 and Appendix J.

Table 9. Changes Anticipated in Metals Concentrations for Commercial Plant Discharges from Eliminating Carbon Steel Tanks

Metal Constituent	Demonstration Plant Flow-weighted Average Discharge Concentration[a] (mg/L)	Commercial Plant Anticipated Average Discharge Concentration[b] (mg/L)
Chromium	0.10	0.10
Copper	0.044	0.035
Iron	0.933	0.567
Nickel	0.037	0.035

Definitions: mg/L = milligrams per liter

[a] Flow-weighted average discharge concentrations during the Demonstration Plant's optimal period of operation.

[b] Anticipated average discharge concentrations. See Table 1.

The Commercial Plant will include an upsized RO water treatment system to treat groundwater compared to the Demonstration Plant. The concentrate from the RO system

will be added to the depleted brine discharge flow, filtered, and then discharged to the North Arm (see Figure 1). In addition, salt concentrations will be affected by the addition of recycling and recirculation systems and the manganese treatment process. These three process changes in Commercial Plant operations will vary the discharge of salt constituents (calcium, chloride, magnesium, potassium, sodium, and sulfate) and TDS compared to the Demonstration Plant's average salt discharge concentrations and TDS concentration, as shown in Table 10. The anticipated concentrations are calculated from the facility mass balance as described in Section 4.1.2 and Appendix J.

Table 10. Changes Anticipated in Salinity Concentrations for Commercial Plant Discharges due to Process Changes

Salinity Constituent	Demonstration Plant Flow-weighted Average Discharge Concentration[a] (mg/L)	Commercial Plant Anticipated Average Discharge Concentration[b] (mg/L)
Calcium	300.7	300.2
Chloride	176,883	182,006
Magnesium	14,101	14,462
Potassium	8,442	8,626
Sodium	93,554	97,742
Sulfate	26,100	27,202
TDS	323,514	330,728

Definitions: mg/L = milligrams per liter; TDS = total dissolved solids

[a] Flow-weighted average discharge concentrations during the Demonstration Plant's optimal period of operation.

[b] Anticipated average discharge concentrations. See Table 1.

8.3 Recycling and Recirculation Processes

The Commercial Plant's lithium discharge concentration will decrease compared to the Demonstration Plant's flow-weighted concentration over the optimal period. Recirculation and recycling processes will be incorporated into the Commercial Plant, and these systems did not exist during operation of the Demonstration Plant. These systems are piped to recycle flow to the influent (feed) brine system. Due to these systems, the Commercial Plant's anticipated lithium discharge concentration is 14.2 mg/L (see Table 1), compared to the Demonstration Plant's flow-weighted optimal-period discharge concentration of 14.8 mg/L.

8.4 Other Changes

Other system changes anticipated due to scaling up the Commercial Plant include the following:

- Due to its temporary nature, the Demonstration Plant produced a liquid product that was transported for further processing off site. This processing resulted in about 4% total water loss during the plant's operation. The Commercial Plant will produce a

solid lithium carbonate product, and this process will result in nonconsumptive use of brine water.

- Solids management will be required for filtration systems. All solids generated will be managed and transported off site (see Section 2.4, *Generated Waste*). In addition, salts may precipitate in the raw brine and depleted brine ponds; routine maintenance will remove the accumulated salts to maintain capacity. Salts removed will be managed and transported off site.
- The operation of the Demonstration Plant provided valuable data regarding the seasonal changes of the North Arm brine in relation to pH balancing. As a result, Waterleaf Resources has determined that continuously adjusting the pH of the influent brine may not be necessary, and pH will instead be adjusted as necessary based on influent characteristics.

These changes, as discussed above, will be made to the Commercial Plant's facilities to accommodate the higher volume of brine processed and product manufactured compared to the Demonstration Plant.

9 Demonstration Plant's Impact on the GSL North Arm

Summary of findings establishing the operator's feasibility assessment had no negative impact on the biota or chemistry of the GSL (R317-16-5(3)).

The chemistry and biota monitoring conducted during the operation of the Demonstration Plant supports Waterleaf Resources' assertion that the Demonstration Plant had no negative impact on the biota or chemistry of the North Arm of the GSL. This assertion is based on the impact evaluation presented in Section 6, *Evaluation of No Negative Impact to the GSL from Demonstration Plant Operation*, of the *Final Monitoring Report* (Appendix D) and the supporting evidence is summarized below.

The chemistry and biota monitoring results obtained during the operation of the Demonstration Plant are summarized in Section 10, *Data and Data Analyses during Demonstration Plant Operation*, of this application and detailed in the *Final Monitoring Report* (Appendix D).

Negative impact is defined in R317-16-2(16) and has four components: negatively alters (1) salinity or water chemistry, (2) volume or water levels, (3) habitat, and/or (4) biota.

The chemistry monitoring results and analyses provided evidence that the Demonstration Plant's discharges had no negative impact on the salinity or water chemistry of the North Arm of the GSL. Biota monitoring and analyses indicated that North Arm biota (archaea, algae, bacteria, and fungi), when present in the raw brine, were present in the Demonstration Plant's discharge flow. Growth experiments resulted in normal growth curves that support no negative impact of North Arm biota from the Demonstration Plant's discharge. Flow monitoring confirmed that the North Arm's volumes and water levels were not impacted (decreased) by the Demonstration Plant's discharges, thereby providing evidence of the nonconsumptive nature of the IX process. A preconstruction

inventory of GSL lakebed areas where the Demonstration Plant's infrastructure was constructed and operated revealed no presence of habitat (microbialites).

These impacts are discussed in the *Final Monitoring Report* (Appendix D, Section 6). In conclusion, the Demonstration Plant had no negative impact on the biota or chemistry of the GSL.

10 Data and Data Analyses during the Demonstration Plant's Operation

All data and data analysis related to North Arm GSL biota and chemistry derived from the feasibility assessment (R317-16-5(4)).

Biological and chemical data collected during the feasibility assessment (Demonstration Plant) include:

- Weekly physical constituent monitoring on influent and discharge flows
- Weekly chemical constituent monitoring on influent and discharge flows
- Weekly visual observation of influent and discharge flows
- Continuous flow monitoring and reporting of influent and discharge flows
- Three biota monitoring events on influent and discharge flows
- Habitat survey in GSL area

These data and analyses are summarized in this report; details are provided in the *Final Monitoring Report* (Appendix D).

10.1 Demonstration Plant Operation Summary

The Demonstration Plant operated for 28 weeks in 2025. Table 11 summarizes the compliance monitoring, significant equipment and process changes, and related water quality observations that occurred during the Demonstration Plant's operation.

Waterleaf Resources conducted additional analyses to evaluate discharge concentrations as related directly to the operational/equipment or process changes during the Demonstration Plant's operation. This analysis resulted in detailed discharge concentration graphs annotated with operational changes (shown in Appendix I, *Demonstration Plant Operation and Relation to Water Quality*).

Table 11. Demonstration Plant Operation Changes and Monitoring Events

Week	Sampling Date	Compliance Sampling	Notes	Significant Equipment and/or Process Changes	Discharge Water Quality Variations Due to Changes
—	—	—	Commissioning phase	No discharge	
1	2/6/25	✓	Start-up operations		Spike in discharge concentration of some metal concentrations due to steel tanks
2	2/13/25	✓	Start-up operations		
3	2/20/25	—	No discharge		
4	2/26/25	✓	Start-up operations		
5	3/425	✓	Start-up operations		
6	3/13/25	✓	Equipment validation		
7	3/18/25	✓	Equipment validation	Upgrade IXM	
8	3/25/25	✓	Equipment validation		
9	4/2/25	✓	Equipment validation		
10	4/8/25	✓	Equipment validation	Change configuration of IX vessel	
11	4/15/25	✓	Equipment validation	Upgrade IXM	
12	4/22/25	✓	Equipment validation		
13	5/1/25	✓	Equipment validation		
14	5/6/25	✓	Equipment validation		
15	5/12/25	—	No discharge	Raw brine multimedia filter installed Depleted brine filter press added	Decrease in TSS
16*	5/20/25	✓	Performance run		Spike in some metals concentrations due to steel tanks
17*	5/29/25	✓	Performance run		
18*	6/3/25	✓	Performance run		
19*	6/12/25	✓	Uniform operation		
20*	6/17/25	✓	Uniform operation	Depleted brine multimedia filter installed	Spike in some metal concentrations due to steel tanks
21*	6/24/25	✓	Uniform operation		
22*	7/1/25	✓	Uniform operation		
23*	7/10/25	✓	Uniform operation		
24*	7/15/25	✓	Uniform operation		
25*	7/22/25	—	No discharge	5-mm filter screen installed	
26*	7/29/25	✓	Uniform operation		
27*	8/7/25	✓	Uniform operation		
28*	8/12/25	✓	Uniform operation		

Definitions: IX = ion exchange; IXM = ion exchange media; mm = millimeter; TSS = total suspended solids

* Weeks 16–28 are determined to be the Demonstration Plant's optimal period of operation.

The Demonstration Plant began flowing GSL brine on January 11, 2025, initiating the commissioning phase. During early commissioning, polymer ultrafiltration (UF) was used for raw brine filtration to supply clarified brine to the DLE unit. There was no Demonstration Plant discharge to the North Arm during the commissioning phase. On February 2, 2025, the raw brine filtration system was upgraded from polymer UF to ceramic UF to improve uptime and operational stability. Discharges to the North Arm began this week; the first UPDES compliance monitoring event occurred on February 6, 2025. This upgrade did not result in any change to discharge concentrations because both systems perform physical solid–liquid separation and produce comparable filtrate quality.

During start-up operations, visual observations and compliance monitoring confirmed the presence of rust flakes and metal concentration spikes, respectively, in the discharge flow. These data provided evidence of corrosion in the carbon steel tanks. Rust flakes and the elevated metal concentrations in the discharge flow dissipated after about 6 weeks.

The IX module was transitioned to Generation 4 media on March 15, 2025, marking the start of the ramp-up and optimization phase. An upgrade to the IX vessel configuration was completed on April 5, 2025, to support higher DLE performance. Subsequently, on April 11, 2025, the IX module was upgraded to Generation 5 media. Collectively, these improvements increased lithium recovery in the DLE system, resulting in lower lithium concentrations in the discharge. In addition, system water consumption was optimized, reducing dilution and causing discharge total dissolved solids (TDS) to more closely match influent concentrations.

In parallel, Waterleaf Resources began preparations for implementing the MMF for raw brine and a filter press for depleted brine handling. This configuration was fully operational on May 10, 2025. A GSL performance run was conducted from May 20, 2025, through June 10, 2025, as required by FFSL. Compared to ultrafiltration, the MMF system reduced the fraction of brine by passing the DLE process, further lowering lithium concentrations in the discharge. The MMF system also provides targeted solids removal, primarily removing particles larger than approximately 4 microns in diameter.

The MMF units used in the Demonstration Plant are constructed of carbon steel. Due to the corrosive nature of GSL brine, trace amounts of iron, copper, and nickel leached from the steel tanks into the discharge, causing a temporary spike in metals concentrations. Additionally, the primary MMF filtration media is glass (silica-based), which resulted in temporary modest increases in silica concentrations in the discharge. These temporary increases decreased to raw brine intake levels after about 4 weeks of commissioning for each MMF. The expected lifetime of the MMF media is about 5 years, so that the temporary increase in silica will have a very low time-average value when considering the lifetime impacts.

On June 15, 2025, the depleted brine filtration system was upgraded to MMF. This final configuration of the Demonstration Plant operated through the end of operation on August 15, 2025. Like the raw brine MMF system, the depleted MMF used glass-based media and carbon steel tanks. As a result, minor increases in discharge silica

concentrations were observed, along with very small increases in iron, copper, and nickel due to corrosion.

As mentioned previously, Appendix I contains the results of analyses to correlate changes in discharge concentrations with operational changes. Through these analyses, specific constituents could be shown to respond to operational changes. This analysis is provided in Appendix I and supports the determination of the Demonstration Plant's optimal period of operation.

10.2 Chemistry Data

The chemistry data collected and analyzed during the operation of the Demonstration Plant are summarized in this section and detailed in the *Final Monitoring Report* (Appendix D), including analytical laboratory results tables.

10.2.1 Demonstration Plant Average Influent and Discharge Concentrations

Influent and discharge flow samples were collected during the 28-week operation of the Demonstration Plant. The data include (1) weekly composite influent and discharge sampling and (2) laboratory and field analyses conducted on influent and discharge flows for over 40 chemical constituents, as required by the UPDES permit and GSL Mineral Extraction Facility Operator Certification by rule. All laboratory analyses were conducted by a state-certified analytical laboratory and included Level IV laboratory data quality documentation.

Average influent and discharge results from all compliance monitoring is summarized in Table 12 along with minimums and maximums reported, minimum detection limits (MDLs), and State-specified MDLs. These concentrations represent averages of all compliance monitoring data collected over the entire Demonstration Plant operation. As reported in the *Final Monitoring Report* (Appendix D), the chemistry monitoring results provided evidence that the Demonstration Plant's discharges had no negative impact on the salinity or water chemistry of the North Arm of the GSL.

Table 12. Demonstration Plant Average Concentrations (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	MDL (mg/L)	UPDES-specified MDL (mg/L)
Alkalinity	569 (526/599)	360 (119/504)	0.2	NA
Aluminum, total	1.7 (ND/5.2)	1.6 (ND/5.1)	1.2	NA
Arsenic, total	0.477 (0.361/0.620)	0.322 (0.054/0.483)	0.0044	0.180[1]
Barium, total	0.190 (ND/0.342)	0.169 (ND/0.322)	0.057	NA
Bicarbonate	569 (526/599)	360 (119/504)	0.2	NA
BOD	7.4 (ND/16)	6.7 (ND/13)	2.0	NA
Boron, total	60.3 (50.6/65.5)	56.7 (46.7/62.8)	0.61[2]	NA
Bromide	174 (140/201)	160 (132/186)	0.5[3]	NA
Cadmium, total	ND	ND	0.0012[4]	0.0052
Calcium, dissolved	302 (277/327)	288 (258/318)	0.7[5]	NA
Carbonate	ND	ND	0.2	NA
COD	2,420 (ND/7,020)	1,617 (ND/4,300)	617.0[6]	NA
Chloride	181,400 (159,000/194,00)	168,360 (144,000/181,000)	180.0	NA
Chromium, total	0.072 (0.014/0.250)	0.069 (ND/0.236)	0.0062[7]	0.0166
Copper, total	0.0391 (0.0182/0.0759)	0.0470 (0.0052/0.1360)	0.0182[8]	0.067
Cyanide, total	ND	ND	0.022[9]	0.0093
Hardness	59,692 (55,400/67,100)	56,256 (48,600/62,700)	11.7[10]	NA
Hydroxide	ND	ND	0.2	NA
Iron, total	0.58 (ND/0.80)	1.57 (ND/16.4)	0.57	NA
Lead, total	ND	ND[11]	0.0087[11]	0.0465
Lithium, total	67.7 (55.1/81.6)	30.8 (9.33/54.8)	0.403[12]	NA
Magnesium, total	14,312 (13,300/16,100)	13,480 (11,600/15,000)	2.4[13]	NA
Manganese, total	0.0411 (0.0264/0.0794)	0.2385 (0.0554/0.91)	0.0159[14]	NA
Mercury, total	33.2 ng/L (ND/211 ng/L)	39.9 ng/L (ND/109 ng/L)	9 ng/L[15]	0.000022
Molybdenum, total	0.136 (0.111/0.218)	0.111 (0.0169/0.312)	0.038[16]	NA
Nickel, total	0.049 (0.011/0.29)	0.052 (0.009/0.279)	0.0112[17]	0.376
Nitrate	ND	ND	6.64[18]	NA
Nitrite	ND	ND	0.01	NA
Oil and grease	ND	ND	5	NA
Potassium, total	8,662 (8,050/9,650)	8,138 (6,860/9,000)	8.6[19]	NA
Selenium, total	0.308 (0.074/0.908)	0.301 (0.012/0.933)	0.0141[20]	0.0079
Silica, total	5.3 (ND/7.7)	5.7 (ND/9.2)	4.2	NA

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Table 12. Demonstration Plant Average Concentrations (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	MDL (mg/L)	UPDES-specified MDL (mg/L)
Silicon [21]	2.5 (2.0/3.6)	2.7(2.0/4.3)	NA	NA
Silver, total	ND	ND	0.008[22]	0.0899
Sodium, dissolved	92,920 (79,000/112,000)	86,568 (61,400/110,000)	343[23]	NA
Sulfate, dissolved	24,220 (10,200/28,100)	22,400 (12,600/28,200)	49.4[24]	NA
TDS	340,040 (311,000/363,000)	312,640 (259,000/362,000)	1,000[25]	NA
TSS	111 (ND/530)	106 (6/454)	3[26]	NA
Zinc, total	ND	ND	0.05[27]	0.675

Definitions: BOD = biological oxygen demand; COD = chemical oxygen demand; max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable (no UPDES-specified MDL); ND = nondetect (not detected above MDL); ng/L = nanograms per liter; TDS = total dissolved solids; TSS = total suspended solids; UPDES = Utah Pollutant Discharge Elimination System

1. MDL for arsenic was reported as 0.0088 mg/L for week 1 and 0.022 mg/L for week 24.
2. MDL for boron was reported as 12.1 mg/L for week 9.
3 MDL for bromide varied between 0.5 and 4.7 mg/L.
4. MDL for cadmium was reported as 0.0061 mg/L for week 24.
5. MDL for calcium was reported as 14.6 mg/L for week 24.
6. MDL for COD was reported as 154 mg/L for weeks 1 through 11, 308 mg/L for week 12, and 617 mg/L for weeks 13 through 28.
7. MDL for chromium varied between 0.0062 and 0.0618 mg/L.
8. MDL for copper was reported as 0.0364 mg/L for week 1 and 0.0036 mg/L for week 5.
9. MDL for cyanide varied between 0.004 and 0.132 mg/L.
10. MDL for hardness varied between 11.7 and 234 mg/L.
11. MDL for lead was reported as 0.0174 mg/L for week 1 and 0.0435 mg/L for week 24; discharge value was reported as 0.015 mg/L for week 20.
12. MDL for lithium was reported as 8.07 mg/L for week 8.
13. MDL for magnesium was reported as 48 mg/L for weeks 8, 14, 15, 18, and 24, and 4.8 mg/L for week 4.
14. MDL for manganese was reported as 0.0318 mg/L for week 1.
15. MDL for mercury was reported as 44.9 ng/L for week 1 and 70 ng/L for week 27.
16. MDL for molybdenum was reported as 0.0075 mg/L for week 1 and 0.0188 mg/L for week 24.
17. MDL for nickel was reported as 0.0223 mg/L for week 1 and 0.112 mg/L for week 17.
18. MDL for nitrate was reported as 33.2 mg/L for week 10.
19. MDL for potassium was reported as 171 mg/L for weeks 8, 16, 18, and 24.
20. MDL for selenium was reported as 0.0283 mg/L for week 1 and 0.0707 mg/L for week 24.
21. Silicon is a calculated value based on UDWQ equation using silica data.
22. MDL for silver was reported as 0.017 mg/L for week 1 and 0.042 mg/L for week 24.
23. MDL for sodium was reported as 172 mg/L for week 6.
24. MDL for sulfate was reported as 247 mg/L for weeks 1, 7, 9, 10, 12, 17–20, 23, and 26–28.
25. MDL for TDS was reported as 20 mg/L for week 4.
26. MDL for TSS varied between 0.8 and 8 mg/L.
27. MDL for zinc was reported as 0.09 mg/L for week 1.

10.2.2 Demonstration Plant Flow Weighted Concentrations and Weekly Loads

Waterleaf Resources conducted analyses on the Demonstration Plant's chemistry data, using total weekly flow, to prepare flow-weighted average weekly influent and discharge concentrations for all constituents over the entire Demonstration Plant operations, per UDWQ's completeness review comment. The flow-weighted average influent and discharge concentration data, over the entire operation of the Demonstration Plant, are summarized in Table 13. Weekly influent and discharge loads, for all weeks of operation, are shown in Table 14 and Table 15, respectively, for all constituents. Flow-weighted average concentrations and weekly loads were not calculated for constituents with nondetect monitoring results.

Table 13. Demonstration Plant Flow-weighted Influent and Discharge Concentrations

Constituent	Influent Average (Min/Max) (mg/L)	Discharge Average (Min/Max) (mg/L)
Alkalinity	572 (566/599)	342 (119/504)
Aluminum, total	1.64 (1.2/5.2)	1.4 (1.2/5.1)
Arsenic, total	0.49 (0.36/0.62)	0.3 (0.054/0.48)
Barium, total	0.2 (0.06/0.34)	0.18 (0.06/0.32)
Bicarbonate	573 (526/599)	342 (119/504)
BOD	6.2 (2.0/16)	7.5 (2/13)
Boron, total	60.82 (50.60/65.50)	58.64 (46.70/62.80)
Bromide	175 (140/201)	164 (132/186)
Cadmium, total	ND (<0.0012) (ND/ND)	ND (<0.0012) (ND/ND)
Calcium, dissolved	304.85 (277/327)	296.06 (258/318)
Carbonate	ND (<0.2) (ND/ND)	ND (<0.2) (ND/ND)
COD	1,770 (617/7020)	1,103 (617/4,300)
Chloride	181,683 (159,000/194,000)	174,611 (144,000/181,000)
Chromium, total	0.09 (0.006/0.25)	0.08 (0.003/0.24)
Copper, total	0.04 (0.018/0.076)	0.04 (0.003/0.24)
Cyanide, total	ND (<0.022) (ND/ND)	ND (<0.022) (ND/ND)
Hardness	60,337 (55,400/67,100)	58,403 (48,600/62,700)
Hydroxide	ND (<0.2) (ND/ND)	ND (<0.2) (ND/ND)
Iron, total	0.57 (0.57/0.80)	0.84 (0.57/16.4)
Lead, total	ND (<0.0087) (ND/ND)	ND (<0.0087) (ND/ND)
Lithium, total	67.78 (55.1/81.6)	23.2 (9.33/54.8)
Magnesium, total	14,472 (13,300/16,100)	13,996 (11,600/15,000)
Manganese, total	0.036 (0.026/0.079)	0.180 (0.055/0.91)
Mercury, total	33.51 ng/L (9 ng/L / 211 ng/L)	31.31 ng/L (9 ng/L / 109 ng/L)
Molybdenum, total	0.14 (0.11/0.22)	0.12 (0.02/0.31)
Nickel, total	0.04 (0.01/0.29)	0.04 (0.01/0.28)

(*Continued on next page*)

Table 13. Demonstration Plant Flow-weighted Influent and Discharge Concentrations

Constituent	Influent Average (Min/Max) (mg/L)	Discharge Average (Min/Max) (mg/L)
Nitrate	ND (<6.64) (ND/ND)	ND (<6.64) (ND/ND)
Nitrite	ND (<0.01) (ND/ND)	ND (<0.01) (ND/ND)
Oil and grease	ND (<5) (ND/ND)	ND (<5) (ND/ND)
Potassium, total	8,708 (8,050/9,650)	8,380 (6,800/9,000)
Selenium, total	0.41 (0.07/0.91)	0.41 (0.01/0.93)
Silica, total	5.68 (4.2/7.7)	6.45 (4.2/9.2)
Silicon	2.18 (0.0/3.6)	1.85 (0.0/4.3)
Silver, total	ND (<0.008) (ND/ND)	ND (<0.008) (ND/ND)
Sodium, dissolved	95,553 (79,000/112,000)	91,826 (61,400/110,000)
Sulfate, dissolved	25,573 (10,200/28,100)	25,159 (12,600/28,200)
TDS	344,723 (311,000/363,000)	324,041 (259,000/362,000)
TSS	69 (3/530)	58 (6/454)
Zinc, total	ND (<0.05) (ND/ND)	ND (<0.05) (ND/ND)

Definitions: BOD = biological oxygen demand; COD = chemical oxygen demand; MDL = minimum detection limit; mg/L = milligrams per liter; Max = maximum; Min = minimum; ND = nondetect (not detected above MDL); ng/L = nanograms per liter; TDS = total dissolved solids; TSS = total suspended solids

Table 14. Demonstration Plant Weekly Influent Load

Demonstration Plant - Weekly Influent Mass	week	1	2	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	26	27	28
		2/6/2025	2/13/2025	2/25/2025	3/4/2025	3/13/2025	3/18/2025	3/25/2025	4/2/2025	4/8/2025	4/15/2025	4/22/2025	5/1/2025	5/6/2025	5/20/2025	5/29/2025	6/3/2025	6/12/2025	6/17/2025	6/24/2025	7/1/2025	7/10/2025	7/15/2025	7/29/2025	8/7/2025	8/12/2025
Influent and Effluent sampling Parameter	Units	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**	**Intake**
Volume represented by Sampling Period (Flow Totaled Value)	gal	31,649	2,259	3,844	12,080	9,740	7,010	26,600	50,561	71,518	50,415	44,757	6,853	25,543	51,698	38,231	39,237	45,582	32,638	57,721	93,415	56,750	73,856	58,657	74,641	144,614
Biochemical Oxygen Demand (BOD)	kg	1.20	0.10	0.10	0.40	0.40	0.40	0.50	1.30	1.90	1.90	1.40	0.20	1.20	2.10	1.30	1.50	1.20	0.60	0.40	1.80	1.30	1.40	0.40	1.70	1.10
Carbonate	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chemical Oxygen Demand (COD)	kg	568.30	59.90	97.40	186.30	223.80	24.50	209.10	334.50	446.10	453.60	279.10	31.10	115.90	234.50	173.40	91.50	106.30	345.40	523.60	459.00	493.40	446.70	554.30	423.20	546.60
Oil & Grease	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Alkalinity	kg	67.60	5.10	7.80	25.10	20.50	15.50	58.10	109.90	155.20	109.80	99.10	14.80	55.20	111.20	79.80	82.90	90.60	67.90	122.80	205.20	115.40	163.00	132.80	166.70	321.40
Total Aluminum	kg	0.144	0.015	0.022	0.055	0.044	0.056	0.191	0.229	0.541	0.305	0.203	0.041	0.241	0.235	0.260	0.771	0.276	0.321	0.262	0.424	0.257	0.335	0.266	0.339	1.000
Total Arsenic	kg	0.074	0.004	0.007	0.023	0.015	0.011	0.037	0.081	0.122	0.073	0.076	0.011	0.044	0.075	0.069	0.063	0.103	0.067	0.127	0.215	0.077	0.130	0.114	0.166	0.277
Total Barium	kg	0.021	0.002	0.001	0.008	0.007	0.005	0.018	0.041	0.064	0.030	0.025	0.005	0.018	0.034	0.029	0.027	0.024	0.026	0.040	0.071	0.039	0.095	0.044	0.054	0.107
Total Bicarbonate	kg	67.60	5.10	7.80	25.10	20.50	15.50	58.10	109.90	155.20	109.80	99.10	14.80	55.20	111.20	79.80	82.90	90.60	67.90	122.80	205.20	115.40	163.00	132.80	166.7	321.4
Total Boron	kg	6.10	0.54	0.94	2.70	2.20	1.60	6.20	10.20	15.70	11.40	10.60	1.60	5.80	11.90	8.60	8.90	10.20	7.00	13.10	22.10	12.60	17.10	14.20	18.1	35.8
Total Bromide	kg	19.70	1.50	2.90	7.40	6.10	4.50	17.10	29.60	47.00	32.00	28.60	4.50	16.20	39.30	25.90	20.80	31.20	21.80	39.70	62.10	39.00	50.80	42.10	46.3	96.8
Total Cadmium	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Calcium	kg	34.60	2.70	4.60	13.30	11.20	7.90	31.40	56.80	78.40	57.00	51.40	7.40	27.40	54.10	43.40	44.00	51.70	37.00	64.40	111.60	62.00	89.10	72.50	87.50	177.70
Total Chloride	kg	22730.30	1579.70	2630.00	7945.30	6627.10	5140.60	17797.00	32872.70	42983.70	32777.80	30114.30	4611.00	16896.70	36543.20	26445.90	26251.90	32047.80	22947.10	40146.10	65678.20	39470.80	52485.00	41905.70	51914.30	101675.20
Total Chromium	kg	0.011	0.00024	0.00027	0.00092	0.00050	0.00051	0.0023	0.0053	0.0069	0.0030	0.0045	0.0006	0.0006	0.0012	0.0009	0.0031	0.0322	0.0228	0.0545	0.0833	0.0212	0.0166	0.0131	0.0432	0.0370
Total Copper	kg	0.009	0.00027	0.00095	0.00151	0.00138	0.00100	0.004	0.005	0.007	0.005	0.006	0.001	0.007	0.010	0.005	0.004	0.005	0.002	0.006	0.009	0.012	0.013	0.008	0.010	0.016
Total Cyanide	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dissolved Solids (TDS)	kg	39359.30	2903.30	4780.50	15479.60	11450.10	8717.80	33583.00	64598.80	87589.50	62506.50	57521.70	8988.80	30703.70	65465.20	49279.00	51762.20	61855.70	43920.30	76583.10	123588.00	75080.30	97432.30	75607.70	99032.20	198430.70
Total Hardness	kg	6627.70	507.20	857.30	2557.10	2209.00	1544.80	6746.80	11543.70	15598.50	10976.80	10066.30	1559.40	5484.20	11353.80	8482.90	8839.60	10372.50	7488.70	12894.80	21786.80	11991.40	16890.10	14389.90	17323.60	35039.70
Total Hydroxide	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Iron	kg	0.068	0.0049	0.0083	0.0365	0.0210	0.0151	0.0573	0.11	0.15	0.11	0.0964	0.0148	0.0550	0.11	0.0824	0.0845	0.0982	0.0703	0.12	0.20	0.12	0.16	0.13	0.1608	0.3116
Total Lead	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Lithium	kg	6.60	0.60	1.00	3.00	2.50	1.80	8.20	12.80	18.00	12.70	11.60	1.80	6.60	13.60	9.60	9.80	10.70	8.00	14.40	24.30	13.30	19.00	15.70	21.10	37.60
Total Magnesium	kg	1591.10	121.30	204.90	611.90	530.20	371.00	1618.80	2771.20	3730.70	2629.80	2419.30	373.00	1313.10	2716.30	2037.60	2120.90	2481.10	1801.20	3098.20	5226.00	2874.50	4048.00	3458.90	4147.50	8418.30
Total Manganese	kg	0.0049	0.00035	0.0012	0.0020	0.0016	0.0012	0.0027	0.0074	0.0093	0.0067	0.0133	0.0010	0.0042	0.0085	0.0043	0.0059	0.0070	0.0047	0.0076	0.0134	0.0084	0.0099	0.0080	0.0089	0.0185
Total Mercury	kg	0.00000108	0.00000019	0.00000032	0.00000128	0.00000094	0.00000063	0.00000233	0.00000172	0.00000692	0.00000438	0.00000371	0.00000071	0.00000232	0.00000455	0.00000369	0.00000403	0.00000405	0.00000312	0.00000196	0.00000770	0.00000588	0.00005891	0.00000508	0.00000254	0.00001257
Total Molybdenum	kg	0.015	0.0012	0.0018	0.0060	0.0045	0.0032	0.011	0.025	0.036	0.025	0.022	0.003	0.011	0.024	0.019	0.019	0.038	0.0200	0.0299	0.0505	0.0298	0.0391	0.0310	0.0403	0.0776
Total Nickel	kg	0.035	0.0003	0.0018	0.0024	0.0017	0.0010	0.0015	0.0025	0.0030	0.0054	0.0029	0.0005	0.0029	0.0055	0.0016	0.0023	0.0041	0.0021	0.0024	0.0040	0.0167	0.0130	0.0246	0.0067	0.0194
Total Nitrate	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nitrite	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Potassium	kg	1028.80	75.10	123.70	387.70	324.00	220.20	922.00	1664.70	2273.50	1635.10	1522.60	229.50	843.90	1618.10	1242.80	1244.40	1466.30	1045.00	1832.80	3163.90	1726.80	2297.60	2139.60	2511.10	4996.30
Total Selenium	kg	0.036	0.001	0.001	0.004	0.003	0.003	0.008	0.022	0.028	0.014	0.017	0.003	0.010	0.020	0.031	0.035	0.126	0.094	0.178	0.321	0.109	0.103	0.105	0.197	0.251
Total Silica	kg	0.646	0.051	0.061	0.192	0.155	0.111	0.422	1.070	1.135	1.182	0.711	0.109	0.406	1.133	0.723	0.786	0.896	0.716	0.916	2.700	1.300	1.8	1.4	1.9	3.3
Total Silicon	kg	0.302	0.024	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.552	0.000	0.000	0.000	0.530	0.338	0.367	0.419	0.335	0.000	1.300	0.612	0.835308252	0.663408202	0.883757815	1.5
Total Silver	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Sodium	kg	9451.00	705.30	1178.40	3653.00	3357.70	2337.10	9723.00	15824.80	23952.00	17875.30	15835.40	2494.60	8998.70	18447.50	13613.10	14342.10	16075.60	12460.50	24436.80	33686.60	20679.20	26214.60	22837.50	25844.30	56850.70
Total Sulfate	kg	2129.50	87.10	310.90	1077.60	846.80	604.10	2362.90	4319.30	5487.90	4573.60	4077.30	647.60	2549.00	5217.70	3641.70	3604.10	4479.80	3392.70	5803.70	9357.40	5684.60	7761.10	6230.40	7843.60	15196.60
Total Suspended Solids (TSS)	kg	45.20	4.50	0.50	2.40	3.50	0.60	7.10	12.40	16.80	16.60	24.70	5.70	38.10	12.10	13.20	33.80	20.80	0.40	2.00	2.50	8.60	4.50	2.20	2.00	8.70
Total Zinc	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Definitions: gal= gallon; kg = kilogram; ND = non detect																										

Table 15. Demonstration Plant Weekly Discharge Load

Demonstration Plant - Weekly Discharge Mass	week	1	2	4	5	6	7	1	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	26	27	28
		2/6/2025	2/13/2025	2/25/2025	3/4/2025	3/13/2025	3/18/2025	3/25/2025	4/2/2025	4/8/2025	4/15/2025	4/22/2025	5/1/2025	5/6/2025	5/20/2025	5/29/2025	6/3/2025	6/12/2025	6/17/2025	6/24/2025	7/1/2025	7/10/2025	7/15/2025	7/29/2025	8/7/2025	8/12/2025
Influent and Effluent sampling Parameter	Units	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**	**Outfall**
Volume represented by Sampling Period (Flow Totaled Value)	gal	469	138	15,064	31,930	4,430	3,400	19,940	57,133	75,641	54,796	39,625	2,598	35,396	38,820	45,438	43,565	38,964	29,642	52,878	97,315	60,562	73,066	94,957	65,374	151,987
Biochemical Oxygen Demand (BOD)	kg	0.011	0.001	0.114	1.100	0.033	0.116	0.151	1.50	1.70	2.30	1.00	0.049	1.70	1.00	1.50	1.60	1.20	0.224	1.400	2.900	1.400	2.200	1.800	1.700	5.200
Carbonate	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chemical Oxygen Demand (COD)	kg	7.20	1.60	160.60	519.00	43.90	11.60	90.40	280.80	257.30	207.10	232.20	9.80	133.80	190.80	106.00	101.60	147.30	268.90	199.90	227.00	641.00	580.00	221.50	247.10	354.50
Oil & Grease	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Alkalinity	kg	0.78	0.21	19.80	48.00	6.30	5.00	30.50	97.20	128.70	104.40	71.90	3.70	65.80	57.80	71.10	51.40	17.50	20.20	68.20	125.40	50.10	77.90	108.80	67.70	166.60
Total Aluminum	kg	0.0021	0.0016	0.097	0.145	0.020	0.022	0.128	0.259	0.343	0.249	0.180	0.016	0.227	0.176	0.206	0.840	0.177	0.213	0.240	0.589	0.275	0.331	0.431	0.297	0.689
Total Arsenic	kg	0.00076	0.00016	0.01202	0.00652	0.00430	0.00311	0.01930	0.06673	0.09693	0.08409	0.05572	0.00267	0.05231	0.04549	0.05548	0.05023	0.05553	0.03552	0.08395	0.17767	0.05952	0.10136	0.12419	0.09514	0.18729
Total Barium	kg	0.00025	0.00017	0.00325	0.01871	0.00251	0.00167	0.00995	0.05010	0.05661	0.02858	0.01977	0.00145	0.02248	0.02348	0.02542	0.02931	0.01841	0.02487	0.03158	0.06989	0.03090	0.07954	0.06174	0.04324	0.10456
Total Bicarbonate	kg	0.78	0.21	19.80	48.00	6.30	5.00	30.50	97.20	128.70	104.40	71.90	3.70	65.80	57.80	71.10	51.40	17.50	20.20	68.20	125.40	50.10	77.90	108.80	67.70	166.60
Total Boron	kg	0.083	0.025	2.90	6.20	0.888	0.690	4.60	11.80	16.50	12.00	9.00	0.57	7.70	8.50	10.10	9.50	8.70	6.20	12.00	22.00	13.10	16.50	20.70	14.90	36.10
Total Bromide	kg	0.26	0.082	8.60	15.90	2.50	2.00	11.90	29.80	46.90	34.40	24.70	1.60	21.70	23.20	29.20	22.90	25.30	20.80	34.80	57.00	39.40	47.20	59.60	40.30	98.20
Total Cadmium	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Calcium	kg	0.49	0.14	14.70	33.30	4.70	3.60	23.20	63.50	80.10	59.70	44.50	2.70	36.70	39.60	50.30	47.40	43.70	33.10	58.60	112.60	64.30	84.50	110.20	73.90	182.70
Total Chloride	kg	289.00	75.00	8256.80	17983.60	2595.50	2056.30	12285.80	34986.10	49750.80	35625.80	23965.10	1679.00	23280.30	25385.90	31087.70	27336.40	26069.20	19720.10	35977.90	66213.10	41206.40	49713.90	61378.10	42997.80	102837.40
Total Chromium	kg	0.00018	0.00002	0.00092	0.00041	0.00032	0.00040	0.00224	0.00924	0.00949	0.00472	0.00572	0.00031	0.00083	0.00091	0.00106	0.00494	0.02209	0.01322	0.04717	0.08240	0.02040	0.01444	0.02190	0.03583	0.03556
Total Copper	kg	0.00023	0.00007	0.00344	0.00063	0.00049	0.00042	0.00314	0.00644	0.00789	0.00539	0.00596	0.00036	0.00741	0.00785	0.00591	0.00530	0.00639	0.00522	0.00800	0.01409	0.01135	0.01610	0.01429	0.01087	0.02551
Total Cyanide	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dissolved Solids (TDS)	kg	492.80	149.50	14919.20	32346.40	4437.50	3688.50	22612.00	66948.70	91781.60	68766.20	49428.10	3328.60	48433.80	48130.40	55992.10	54672.80	38882.80	38207.70	68757.70	95273.30	78749.90	93351.70	109475.60	83771.60	203951.40
Total Hardness	kg	90.10	25.40	2767.50	5914.10	882.50	692.70	4575.20	12849.80	15954.60	11578.40	8672.40	561.60	7398.90	8144.00	9944.60	9403.10	8822.30	6700.30	11852.70	21445.70	12522.20	15936.10	21033.70	14555.00	36021.80
Total Hydroxide	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Iron	kg	0.0020	0.0085	0.0325	0.2824	0.0095	0.0073	0.0430	0.1231	0.1630	0.1181	0.0854	0.0056	0.0763	0.2142	0.4122	0.2141	0.2489	0.2487	0.1699	0.2097	0.1305	0.1574	0.2046	0.2570	0.3275
Total Lead	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Lithium	kg	0.080	0.029	2.10	5.50	0.765	0.608	4.00	9.70	12.80	9.90	7.40	0.215	6.00	2.80	2.50	2.40	2.10	2.50	3.50	5.10	4.10	3.50	4.40	2.30	9.20
Total Magnesium	kg	21.60	6.10	660.50	1412.10	211.00	165.80	1092.90	3088.30	3831.40	2775.50	2082.00	134.50	1779.50	1951.60	2387.40	2256.10	2120.90	1602.30	2838.30	5149.90	2998.90	3811.40	5025.10	3484.30	8617.70
Total Manganese	kg	0.00040	0.00047	0.02056	0.00669	0.00538	0.00387	0.02608	0.05485	0.03574	0.01918	0.01917	0.00299	0.02515	0.02671	0.02422	0.02734	0.02960	0.03563	0.03358	0.07688	0.05952	0.04391	0.05779	0.05461	0.09537
Total Mercury	kg	0.0000002	0.0000001	0.0000038	0.0000063	0.0000005	0.0000003	0.0000007	0.0000072	0.0000085	0.0000057	0.0000050	0.0000003	0.0000045	0.0000037	0.0000054	0.0000048	0.0000037	0.0000034	0.0000074	0.000014	0.000012	0.000008	0.000011	0.000002	0.000016
Total Molybdenum	kg	0.00020	0.00006	0.00388	0.00204	0.00163	0.00138	0.00692	0.02268	0.02799	0.02175	0.01558	0.00055	0.01287	0.00986	0.00941	0.02009	0.04595	0.02297	0.02079	0.07357	0.04395	0.01781	0.02412	0.03015	0.06147
Total Nickel	kg	0.00049	0.00002	0.00575	0.00106	0.00072	0.00048	0.00234	0.00868	0.00912	0.00855	0.00511	0.00027	0.00706	0.00446	0.00192	0.00184	0.00632	0.00334	0.00250	0.00412	0.01731	0.01480	0.03058	0.00867	0.01551
Total Nitrate	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nitrite	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Potassium	kg	13.6	3.6	390.6	891.9	128.3	99.1	618.8	1827.1	2364.6	1739.9	1309.1	83.8	1131.9	1156.3	1456.5	1325.6	1250.4	938.9	1689	3126.7	1819.9	2162.6	3119.2	2075.8	5170.6
Total Selenium	kg	0.00048	0.00005	0.00348	0.00140	0.00106	0.00110	0.00557	0.02062	0.02888	0.01423	0.01558	0.00090	0.01391	0.01776	0.04534	0.05632	0.10383	0.08605	0.16250	0.34320	0.11721	0.08728	0.15470	0.15988	0.25049
Total Silica	kg	0.00940	0.00292	0.2392	0.5069	0.0703	0.0540	0.3166	1.1878	1.2009	1.1806	0.8238	0.0412	0.5619	0.9685	1.1000	1.2000	0.8248	0.6723	0.8395	3.4000	1.6000	1.6000	3.1000	1.9000	3.8000
Total Silicon	kg	0.00439	0.00136	0.00	0.00	0.00	0.00	0.00	0.55531	0.00	0.55195	0.38513	0.00	0.00	0.45277	0.50587	0.56201	0.38559	0.31429	0.00000	1.58215	0.74917	0.74890	1.50000	0.86646	1.80000
Total Silver	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Sodium	kg	119.80	37.00	3496.30	8110.70	1277.70	1025.60	6444.40	17169.10	24675.20	19221.40	13794.90	868.00	11774.00	13250.50	16076.30	15413.80	13844.60	10633.20	21986.50	33253.70	22251.40	24857.00	34063.10	21449.50	53199.70
Total Sulfate	kg	26.40	6.80	717.50	1858.70	279.60	246.80	1462.20	4643.20	6547.70	5095.30	3055.60	237.60	3331.50	3697.80	4293.90	4166.30	3637.90	2879.60	5236.80	10373.40	5860.50	7401.90	8937.50	6425.00	15282.00
Total Suspended Solids (TSS)	kg	0.70	0.20	2.20	6.40	3.20	0.40	22.50	21.80	24.90	31.70	16.00	0.70	11.90	9.40	16.80	28.80	17.20	1.00	1.60	2.60	1.40	9.90	6.80	2.20	8.00
Total Zinc	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Definitions: gal= gallon; kg = kilogram; ND = non detect																										

10.3 Visual Observations

Visual observations were conducted to document compliance with state narrative standards on influent and discharge flows during the Demonstration Plant's operation. Narrative standards apply to all waters of the state and include the presence or absence of unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor. Results of visual observations are discussed in the *Final Monitoring Report* (Appendix D). Visual observations showed that the discharge flow complied with state narrative standards.

10.4 Flow Data

The continuous flow data that were collected during the 28-week operation of the Demonstration Plant are detailed in the *Final Monitoring Report* (Appendix D). Data were reported for influent and discharge flows from the Demonstration Plant during its operation. Flow data were used to calculate the Demonstration Plant's water balance, and the resulting water balance provided evidence of no impact to (decrease of) the North Arm's volume or change (decrease) in the North Arm's WSE. The flow data also supported the assertion that the IX process is nonconsumptive. Flow data were used to calculate the flow-weighted average influent and discharge concentrations as shown above in Table 13 and weekly influent and discharge loads as shown above in Table 14 and Table 15, respectively.

10.5 Biota Data

The biota data that were collected and analyzed during operation of the Demonstration Plant are summarized in Section 5.1.2, *North Arm GSL* Biota, and detailed in the *Final Monitoring Report* (Appendix D). Biota (archaea, algae, bacteria, and fungi) were observed in samples of influent and discharge flows from the Demonstration Plant that were collected during three monitoring events. Testing and analysis revealed that North Arm biota (archaea, algae, bacteria, and fungi) were present in the influent and discharge flows; populations varied based on seasonality (the algae population increased during the warmer summer months). The species' presence and abundance were documented, and inoculation of biota into the discharge flow resulted in normal biota growth patterns. These biota data provide scientific evidence that the Demonstration Plant did not impact North Arm biota (archaea, algae, bacteria, and fungi).

10.6 Habitat Data

Habitat data collected in the area of the Demonstration Plant included the on-site observations for the presence of microbialites; see Section 5.1.1, *North Arm GSL Habitat*. The Microbialite Survey that was conducted revealed no microbialite structures within the project FFSL easement, which contained the intake and outfall infrastructure (Waterleaf Resources 2024). This survey provides evidence that the Demonstration Plant did not harm or impact North Arm habitat.

11 UPDES Permit No. UT0026280 Modification Application and ADR

Include UPDES permit application (R317-16-5(5)).

Waterleaf Resources has prepared an application to modify UPDES Permit No. UT0026280 (Appendix B), including a Level II ADR evaluation (Appendix C). The application modifies the existing Demonstration Plant UPDES permit to allow discharging higher flow and to specify the new latitude and longitude of the outfall.

Since the submittal of the UPDES application, UDWQ has evaluated the application as complete (UDWQ 2025c) and will use the submitted UPDES application as the basis for a new UPDES permit.

12 Additional Information Requested

Any other information related to the operation's impact to the biota or chemistry of the GSL, as requested by the director (R317-16-5(6)).

The UDWQ Director requested that additional information and activities be provided and conducted during the operation of the Demonstration Plant as described in UPDES Permit #UT0026280, Condition 1.C.2.d, and summarized below.

In accordance with UPDES Permit Condition 1.C.2.d (1), Waterleaf Resources met with UDWQ on March 18, 2025, to review the laboratory quality performance for the GSL North Arm brine. This meeting was held to present and review the laboratory quality performance for the first 4 weeks of Demonstration Plant compliance sampling.

In accordance with UPDES Permit Condition 1.C.2.d (1)(a), Waterleaf Resources prepared data quality objectives (DQO) for the Demonstration Plant; these DQOs provide evidence that GSL chemistry and biota will be protected. The draft DQO memo was presented to UDWQ staff during the March 18, 2025, meeting and was discussed. The final draft DQO memo was submitted to UDWQ on May 16, 2025, before the Demonstration Plant's compliance monitoring was completed (Waterleaf Resources 2025).

In accordance with UPDES Permit Condition 1.C.2.d (2), Waterleaf Resources has provided the analytical laboratory Level IV data quality package for each compliance sample analysis. The Level IV data quality packages are uploaded to EPA's electronic reporting system monthly along with the analytical results.

In accordance with UPDES Permit Condition 1.C.2.d (3), Waterleaf Resources has coordinated with UDWQ regarding collecting and delivering split compliance samples for the monitoring events on February 25 and March 5, 2025. Waterleaf Resources collected and delivered split samples using proper chain of custody procedures as described in 40 *Code of Federal Regulations* Part 136.

13 Statement of No Negative Impact

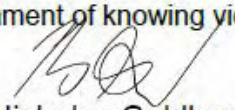
A statement that the proposed project will not negatively impact the biota or chemistry of the GSL.

Using the operation and compliance data collected for the Demonstration Plant and quantitative analyses, Waterleaf Resources developed Commercial Plant average influent and discharge concentrations and mass loads. These Commercial Plant concentrations and loads provided the basis to assess short- and long-term impacts to GSL volume, chemistry, biota, and habitat. Waterleaf Resources asserts, based on these data and analyses presented in this application, that the proposed Commercial Plant's operation will not negatively impact the biota or chemistry of the GSL.

14 Certification Statement and Signature

At the end of the submitted report, please include the below Certification Statement, signature of the signatory, and date signed:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.



Name: Nicholas Goldberg (for Waterleaf Date: 04/02/2026

Title: Authorized Person

15 References

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2025 Waterleaf Demonstration Plant Biota Study.

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[FFSL] Utah Division of Forestry, Fire and State Lands

2013 Great Salt Lake Comprehensive Management Plan. March.

Gwynn, J. Wallace, ed.

1980 Great Salt Lake: A Scientific, Historical, and Economic Overview. Bulletin 116. Salt Lake City, Utah: Utah Geological and Mineral Survey.

[UDWQ] Utah Division of Water Quality

2025a Completeness Review Comments. December 24.

2025b Utah Discharge Permit Elimination System Permit Number UT0026280. February 4.

2025c UPDES UT0026352 Permit Application. November 11.

2026 Facility Operation Certification Application Review Comments. March 25.

[UGS] Utah Geological Survey

2021 Great Salt Lake Microbialites and Ecosystem. July 15.

[USGS] U.S. Geological Survey

2006 Bathymetric Map of the North Part of Great Salt Lake, Utah. OFR 2006-1359.

2025 Great Salt Lake Hydro Mapper. https://webapps.usgs.gov/gsl/data.html.

Waterleaf Resources

2024 Microbialite Survey, Demonstration Plant. July 17.

2025 Demonstration Plant Monitoring – Data Quality Objectives. May 16.

APPENDIX A

UDWQ Rule 317-16, Great Salt Lake Mineral Extraction Facility Operator Certification Approval

R317. Environmental Quality, Water Quality.
R317-16. Great Salt Lake Mineral Extraction Facility Operator Certification Approval.
R317-16-1. Purpose and Authority.

(1) Authority. This rule is promulgated pursuant to Section 65A-6-4.

(2) Purpose. To implement administrative rules for approval of operator certification according to Section 65A-6-4 and to protect the biota and chemistry of Great Salt Lake from possible negative impacts in connection with brine processing and mineral extraction activities.

R317-16-2. Definitions.

The following definitions apply for purposes of this rule only:

(1) "Application for Operator Certification Approval" or "Application" means a request for approval of an operator's certification that its operations will not negatively impact biota or chemistry of Great Salt Lake, and includes the specific information detailed in Sections R317-16-3 and R317-16-5.

(2) "Biota" means all plants, fungi, animals, protists, bacteria, and archaea in Great Salt Lake.

(3) "Brine Depletion" means the volume of brine water consumed through processing and operations, calculated by subtracting the volume of returned water from the volume of brine water.

(4) "Brine Water" means water diverted from Great Salt Lake.

(5) "Certification Decision" includes the following:

(a) "Operator Certification Approval" means a permit order, as defined in Subsection 19-1-301.5(1)(f)(i), indicating the director's approval of an operator's certification.

(b) "Operator Certification Denial" means a permit order, as defined in Subsection 19-1-301.5(1)(f)(i), indicating the director's denial of an operator's certification.

(6) "Chemistry" means the properties, composition, and structure of the elements and compounds, and interactions thereof, making up the waters, brines, and substrate of Great Salt Lake.

(7) "Director" means the director of the Utah Division of Water Quality.

(8) "Discharge" means any water, substance, or pollution placed into a receiving water; which may include any combination of treated, processed, or returned waters.

(9) "Division" means the Utah Division of Water Quality.

(10) "Draft Certification Decision" means a document indicating the director's preliminary decision to approve or deny an operator's certification. A draft certification decision is not a permit order.

(11) "Externally Sourced Water" means water diverted from sources other than Great Salt Lake and used for processing and operations.

(12) "Feasibility Assessment" means the same as that term defined in Title R652.

(13) "FFSL" means the Utah Department of Natural Resources, Division of Forestry, Fire, and State Lands.

(14) "Foreign materials" means materials added to a discharge or a commercial process.

(15) "GSL" means Great Salt Lake.

(16) "Negative Impact" includes any activity or action that:

(a) causes pollution, or negatively alters the salinity or other aspects of water chemistry in Great Salt Lake;

(b) negatively alters the volume or timing of water flows to Great Salt Lake, or water levels in Great Salt Lake or Great Salt Lake wetlands;

(c) reduces, degrades, or otherwise negatively alters habitat in and around Great Salt Lake; or

(d) results in harmful physiological impacts to Great Salt Lake biota, including disruptions to survival, reproduction, or growth.

(17) "Operator" means a person submitting an application for operator certification approval to pursue extraction of Great Salt Lake elements or minerals to the Division of Water Quality.

(18) "Operator Certification" means a statement by an operator that its operation will not negatively impact the biota or chemistry of Great Salt Lake.

(19) "Pollution" means the same as that term is used in Section 19-5-102.

(20) "Returned Water" means any water discharged into Great Salt Lake from commercial operations.

(21) "Total Water" means the sum of externally sourced water and brine water.

(22) "UPDES" means Utah Pollutant Discharge Elimination System.

(23) "Water Depletion" means the volume of total water consumed through processing and operations, calculated by subtracting the volume of returned water from the volume of total water.

R317-16-3. Feasibility Assessment -- Certification Approval by Rule.

(1) The operator shall request a pre-filing meeting with the division and with FFSL at least 30 days before submitting a feasibility application with FFSL. The division and FFSL may jointly waive or shorten the requirement for a pre-filing meeting request.

(2) For the feasibility assessment only, a UPDES permit is considered a feasibility assessment certification approval by rule.

(a) The term of a UPDES permit issued for the feasibility assessment shall be the duration of the feasibility assessment.

(b) If the operation is non-discharging during the feasibility assessment and does not require a UPDES permit, the operator shall nonetheless comply with Subsection R317-16-3(3).

(i) The director will issue a certification decision using the procedures listed in Sections R317-16-6 and R317-16-7.

(ii) The term of a feasibility assessment certification approval shall be the duration of the feasibility assessment.

(3) To obtain feasibility assessment certification approval by rule, the operator shall submit, on a form provided by the division:

(a) information listed in this section pertaining to the feasibility assessment; and

(b) an application for a UPDES permit.

(4) Feasibility assessment information required:

(a) project information:

(i) mass balance of principal GSL salinity constituents, including all target and non-target minerals across the principal mineral processing steps;

(ii) a water balance at design flow, low flow conditions, and across a range of lake levels;

(iii) generated waste containment and disposal infrastructure descriptions, including residuals and disposal methods;

(iv) location and acreage of lakebed used for project facilities during the feasibility assessment and operations phases, if different;

(v) supporting documentation submitted to federal agencies, including maps, plans, specifications, project dimensions, copies of associated federal applications, biological and engineering studies, environmental assessment or environmental impact statements, or alternative analyses, as applicable;

(vi) estimated water depletion and brine depletion; and

(vii) plan to determine rate of extraction for the targeted and non-targeted minerals or elements and estimated rate of depletion of the targeted and non-targeted minerals or elements in GSL;

(b) withdrawal information:

(i) names and locations of the brine water and externally sourced water where withdrawals will occur, including the precise latitude and longitude to the fifth decimal place in decimal degrees and to the tenth of a degree in degrees-minutes-seconds notation;

(ii) detailed information on the quantity of brine water and externally sourced water withdrawn;

(iii) detailed information on the timing of the withdrawals; and

(iv) detailed description of the operator's plan for measuring the amount of brine water, externally sourced water, and returned water.

(c) discharge information:

(i) characterization of the physical, chemical, biological, thermal, and other pertinent properties of the discharge; at a minimum: pH, total alkalinity, total dissolved solids, total suspended solids, sulfate, nitrate, nitrite, carbonate, bicarbonate, chloride, hydroxide, chemical oxygen demand, biological oxygen demand, silica, zinc, magnesium, sodium, calcium, potassium, boron, bromine, aluminum, iron, and silicon; range of temperatures expected in effluent; density range of effluent to be discharged; and quantity of foreign materials that would be discharged to the GSL on an annual basis;

(ii) for operations that are non-discharging during the feasibility assessment, a determination of whether discharge will occur during the operations phase and an evaluation of how the operator will obtain information to characterize its operations discharge during the feasibility assessment.

(d) impacted habitat:

(i) description of existing GSL habitat and biota in and around the area of operation;

(ii) description of the potential physical impact to habitat and biota in and around the withdrawal and discharge locations;

(iii) evaluation of the least degrading reasonable alternatives;

(iv) plan to mitigate any negative impacts of the proposed operation; and

(v) plan to ensure existing beneficial uses will be maintained and protected.

(e) monitoring and inspection plan:

(i) a description of the methods and means to monitor the quality and characteristics of the discharge and the operation of the equipment or facilities employed in control of any proposed discharge;

(ii) plan to monitor and address long-term cumulative effects of withdrawals and discharges associated with the operation on the biota and chemistry of the GSL including available baseline data; and

(iii) a map showing the locations of proposed monitoring points.

(f) evidence supporting the operator certification:

(i) consideration of both short-term effects and long-term impacts of the project;

(ii) examples of evidence supporting a certification may include:

(A) a quantitative comparison of influent and effluent volume and chemical composition;

(B) modeled annual impacts to salinity or concentrations of other chemical parameters in GSL;

(C) evaluation of impacts to GSL biota including:

(I) a quantitative comparison of effluent chemical concentrations to applicable water quality standards; or

(II) other scientifically defensible biological response thresholds;

(D) other scientifically defensible means for evaluating project impacts on GSL chemistry and biota.

R317-16-4. Operations Application Procedures.

(1) The operator shall request a pre-filing meeting with the division and with FFSL at least 30 days before submitting an application for operator certification approval. The division and FFSL may jointly waive or shorten the requirement for a pre-filing meeting request.

(2) The operator shall submit an application for operator certification approval simultaneously with the application to FFSL pursuant to Subsection 65A-6-4(6)(b)(iii).

(3) Applications for operator certification approval shall be submitted on the form provided by the division. Unless extended in writing by the division, the operator must obtain all information submitted with the application within one year of filing the application.

(4) The operator shall submit a UPDES application simultaneously with the application for operator certification approval. UPDES permit approval is not a certification decision. The director shall issue a certification decision separate from a UPDES permit.

(5) Within 45 days of receiving the application for operator certification approval, the division will notify the operator whether the application is complete. If an application is incomplete, the division shall notify the operator of the missing information.

(a) An operator may submit the missing information within 45 days after the division's notice of incompleteness.

(b) The division may administratively deny an incomplete application not remedied within 45 days, and the operator must resubmit a new application for operator certification approval.

(6) The operator shall notify the director in writing of changes that may affect the application for operator certification.

(7) If an operator who is required to obtain an operator certification approval fails to do so, the director may process an application for operator certification approval after-the-fact. An application after-the-fact shall be reviewed under the same standards as a timely application for operator certification approval. The director may require full restoration or other actions as a pre-condition of processing the application. An operator submitting an after-the-fact application shall have the burden of proving what the original baseline conditions were, and an application may be denied in the absence of such proof.

(8) The operator is responsible for payment of hourly fees, established pursuant to Subsection 19-1-201(6)(i). The operator shall submit a fee retainer, specified in the application form, together with its application for certification approval. The division will not begin review of the application for certification approval until it has received the fee retainer. The division will invoice the operator on a routine basis, and may stop review of the application for nonpayment.

R317-16-5. Operations Application Content.

Unless otherwise determined in writing by the director, the application for operator certification approval shall include the following:

(1) all information required under Subsection R317-16-3(4), revised and updated to reflect the scale of the operations design;

(2) a summary of any changes made as a result of the feasibility assessment;

(3) a summary of findings establishing the operator's feasibility assessment had no negative impact on the biota or chemistry of GSL;

(4) all data and data analysis related to GSL biota and chemistry derived from the feasibility assessment;

(5) a UPDES permit application;

(6) any other information related to the operation's impact to the biota or chemistry of GSL, as requested by the director; and

(7) a statement that the proposed project will not negatively impact the biota or chemistry of GSL.

R317-16-6. Draft Certification Decision.

(1) Within 60 days of receiving a complete application for operator certification approval, the director shall issue a draft certification decision.

(2) The draft certification decision shall be subject to a public notice and comment period of at least 30 days.

(3) The division will publish the public notice using the following methods:

(a) Utah Department of Environmental Quality website; and

(b) the Utah Public Notices website.

(4) The director may, at the director's discretion, hold a public hearing to take oral comments if:

(a) the director receives a request in writing not more than 15 days after the publication date of the draft certification decision; and

(b) the request is from:

(i) another state agency;

(ii) ten interested persons; or

(iii) an interested association having not fewer than ten members.

(5) Public notice of a public hearing shall be given at least seven days in advance of the hearing. Public notice of a hearing may be combined and provided at the same time as public notice of any of the following:

(a) a draft certification decision issued under this rule;

(b) a draft UPDES permit issued under Rule R317-8; or

(c) a draft water quality certification issued under Rule R317-15.

(6) The director shall consider the comments received during the public notice and comment period in finalizing the certification decision.

R317-16-7. Certification Decision.

(1) After review of the application for operator certification approval and consideration of comments received during the public notice period, the director shall issue one of the following certification decisions:

(a) operator certification approval; or

(b) operator certification denial.

(i) If the director issues an operator certification denial, the denial shall include reasons for denial.

(ii) If the director issues an operator certification denial, the director will notify FFSL of the denial.

(2) The certification decision shall include a summary of the comments received during the public notice and comment period and state whether any changes were made to the certification decision as a result of the comments.

R317-16-8. Term of Operator Certification Approval.

(1) An operator certification approval shall be effective for a term of ten years.

(2) An operator shall submit an application for operator certification approval to renew its operator certification approval no later than 180 days before the expiration of the certification approval.

(a) If an operator certification approval lapses before the director issues a certification decision on a timely renewal application, the operator certification approval will continue until the director issues a certification decision on the renewal application.

(b) Review of the operator's application to renew its operator certification approval will follow all procedures specified in this rule.

(c) Failure to submit an application for operator certification approval to renew shall, on the certification approval's expiration date, result in a lapse of the operator certification approval.

(d) The director will notify the operator and FFSL of the lapse. The director's notification is not a permit order.

R317-16-9. Reevaluation of Operator Certification Approval.

(1) If any of the following occur, the director may notify the operator that it must resubmit, within 60 days, an application for operator certification approval for reevaluation:

(a) the operator's failure to fully disclose all relevant facts in the application;

(b) the operator's misrepresentation of any relevant fact at any time;

(c) existence of evidence that the operation is negatively impacting the biota or chemistry of GSL;

(d) request for a major modification in the operator's UPDES permit as defined by Subsection R317-8-5(5.6);

(e) lapse of the operator's certification approval; or

(f) the emergency trigger as defined in Subsection 65A-17-101(5).

(2) The reevaluation will follow all procedures specified in this rule.

R317-16-10. Transfer of Operator Certification Approval For Non-Discharging Operations.

(1) For non-discharging operations, the operator shall give written notice to the director of any transfer of the operator certification approval at least 30 days in advance of the effective date of the transfer.

(2) The notice shall include a written agreement between the existing and new operator establishing a specific date for transfer of certification responsibility.

(3) The notice shall contain the following contact information:

(a) legal name, permanent address and telephone number;

(b) name and permanent address of the operator's registered agent in Utah;

(c) name, address, email address and telephone number of the primary contact for the application, including the person to whom requests for additional information should be addressed; and

(d) signature of the operator; a corporate application must be signed by an officer of the corporation.

R317-16-11. Effect of Operator Certification Approval on Other Required Permits.

(1) Operator certification approval does not exempt the operator from complying with or obtaining any other permits required by federal, state, or local law.

(2) An operator certification approval is required in addition to a UPDES permit for facilities subject to this rule; however, reporting required by the operator certification approval may also be required through the UPDES permit, at the director's discretion.

KEY: Water Quality
Date of Last Change: September 23, 2024
Authorizing, and Implemented or Interpreted Law: 65A-6-4

APPENDIX B

UPDES Permit #UT0026280 Modification Application

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part I. General Information (40 CFR 122.21(j)(1) and (9))

Permit Status: ☐ Renewal ■ New Permit modification

UPDES Permit No.: UT0026280 ☐ New Permit; UPDES Permit # Not Available

Facility Name: Waterleaf Great Salt Lake Phase 1 Lithium Extraction Project

Facility Location: Western Slope Promontory Mountains (Unincorp Box Elder Co.)

City _____ State Ut Zip _____

Facility Mailing Address: 9350 South 150 East, Suite # 710

City Sandy State Ut Zip 84070

Facility Contact: Steve Morrey **Title:** Project Manager

Phone Number: 801-694-2245 **Email Address:** steve.morrey@lilacsolutions

Name of Signatory: Nicholas Goldberg **Title:** Authorized Person, Waterleaf Phase 1

Is the applicant the facility owner, operator or both? (check only one response.)

■ Owner ☐ Operator ☐ Both

Indicate below any existing environmental permits. (Check all that apply and type the corresponding permit number for each.)

☐ RCRA (hazardous waste) ☐ UIC (underground injection control) ☐ PSD (air emissions)

☐ Nonattainment program (CAA) ■ NESHAPs (CAA) TBD ■ Dredge or fill (CWA Section 404) TBD

■ Other (specify) DWQ GSL Mineral Extraction Oper

Nature of Business CFR (40 CFR 122.21(f)(8))

Describe the nature of your business

Waterleaf Resources proposes to build and operate a Great Salt Lake (GSL) Phase 1 Lithium Extraction Project (Commercial Plant) which will extract lithium from Gunnison Bay (North Arm) brine water, GSL and discharge depleted brine to Gunnison Bay, GSL. This facility will utilize non-evaporative ion-exchange technology to produce battery-grade lithium products. This new facility will be constructed along the western slope of Promontory Mountains, Box Elder County, Utah and include with intake and discharge infrastructure located in Gunnison Bay. This application is to modify Waterleaf Resources existing UPDES permit no. UT0026280

UPDES Industrial Permit Application

Part II. Facility Information

Design and Actual Flow Rates

Provide design and actual flow rates in designated spaces.

Design Flow Rate	
20	mgd

Annual Average Flow Rates (Actual) Demonstration Plant actual flow					
Five Years Ago		**Four Years Ago**		**Three Years Ago**	
NA	mgd	NA	mgd	NA	mgd
Two Years Ago		**Last Year**		**Current Year**	
NA	mgd	NA	mgd	.006	mgd

Maximum Daily Flow Rates (Actual) From Demonstration plant					
Five Years Ago		**Four Years Ago**		**Three Years Ago**	
NA	mgd	NA	mgd	NA	mgd
Two Years Ago		**Last Year**		**Current Year**	
NA	mgd	NA	mgd	.006	mgd

Describe the treatment for each outfall*

	Outfall Number	002	**Outfall Number**	NA	**Outfall Number**	NA
Level of Treatment						
Primary	Treatment Unit	Raw Brine Filtr	Treatment Unit	NA	Treatment Unit	NA
	Size	NA	Size	NA	Size	NA
	Flow rate	20	Flow rate	NA	Flow rate	NA
	Retention time	NA	Retention time	NA	Retention time	NA
	Other	NA	Other	NA	Other	NA
Equivalent to secondary	Treatment Unit	Periodic pH ad	Treatment Unit	NA	Treatment Unit	NA
	Size	NA	Size	NA	Size	NA
	Flow rate	20	Flow rate	NA	Flow rate	NA
	Retention time	NA	Retention time	NA	Retention time	NA
	Other	NA	Other	NA	Other	NA

UPDES Industrial Permit Application

Part II. Facility Information *continued*

Describe the treatment for each outfall* *continued*

	Outfall #	002	**Outfall #**		**Outfall #**	
Secondary	Treatment Unit	Groundwater I	Treatment Unit	NA	Treatment Unit	NA
	Size	NA	Size	NA	Size	NA
	Flow rate	0.216	Flow rate	NA	Flow rate	NA
	Retention time	NA	Retention time	NA	Retention time	NA
	Other	NA	Other	NA	Other	NA
Advanced	Treatment Unit	Depleted Brine	Treatment Unit	NA	Treatment Unit	NA
	Size	NA	Size	NA	Size	NA
	Flow rate	20	Flow rate	NA	Flow rate	NA
	Retention time	NA	Retention time	NA	Retention time	NA
	Other	NA	Other	NA	Other	NA
Other (specify)	Treatment Unit	Solids Manage	Treatment Unit	NA	Treatment Unit	NA
	Size	NA	Size	NA	Size	NA
	Flow rate	NA	Flow rate	NA	Flow rate	NA
	Retention time	NA	Retention time	NA	Retention time	NA
	Other	NA	Other	NA	Other	NA

* The data can be entered in the section above or an excel spreadsheet. Attached additional sheets if needed.

Production

Outfall Number	**Operation, Product, or Material**	**Quantity per day**	**Unit of Measure**
002	Lithium Carbonate Equiv	1.7 LCE	Metric Tons

UPDES Industrial Permit Application

Part II. Facility Information *continued*

BLUEPRINT: Attach a line drawing that shows the water flow through your facility with a water balance.

■ Blueprint Attached

MAP: Attach a USGS topographic map or aerial photo extending one mile beyond the property boundaries of the site, the facility or activity boundaries, any treatment area(s), outfall(s), major drainage patterns, and the receiving surface waters stated above.

■ Map Attached

Are improvements to the facility scheduled?

■ YES If YES, explain below.

☐ NO If NO, Skip to Part III

Briefly list and describe the schedule improvements.

1.	See Level II ADR
2.	
3.	
4.	

Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

	Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
1.	Phase 1	002	06/2026	06/2027	06/2027	06/2027
2.						
3.						
4.						

UPDES Industrial Permit Application

Part III. Sampling Information See Final Monitoring Report, *Great Salt Lake Lithium extraction demo plant project*

Provide all parameter sampling data with analytical results, reporting limit and any laboratory flags on an Excel spreadsheet. *An Excel Spreadsheet will be provided upon request.*

Has WET testing been conducted during the last 5 years? ☐ YES ■ NO

Indicate the acute and chronic WET tests (PASS or FAIL) results for the past 5 years. If no WET testing for the quarter, then leave blank (e.g., for semi-annual or annual testing or missed testing events).

Year	Outfall No. _____				Outfall No. _____				Outfall No. _____			
	Acute		Chronic		Acute		Chronic		Acute		Chronic	
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL

Describe any cause(s) of toxicity:

Were the above WET analysis submitted to Utah DWQ? ☐ YES ☐ NO

UPDES Industrial Permit Application

Part IV. Compliance Information See Final Monitoring Report, *Great Salt Lake Lithium Extraction Demo Plant Project*

Has the facility had and parameter exceedances over the past five years? ☐ YES ■ NO

If Yes, provide the below information:

Parameter	Exceedance	Month/Year	Cause

UPDES Industrial Permit Application

Facility monitoring data. See attached information and Final Monitoring Report, *Great Salt Lake Lithium extraction demo plant project*

Please provide the past **five years** of all parameters required to be monitored in the UPDES permit. The data can be entered in the section below or an excel spreadsheet. Attached additional sheets if needed.

Month	Year	Parameter	Min	Max	Avg	MDL/RL*

*MDL/RL is the analysis method detection limit or reporting limit located on the laboratory analysis report.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part V. Outfalls and Receiving Water(s)

Provide the latitude and longitude to the nearest second for each dewatering outfall. The specified location should be after all treatment and before release to the receiving water. Provide the name of the initial receiving water. If the initial receiving water is unnamed, please also indicate the closed named drainage the receiving water flows into (i.e. unnamed tributary of City Creek). Attach additional sheets if necessary for more outfalls.

Each outfall to a different receiving water segment is subject to additional application fees and annual fees.

Outfall No.	Average daily flow rate	Latitude	Longitude	Receiving Surface Waters (Name)
002	20 mgd	41 O 26 ‘ 41.47 “	-112 O 42 ‘ 25.25 “	Gunnison Bay, GSL
	mgd	O ‘ “	O ‘ “	
	mgd	O ‘ “	O ‘ “	

Do any of the outfalls described above have a season or periodic discharges?

☐ YES ■ NO

If so, provide the following information for each applicable outfall.

	Outfall No. NA	Outfall No. NA	Outfall No. NA
Number of times per year discharges occurs	NA	NA	NA
Average duration of each discharge (specify units)	NA	NA	NA
Average flow of each discharge	NA mgd	NA mgd	NA mgd
Months in which discharge occurs	NA	NA	NA

UPDES Industrial Permit Application

Part VI. Effluent and Intake Characteristics

Table A.
Conventional and Non-Conventional Pollutants

Are you requesting a waiver for one or more pollutants listed Table A for any of your outfalls?

☐ YES ■ NO

If yes, indicate the applicable outfalls below. Attach the waiver request and other required information to the application.

Outfall Number	002	Outfall Number		Outfall Number	

Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application?

☐ YES ■ NO; a waiver has been requested for all pollutants at all outfalls

Table B.
Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Appendix A?

■ YES ☐ NO ☐ Not applicable

Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ YES ■ NO

List the applicable primary industry categories and check the boxes indicating the required Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s) identified in Appendix A.

Primary Industry Category	Required Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s)
15- Inorganic Chemical Extraction	■ Volatile ■ Acid ■ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide

Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions?

■ YES ☐ NO

Have you checked "Believe Present" or Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

■ YES ☐ NO

Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believe Present" in your discharge?

■ YES ☐ NO

Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

■ YES ☐ NO

UPDES Industrial Permit Application

Part VI. Effluent and Intake Characteristics *continued*

Table C.
Certain Conventional and Non-Conventional Pollutants

Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls?

■ YES ☐ NO

Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an Effluent Limitation Guidelines and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believe Present"?

■ YES ☐ NO

Table D.
Certain Hazardous Substances and Asbestos

Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table D for all outfalls?

■ YES ☐ NO

Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available?

■ YES ☐ NO

Table E.
2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed below:

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T)
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP)
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloro-propionate (Erbon)
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel)
- ☐ 2,4,5,-trichlorophenol (TCP)
- ☐ hexachlorophene (HCP).
- ☐ Or do you know of have reason to believe that TCDD is or may be present in the effluent?

☐ YES, Complete Table E ■ NO, Skip to Part VII

Have you completed Table E by reporting qualitative data for TCDD?

☐ YES ■ NO

Were any of the analyses reported in this section performed by a contract laboratory or consulting firm?

■ YES ☐ NO, Skip to Part VII

Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Chemtech Ford	NA	NA
Laboratory address	9632 South 500 West S		
Phone Number	801-262-7299		
Pollutant(s) analyzed	See Demonstration Plant Final Monitoring Report, Waterleaf		

UPDES Industrial Permit Application

Part VII. Used or Manufactured Toxics

Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☐ YES ■ NO, Skip to Part VIII

List the pollutants below.

1. NA	4.	7.
2.	5.	8.
3.	6.	9.

UPDES Industrial Permit Application

Part IX. Biosolids Information

Not Applicable to this application. No Biosolids produced

Was the Biosolids Annual Report submitted? ☐ YES ☐ NO

☐ Attach a Biosolids Management Plan with application

Serve Connections? ____

Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used and disposed of:

Practice	Dry Metric Tons per 365-day Period
Amount generated at the facility	
Amount treated at the facility	
Amount used (i.e., received from offsite) at the facility	
Amount disposed of at the facility	

Treatment Provided at Your Facility

Identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Stabilization
- ☐ Composting
- ☐ Disinfection
- ☐ Heat drying
- ☐ Methane or biogas capture and recovery
- ☐ Thickening (concentration)
- ☐ Anaerobic digestion
- ☐ Conditioning
- ☐ Dewatering (e.g. centrifugation, sludge drying beds, sludge lagoons)
- ☐ Thermal reduction

Sewage Sludge Disposal Method

Land Application of Bulk Sewage Sludge

Is sewage sludge form your facility applied to the land? ☐ YES ☐ NO If No, Skip to next section

Total dry metric tons per 365-day period of sewage sludge applied to all land sites:

Surface Disposal

Is sewage sludge from your facility placed on a surface disposal site?

☐ YES ■ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period: _____

Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?

☐ YES ☐ NO If No, complete the below information

Surface disposal site *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip _____

Contact Name _____ Title _____

Phone Number _____ Email Address _____

UPDES Industrial Permit Application

Part IX. Bisolids Information *continued* Not Applicable to this application. No Biosolids produced

Incineration

Is sewage sludge from your facility fired in a sewage sludge incinerator?
☐ YES ☐ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period: _____

Do you own or operate all sewage sludge incinerators in which sewage sludge from facility is fired?
☐ YES ☐ NO If No, complete the below information

Incinerator location *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip

Contact Name _____ Title _____

Phone Number _____ Email Address _____

Disposal in a Municipal Solid Waste Landfill

Is sewage sludge from your facility placed on a municipal solid waste landfill?
☐ YES ☐ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period: _____

Do you own or operate the municipal solid waste landfill in which sewage sludge is disposed?
☐ YES ☐ NO If No, complete the below information

Municipal Solid Waste Landfill *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip _____

Contact Name _____ Title _____

Phone Number _____ Email Address _____

UPDES Industrial Permit Application

Part X. Reuse Information

Not Applicable to this application. No water reuse is proposed

Is wastewater applied to land?

☐ YES ☐ NO If YES, complete the below information.

Land Application Site and Discharge Data

Location	Size	Average Daily Volume Applied	How often
	NA acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent
	acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent
	acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent

Seasonal land application.

Indicate months of seasonal land application

☐ January	☐ April	☐ July	☐ October
☐ February	☐ May	☐ August	☐ November
☐ March	☐ June	☐ September	☐ December

Where is the Reuse water distributed

- ☐ Residential irrigation
- ☐ Urban uses
  - ○ Non-residential landscape irrigation
  - ○ Golf course irrigation
  - ○ Toilet flushing
  - ○ Fire protection
- ☐ Irrigation of food crops (direct contact with edible part) – spray irrigation
- ☐ Irrigation of food crops *(Non direct contact with edible part) – no spray irrigation*
- ☐ Irrigation
  - ○ Sod farms
  - ○ Silviculture
  - ○ Limited access highway rights of way
  - ○ Other areas where human access is restrict or unlikely to occur
- ☐ Irrigation of animal feed crops other than pasture for milking animals
- ☐ Impoundment of wastewater where direct human contact is not allowed or is unlikely to occur
- ☐ Cooling water
- ☐ Soil compaction or duct control in construction areas
- ☐ Other

☐ **Attached an updated Reuse Project Plan**

An updated Reuse Project Plan is required during every permit renewal.

UPDES Industrial Permit Application

Part X. Antidegradation Review

The objective of antidegradation rules and policies is to protect existing high quality waters and set forth a process for determining where and how much degradation is allowable for socially and/or economically important reasons. In accordance with Utah Administrative Code (UAC R317-2-3), an antidegradation review (ADR) is a permit requirement for any project that will increase the level of pollutants in waters of the state. The rule outlines requirements for both Level I and Level II ADRs, as well as public comment procedures. This review form is intended to assist the applicant and Division of Water Quality (DWQ) staff in complying with the rule but is not a substitute for the complete rule in R317-2-3.5. Additional details can be found in the *Utah Antidegradation Implementation Guidance* and relevant sections of the guidance are cited in this review form.

ADRs should be among the first steps of an application for a UPDES permit because the review helps establish treatment expectations. The level of effort and amount of information required for the ADR depends on the nature of the project and the characteristics of the receiving water. To avoid unnecessary delays in permit issuance, DWQ recommends that the process be initiated at least one year prior to the date a final approved permit is required.

DWQ will determine if the project will impair beneficial uses (Level I ADR) using information provided by the applicant and whether a Level II ADR is required. The applicant is responsible for conducting the Level II ADR. For the permit to be approved, the Level II ADR must document that all feasible measures have been undertaken to minimize pollution for socially, environmentally or economically beneficial projects resulting in an increase in pollution to waters of the state.

For permit requiring a Level II ADR, this antidegradation form must be completed and approved by DWQ before any UPDEs permit can be issued. Typically, the ADR form is completed in an iterative manner in consultation with DWQ. The applicant should first complete the statement of social, environmental and economic importance (SEEI) in Section C and determine the parameters of concern (POC) in Section D. Once the POCs' are agreed upon by DWQ, the alternatives analysis and selection of preferred alternative Section E can be conducted based on minimizing degradation resulting from discharge of the POCs. Once the applicant and DWQ agree upon the preferred alternative, the review is considered complete, and the form is submitted to DWQ.

What are the designated uses of the receiving water (R317-2-6)?

- ☐ Domestic Water Supply
- ☐ Recreation
- ☐ Aquatic Life
- ☐ Agricultural Water Supply
- ■ Great Salt Lake

Antidegradation Category 1, 2 or 3 of receiving water (R317-2-3.2, -3.3, and -3.4): ADR Category 3

Designated uses 5B,5E

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Effluent flow reviewed: *typically, this should be the maximum daily discharge at the design capacity of the facility. Exceptions should be noted.*

20 MGD maximum flow.

What is the application for? (Check all that apply)

- ☐ A UPDES permit for a new facility, project, or outfall.
- ■ A UPDES permit renewal with an expansion of modification of an existing wastewater treatment works.
- ☐ A UPDES permit renewal requiring limits for a pollutant not covered by the previous permit and/or an increase to existing permit limits.
- ☐ A UPDES permit renewal with no charges in facility operations.

Section B. Is a Level II ADR required?

This section of the form is intended to help applicants determine if a Level II ADR is required for specific permitted activities. In addition, the Executive Secretary may require a Level II ADR for an activity with the potential for major impact on the quality of waters of the state (R317-2-3.5a.1).

B1. The UPDES permit is new or is being renewed and the proposed effluent concentration and loading limits are higher than the concentration and loading limits in the previous permit and any previous antidegradation review(s).

- ■ YES – (Proceed to B3 of the Form)
- ☐ NO – No Level II ADR is required and there is no need to proceed further with the review questions. Continue to the Certification Statement and Signature page.

B2. Will any pollutants use assimilative capacity of the receiving water, i.e. do the pollutant concentrations in the effluent exceed those in the receiving waters at critical conditions? For most pollutants, effluent concentrations that are higher than the ambient concentrations require an antidegradation review? For a few pollutants such as dissolved oxygen, and antidegradation review is required if the effluent concentrations are less than the ambient concentrations in the receiving water. (Section 3.3.3 of Implementation Guidance)

- ☐ YES – (Proceed to B4 of the Form)
- ■ NO – No Level II ADR is required and there is no need to proceed further with the review questions. Continue to the Certification Statement and Signature page.

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

B3. Are water quality impacts of the proposed project temporary and limited (Section 3.3.4 of Implementation Guidance)? Proposed projects that will have temporary and limited effects on water quality can be exempted form a Lev le II ADR.

☐ YES – Identify the reason used to justify this determination if B4.1 and proceed to Section G. No Level II ADR is required.

■ NO – A Level II ADR is required (Proceed to Section C)

B3.1 Complete this question only if the applicant is requesting a Level II review exclusion for temporary and limited projects (See R317-2-3.5(b)(3) and R317-2-3.5(b)(4)). For projects requesting a temporary and limited exclusion please indicate the factor(s) used to justify this determination (check all that apply and provide details as appropriate) (Section 3.3.4 of Implementation Guidance):

☐ Water quality impacts will be temporary and related exclusively to sediment or turbidity and fish spawning will not be impaired.

Factors to be considered in determining whether water quality impacts will be temporary and limited:

a) The length of time during which water quality will be lowered:	
b) The perfect change in ambient concentrations of pollutants:	
c) Pollutants affected:	
d) Likelihood for long-term water quality benefits:	
e) Potential for any residual long-term influences on existing uses:	
f) Impairment of fish spawning, survival and development of aquatic fauna excluding fish removal efforts:	
Additional justification, as needed:	

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Level II ADR

Section C, D, E, and F of the form constitute the Level II ADR Review. The applicant must provide as much detail as necessary for DWQ to perform the antidegradation review. Questions are provided for the convenience of applicants; however, for more complex permits it may be more effective to provide the required information in a separate report. Applicants that prefer a separate report should record the report name here and proceed to Section G of the form.

Option Report Name: See Waterleaf Resources Level II ADR

Section C. Is the degradation from the project socially and economically necessary to accommodate important social or economic development in the area in which the waters are located? *The applicant must provide as much detail as necessary for DWQ to concur that the project is socially and economically necessary when answering the questions in the section. More information is available in Section 6.2 of the Implementation Guidance.*

C1. Describe the social and economic benefits that would be realized through the proposed project, including the number and nature of jobs created and anticipated tax revenues.

See Waterleaf Resources Level II ADR

C2. Describe any environmental benefits to be realized through implementation of the proposed project.

See Waterleaf Resources Level II ADR

C3. Describe any social and economic losses that may result from the project, including impacts to recreation or commercial development.

See Waterleaf Resources Level II ADR

C4. Summarize any supporting information from the affected communities on preserving assimilative capacity to support future growth and development.

See Waterleaf Resources Level II ADR

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

C5. Please describe any structures or equipment associated with the project that will be placed within or adjacent to the receiving water.

See Waterleaf Resources Level II ADR

C6. Will the discharge potentially impact a drinking water source, e.g., Class 1C waters? Depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream water quality standards, may be required by the Director in order to adequately protect public health and the environment (R317-2-3.5 d.).

☐ YES
■ NO

Section D. Identify and rank (from increasing to decreasing potential threat to designated uses) the parameters of concern. *Parameters of concern are parameters in the effluent at concentrations greater than ambient concentrations in the receiving water. The applicant is responsible for identifying parameter concentrations in the effluent and DWQ will provide parameter concentrations for the receiving water. More information is available in Section 3.3.3 of the Implementation Guidance.*

Parameters of Concern:

Rank	Pollutant	Ambient Concentration	Effluent Concentration
1. See Level II ADR			
2.			
3.			
4.			
5.			

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Pollutants Evaluated that are not Considered Parameters of Concern:

Pollutant	Ambient Concentration	Effluent Concentration	Justification
1.			
2.			
3.			
4.			
5.			

Section E. Alternative Analysis Requirements of Level II Antidegradation Review. *Level II ADRs require the applicant to determine whether there are feasible less-degrading alternatives to the proposed project. More information is available in Section 5.5 and 5.6 of the Implementation Guidance.*

E1. The UPDES permit is being renewed without any changes to flow or concentrations. Alternative treatment and discharge options including changes to operations and maintenance were considered and compared to the current processes. NO economically feasible treatment or discharge alternatives were identified that were not previously considered for any previous antigradation review(s).

☐ YES – (Proceed to Section F)
■ NO or Does Not Apply (Proceed to E2)

E2. Attach as an appendix to this form a report that describes that following factors for all alternative treatment options (see 1) a technical descriptions of the treatment process, including construction costs and continued operation and maintenance expenses, 2) the mass and concentration of discharge constituents, and 3) a description of the reliability of the system, including the frequency where recurring operation and maintenance may lead to temporary increases in discharged pollutants. Most of this information is typically available from a Facility Plan, if available.

Report Name: See Waterleaf Resources Level II ADR

E3. Describe the proposed method and cost of the baseline treatment alternative. The baseline treatment alternative is the minimum treatment required to meet water quality based effluent limits (WQBEL) as determined by the preliminary or final wasteload analysis (WLC) and any secondary or categorical effluent limits.

Not applicable

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

E4. Were any of the following alternatives feasible and affordable?

Alternative	Feasible	Reason Not Feasible/Affordable
Pollutant Trading	☐ YES ☐ NO	See Level II ADR
Water Recycling/Reuse	☐ YES ☐ NO	
Land Application	☐ YES ☐ NO	
Connection to Other Facilities	☐ YES ☐ NO	
Upgrade to Existing Facility	☐ YES ☐ NO	
Total Containment	☐ YES ☐ NO	
Improved O&M of Existing Systems	☐ YES ☐ NO	
Seasonal or Controlled Discharge	☐ YES ☐ NO	
New Construction	☐ YES ☐ NO	
No Discharge	☐ YES ☐ NO	

E5. From the applicant's perspective, what is the preferred treatment option?

See Level II ADR

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

E6. Is the preferred option also the least polluting feasible alternative?

■ YES ☐ NO

If No, what were less degrading feasible alternative(s)?

If No, provide a summary of the justification for not selecting the least polluting feasible alternative and if appropriate, provide a more detailed justification as an attachment.

Section F. Optional Information

F1. Does the applicant want to conduct optional public review(s) in addition to the mandatory public review? Level II ADRs are public noticed for a thirty day comment period. More information is available in Section 3.7.1 of the Implementation Guidance.

☐ YES ■ NO

F2. Does the project include an optional mitigation plan to compensate for the proposed water quality degradation?

☐ YES ■ NO

Report Name:

Level II Antidegradation Review
Waterleaf Resources, Great Salt Lake Commercial Plant Project
UPDES Industrial Permit Application
Box Elder County, Utah

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part XI. Certification Statement and Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that quailed personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Nicholas Goldberg		Authorized Person, Wat	10/31/2025
PRINT Signatory Authority	**Signature**	**Title**	**Date**

The Division of Water Quality may request addition information.

Important: The UPDES Permit Application will not be considered complete unless you answer every question. If an item does not apply to you, enter "Not Applicable" to show that you considered the question.

The UPDES Permit Application, must be signed as follows:

1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
   a. A President, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
   b. The manager of one or more manufacturing, production, or operating facilities, if
      i. The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations:
      ii. The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
      iii. Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
2) For a partnership of sole proprietorship, the general partner or the proprietor, respectively; or
3) For a municipality, state or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of any agency means;
   a. The chief executive officer of the agency; or
   b. A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Where to File the UPDES Permit Application form:

Please submit the original form with a signature in ink to the below address. Remember to retrain a copy for your records.

UPDES sent by mail:

Division of Water Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870

OFFICE USE ONLY

Date received: / / **Received by:** _____ **Document No:** _____

via: ☐ Email ☐ Fax ☐ Webportal ☐ Mail ☐ Hand Delivery

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Appendix A. Testing Requirements for Organic Toxic Pollutants
Industry Categories*

	Industry Category	Volatile	Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s)†		Pesticide
			Acid	Base/Neutral	
1.	Adhesives and sealants	X	X	X	☐
2.	Aluminum forming	X	X	X	☐
3.	Auto and other laundries	X	X	X	X
4.	Battery manufacturing	X	☐	X	☐
5.	Coal mining	☐	☐	☐	☐
6.	Coil coating	X	X	X	☐
7.	Copper forming	X	X	X	☐
8.	Electric and electronic compounds	X	X	X	X
9.	Electroplating	X	X	X	☐
10.	Explosives manufacturing	☐	X	X	☐
11.	Foundries	X	X	X	☐
12.	Gum and wood chemicals (all subparts except D and F)	X	X	☐	☐
13.	Gum and wood chemicals, Subpart D (tall oil rosin)	X	X	X	☐
14.	Gum and wood chemicals, Subpart F (rosin-based derivatives)	X	X	X	☐
15.	Inorganic chemicals manufacturing	X	X	X	☐
16.	Iron and steel manufacturing	X	X	X	☐
17.	Leather tanning and finishing	X	X	X	☐
18.	Mechanical products manufacturing	X	X	X	☐
19.	Nonferrous metals manufacturing	X	X	X	X
20.	Ore mining, Subpart B (base and precious metals)	☐	X	☐	☐
21.	Organic chemicals manufacturing	X	X	X	X
22.	Paint and ink formulation	X	X	X	☐
23.	Pesticides	X	X	X	X
24.	Petroleum refining	X	☐	☐	☐
25.	Pharmaceutical preparations	X	X	X	☐
26.	Photographic equipment and supplies	X	X	X	☐
27.	Plastic and synthetic materials manufacturing	X	X	X	X
28.	Plastic processing	X	☐	☐	☐
29.	Printing and publishing	X	X	X	X
30.	Pulp and paperboard mills	X	X	X	X
31.	Rubber processing	X	X	X	☐
32.	Soap and detergent manufacturing	X	X	X	☐
33.	Steam electric power plants	X	X	☐	☐
34.	Textile mills (except Subpart C, Greige Mills)	X	X	X	☐
35.	Timber products processing	X	X	X	X

Key

* See note at conclusion of 40 CFR 122, Appendix D (1983) for explanation of effect of suspensions on testing requirements for primary industry categories

† The pollutants in each fraction are listed in Table B

X Testing is required

☐ Testing is not required

TABLE A

Conventional and Non-Conventional Pollutants

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf GSL Phase 1Lithium Extraction Project	Outfall Number	002

Table A. Conventional and Non-Conventional Pollutants[1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (optional): Long-Term Average	Intake (optional): Number of Analyses
☐	Check here if you have applied to Utah DWQ for a waiver for ***all*** of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	☐						
			Mass	☐						
2.	Chemical oxygen demand (COD)	☐	Concentration	☐						
			Mass	☐						
3.	Total organic carbon (TOC)	☑	Concentration	☐						
			Mass	☐						
4.	Total suspended solids (TSS)	☐	Concentration	☑						
			Mass	☐						
5.	Ammonia (as N)	☑	Concentration	☐						
			Mass	☐						
6.	Flow	☐	Rate	☐						
7.	Temperature (winter)	☐	Fahrenheit	☑						
	Temperature (summer)	☐	Fahrenheit	☑						
8.	pH (minimum)	☐	Standard units	SU						
	pH (maximum)	☐	Standard units	SU						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

TABLE B

Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.	Antimony, Total (7440-36-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	Arsenic, Total (7440-38-0)	☑	☑	☐	Concentration	☐						
					Mass	☐						
3.	Beryllium, Total (7440-41-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	Cadmium, Total (7440-43-9)	☑	☑	☐	Concentration	☐						
					Mass	☐						
5.	Chromium, Total (7440-47-3)	☑	☑	☐	Concentration	☐						
					Mass	☐						
6.	Copper, Total (7440-50-8)	☑	☑	☐	Concentration	☐						
					Mass	☐						
7.	Lead, Total (7439-92-1)	☑	☑	☐	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 1. Toxic Metals, Cyanide, and Total Phenols *continued*												
8.	Mercury, Total (7439-97-6)	☑	☑	☐	Concentration	☐	1					
					Mass	☐						
9.	Nickel, Total (7440-02-0)	☑	☑	☐	Concentration	☐						
					Mass	☐						
10.	Selenium, Total (7782-49-2)	☑	☑	☐	Concentration	☐						
					Mass	☐						
11.	Silver, Total (7440-22-4)	☑	☑	☐	Concentration	☐						
					Mass	☐						
12.	Thallium, Total (7440-28-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	Zinc, Total (7440-66-6)	☑	☑	☐	Concentration	☐						
					Mass	☐						
14.	Cyanide, Total (57-12-5)	☑	☑	☐	Concentration	☐						
					Mass	☐						
15.	Phenols, Total	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds)												
1.	Acrolein (107-02-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	Acrylontrile (107-13-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	Benzene (71-43-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	Bromoform (75-25-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	Chlorodibrompmethane (124-48-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	Chloroethane (75-00-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT 0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
9.	2-chloroethylvinyl either (110-75-80)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Chloroform (67-66-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	1,2-dichloroethane (78-875)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extratcion Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
17.	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	Methyl bromide (74-83-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	Methyl chloride (74-87-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	Methylene chloride (75-09-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	1,1,2,2-tetrachloroethane (79-34-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	Tetrachloroethlyne (127-18-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	Toluene (108-88-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
25.	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
26.	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
27.	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
28.	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Continue to Section 3

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 3. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Acid Compounds)												
1.	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 3. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Acid Compounds) ***continued***												
9.	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Phenol (108-95-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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Continue to Section 4

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds)												
1.	Acenaphthene (83-32-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	Acenaphthylene (208-96-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	Anthracene (120-12-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	Benzidine (92-97-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	Benzo (a) anthracene (56-55-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Benzo (a) pyrene (50-32-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
9.	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	Bis (2-ethylhexyl) phthalate (85-68-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	2-chlorophthalene (91-58-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
17.	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	Chrysene (218-01-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
25.	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
26.	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
27.	2,4-dinotrotoluene (121-14-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
28.	2,6-dinotrotoluene (121-14-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
29.	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
30.	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
31.	Fluoranthene (206-44-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
32.	Fluorene (86-37-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
33.	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
34.	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
35.	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
36.	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
37.	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
38.	Isophorone (78-59-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
39.	Naphthalene (91-20-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
40.	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
41.	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
42.	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
43.	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
44.	Phenanthrene (85-01-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
45.	Pyrene (129-00-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
46.	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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Continue to Section 5

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
1.	Aldrin (309-00-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	α-BHC (319-84-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	β-BHC (319-85-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	γ-BHC (58-89-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	δ-BHC (319-86-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Chlorodane (57-74-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
9.	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Dieldrin (60-57-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	α-endosulfan (115-29-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	β-endosulfan (115-29-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	Endrin (72-20-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	Heptachlor (76-44-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
17.	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	PCB-1242 (53469-21-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	PCB-1254 (11097-69-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	PCB-1221 (11104-28-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	PCB-1232 (11141-16-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	PCB-1248 (12672-29-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	PCB-1260 (11096-82-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	PCB-1016 (12674-11-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1GSL Lithium Extraction Project	Outfall Number	002

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) *continued*												
25.	Toxaphene (8001-35-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

TABLE C

Certain Conventional and Non-Conventional Pollutants

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table C. Certain Conventional and Non-Conventional Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
☐	Check here if you believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need ***not*** complete the "Presence or Absence" column of Table C for *each pollutant.*										
☐	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need ***not*** complete the "Presence or Absence" column of Table C for *each pollutant.*										
1.	Bromide (24959-67-9)	☑	☐	Concentration	☐						
				Mass	☐						
2.	Chlorine, total residual	☐	☑	Concentration	☐						
				Mass	☐						
3.	Color	☐	☑	Concentration	☐						
				Mass	☐						
4.	E.coli	☐	☑	Concentration	☐						
				Mass	☐						
5.	Fluoride (16984-48-8)	☐	☑	Concentration	☐						
				Mass	☐						
6.	Nitrate	☐	☑	Concentration	☐						
				Mass	☐						
7.	Nitrite	☐	☑	Concentration	☐						
				Mass	☐						
8.	Nitrogen, total organic (as N)	☐	☑	Concentration	☐						
				Mass	☐						

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See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
9.	Oil and Grease	☐	☑	Concentration	☐						
				Mass	☐						
10.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration	☐						
				Mass	☐						
11.	Sulfate (as SO_4) (14808-798-)	☑	☐	Concentration	☐						
				Mass	☐						
12.	Sulfide (as S)	☐	☑	Concentration	☐						
				Mass	☐						
13.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration	☐						
				Mass	☐						
14.	Surfactants	☐	☑	Concentration	☐						
				Mass	☐						
15.	Aluminum, total (7429-90-5)	☑	☐	Concentration	☐						
				Mass	☐						
16.	Barium, total (7440-39-3)	☑	☐	Concentration	☐						
				Mass	☐						
17.	Boron, total (7440-42-8)	☑	☐	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
18.	Cobalt, total (7440-48-4)	☐	☑	Concentration	☐						
				Mass	☐						
19.	Iron, total (7439-89-6)	☑	☐	Concentration	☐						
				Mass	☐						
20.	Magnesium, total (7439-95-4)	☑	☐	Concentration	☑						
				Mass	☐						
21.	Molybdenum, total (7439-95-4)	☑	☐	Concentration	☑						
				Mass	☐						
22.	Manganese, total (7439-95-5)	☑	☐	Concentration	☐						
				Mass	☐						
23.	Tin, total (7440-31-5)	☐	☑	Concentration	☐						
				Mass	☐						
24.	Titanium, total (7440-32-6)	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

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Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
25.	Radioactivity										
	Alpha, total	☐	☑	Concentration	☐						
				Mass	☐						
	Beta, total	☐	☑	Concentration	☐						
				Mass	☐						
	Radium, total	☐	☑	Concentration	☐						
				Mass	☐						
	Radium 226, total	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

TABLE D

Certain Hazardous Substances and Asbestos

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table D. Certain Hazardous Substances and Asbestos [1]

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	24-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic aicd	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acied)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-triclorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
76.	Vandium	☐	☑		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zioconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name		Outfall Number	

Hazardous Substances

1. Acetaldehyde
2. Acetic acid
3. Acetic anhydride
4. Acetone cyanohydrin
5. Acetyl bromide
6. Acetyl chloride
7. Acrolein
8. Acrylonitrile
9. Adipic acid
10. Aldrin
11. Allyl alcohol
12. Allyl chloride
13. Aluminum sulfate
14. Ammonia
15. Ammonium acetate
16. Ammonium benzoate
17. Ammonium bicarbonate
18. Ammonium bichromate
19. Ammonium bifluoride
20. Ammonium bisulfite
21. Ammonium carbamate
22. Ammonium carbonate
23. Ammonium chloride
24. Ammonium chromate
25. Ammonium citrate
26. Ammonium fluoroborate
27. Ammonium fluoride
28. Ammonium hydroxide
29. Ammonium oxalate
30. Ammonium silicofluoride
31. Ammonium sulfamate
32. Ammonium sulfide
33. Ammonium sulfite
34. Ammonium tartrate
35. Ammonium thiocyanate
36. Ammonium thiosulfate
37. Amyl acetate
38. Aniline
39. Antimony pentachloricle
40. Antimony potassium tartrate
41. Antimony tribromide
42. Antimony trichloride
43. Antimony trifluoride
44. Antimony trioxide
45. Arsenic disulfide
46. Arsenic pentoxide
47. Arsenic trichloride
48. Arsenic trioxide
49. Arsenic trisulfide
50. Barium cyanide
51. Benzene
52. Benzoic acid
53. Benzonitrile
54. Benzoyl chloride
55. Benzyl chloride
56. Beryllium chloride
57. Beryllium fluoride
58. Beryllium nitrate
59. Butylacetate
60. n-butylphthalate
61. Butylamine
62. Butyric acid
63. Cadmium acetate
64. Cadmium bromide
65. Cadmium chloride
66. Calcium arsenate
67. Calcium arsenite
68. Calcium carbide
69. Calcium chromate
70. Calcium cyanide
71. Calcium dodecylbenzenesulfonate
72. Calcium hypochlorite
73. Captan
74. Carbaryl
75. Carbofuran
76. Carbon disulfide
77. Carbon tetrachloride
78. Chlordane
79. Chlorine
80. Chlorobenzene
81. Chloroform
82. Chloropyrifos
83. Chlorosulfonic acid
84. Chromic acetate
85. Chromic acid
86. Chromic sulfate
87. Chromous chloride
88. Cobaltous bromide
89. Cobaltous formate
90. Cobaltous sulfamate
91. Coumaphos
92. Cresol
93. Crotonaldehyde
94. Cupric acetate
95. Cupric acetoarsenite
96. Cupric chloride
97. Cupric nitrate
98. Cupric oxalate
99. Cupric sulfate
100. Cupric sulfate ammoniated
101. Cupric tartrate
102. Cyanogen chloride
103. Cyclohexane
104. 2,4-D acid (2,4-dichlorophenoxyacetic acid)
105. 2,4-D esters (2,4-dichlorophenoxyacetic acid esters)
106. DDT
107. Diazinon
108. Dicamba
109. Dichlobenil
110. Dichlone
111. Dichlorobenzene
112. Dichloropropane
113. Dichloropropene
114. Dichloropropene-dichloproropane mix
115. 2,2-dichloropropionic acid
116. Dichlorvos
117. Dieldrin
118. Diethylamine
119. Dimethylamine
120. Dinitrobenzene
121. Dinitrophenol
122. Dinitrotoluene
123. Diquat
124. Disulfoton
125. Diuron
126. Dodecylbenzesulfonic acid
127. Endosulfan
128. Endrin
129. Epichlorohydrin
130. Ethion
131. Ethylbenzene
132. Ethylenediamine
133. Ethylene dibromide
134. Ethylene dichloride
135. Ethylene diaminetetracetic acid (EDTA)
136. Ferric ammonium citrate
137. Ferric ammonium oxalate
138. Ferric chloride
139. Ferric fluoride
140. Ferric nitrate
141. Ferric sulfate
142. Ferrous ammonium sulfate
143. Ferrous chloride
144. Ferrous sulfate
145. Formaldehyde
146. Formic acid
147. Fumaric acid
148. Furfural
149. Guthion
150. Heptachlor
151. Hexachlorocyclopentadiene
152. Hydrochloric acid
153. Hydrofluoric acid
154. Hydrogen cyanide
155. Hydrogen sulfide
156. Isoprene
157. Isopropanolamine dodecylbenzenesulfonate
158. Kelthane
159. Kepone
160. Lead acetate
161. Lead arsenate
162. Lead chloride
163. Lead fluoborate
164. Lead fluorite
165. Lead iodide
166. Lead nitrate
167. Lead stearate
168. Lead sulfate
169. Lead sulfide
170. Lead thiocyanate
171. Lindane
172. Lithium chromate
173. Malathion
174. Maleic acid
175. Maleic anhydride
176. Mercaptodimethur
177. Mercuric cyanide
178. Mercuric nitrate
179. Mercuric sulfate
180. Mercuric thiocyanate
181. Mercurous nitrate
182. Methoxychlor
183. Methyl mercaptan
184. Methyl methacrylate
185. Methyl parathion
186. Mevinphos
187. Mexacarbate
188. Monoethylamine
189. Monomethylamine
190. Naled
191. Naphthalene
192. Naphthenic acid
193. Nickel ammonium sulfate
194. Nickel chloride
195. Nickel hydroxide
196. Nickel nitrate
197. Nickel sulfate
198. Nitric acid
199. Nitrobenzene
200. Nitrogen dioxide
201. Nitrophenol
202. Nitrotoluene
203. Paraformaldehyde
204. Parathion
205. Pentachlorophenol
206. Phenol
207. Phosgene
208. Phosphoric acid
209. Phosphorus
210. Phosphorus oxychloride
211. Phosphorus pentasulfide
212. Phosphorus trichloride
213. Polychlorinated biphenyls (PCB)
214. Potassium arsenate
215. Potassium arsenite
216. Potassium bichromate
217. Potassium chromate
218. Potassium cyanide
219. Potassium hydroxide
220. Potassium permanganate
221. Propargite
222. Propionic acid
223. Propionic anhydride
224. Propylene oxide
225. Pyrethrins
226. Quinoline
227. Resorcinol
228. Selenium oxide
229. Silver nitrate
230. Sodium
231. Sodium arsenate
232. Sodium arsenite
233. Sodium bichromate
234. Sodium bifluoride
235. Sodium bisulfite
236. Sodium chromate
237. Sodium cyanide
238. Sodium dodecylbenzenesulfonate
239. Sodium fluoride
240. Sodium hydrosulfide
241. Sodium hydroxide
242. Sodium hypochlorite
243. Sodium methylate
244. Sodium nitrite
245. Sodium phosphate (dibasic)
246. Sodium phosphate (tribasic)
247. Sodium selenite
248. Strontium chromate
249. Strychnine
250. Styrene
251. Sulfuric acid
252. Sulfur monochloride
253. 2,4,5-T acid (2,4,5-trichlorophenoxyacetic acid)
254. 2,4,5-T amines (2,4,5-trichlorophenoxy acetic acid amines)
255. 2,4,5-T esters (2,4,5-trichlorophenoxy acetic acid esters)
256. 2,4,5-T salts (2,4,5-trichlorophenoxy acetic acid salts)
257. 2,4,5-TP acid (2,4,5-trichlorophenoxy propanoic acid)
258. 2,4,5-TP acid esters (2,4,5-trichlorophenoxy propanoic acid esters)
259. TDE (tetrachlorodiphenyl ethane)
260. Tetraethyl lead
261. Tetraethyl pyrophosphate
262. Thallium sulfate
263. Toluene
264. Toxaphene
265. Trichlorofon
266. Trichloroethylene
267. Trichlorophenol
268. Triethanolamine dodecylbenzenesulfonate
269. Triethylamine
270. Trimethylamine
271. Uranyl acetate
272. Uranyl nitrate
273. Vanadium penoxide
274. Vanadyl sulfate
275. Vinyl acetate
276. Vinylidene chloride
277. Xylene
278. Xylenol
279. Zinc acetate
280. Zinc ammonium chloride
281. Zinc borate
282. Zinc bromide
283. Zinc carbonate
284. Zinc chloride
285. Zinc cyanide
286. Zinc fluoride
287. Zinc formate
288. Zinc hydrosulfite
289. Zinc nitrate
290. Zinc phenolsulfonate
291. Zinc phosphide
292. Zinc silicofluoride
293. Zinc sulfate
294. Zirconium nitrate
295. Zirconium potassium fluoride
296. Zirconium sulfate
297. Zirconium tetrachloride

TABLE E

2,3,7,8 Tetrachlorodibenzo P Dioxin (2,3,7,8 TCDD)

See Final Monitoring Report, Great Salt Lake Lithium extraction demo plant project and Attachment

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
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Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.	UT0026280	Facility Name	Waterleaf Phase 1 GSL Lithium Extraction Project	Outfall Number	002

Table E. 2,3,7,8 Tetrachlorodibenzo P Dioxin (2,3,7,8 TCDD)

	Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
			Believed Present	Believed Absent	
1.	2,3,7,8-TCDD	☐	☐	☑	

ATTACHMENT 1

Groundwater Source Memo

Memo

Date:	Tuesday, August 19, 2025
Project:	Waterleaf GSL Lithium Extraction Commercial Plant
To:	File
From:	Nate Nichols, Karen Nichols, HDR
Subject:	Water Quality analysis of ground water source, existing well @ 41.466255, -112.646907 Waterleaf Resources GSL Phase 1 Lithium Extraction Project

This Memo provides details to support Waterleaf Resources Great Salt Lake (GSL) Lithium Extraction Commercial plant CWA 402 Utah Pollution Discharge Elimination Systems (UPDES permit #0026280 modification application and Anti Degradation Review (ADR). This memo provides water quality data from the proposed groundwater source that is planned to provide process make up water during the operation of the Commercial Plant.

Groundwater Source

Waterleaf Resources provides the following groundwater quality data from the existing agricultural groundwater well located at 41.466255, -112.646907. Water samples were collected from this well by HDR staff on 6/24/2025. Staff performed field calibration for pH, Conductivity and Turbidity. Temp and DO meters were calibrated and verified before entering the field. The Horiba U-52-2 field water quality meter was utilized to monitor flow of the well until the temperature and pH stabilized during a flow- through technique, after which the sample was collected.

Density readings were collected using an Anton-Parr density meter, which was calibrated and field verified using laboratory grade de-ionized water as a reference.

HDR Staff collected grab samples once the team was confident that the well casing had been flushed and the flow was representative of groundwater conditions. Samples were delivered to Chemtech -ford in Sandy Utah within all required hold times.

Water Quality Results

Table 1 below shows both laboratory results, methodology and Minimum Detection Limit for constituents, as well as field collected measurements.

Table 1. Groundwater Quality Results

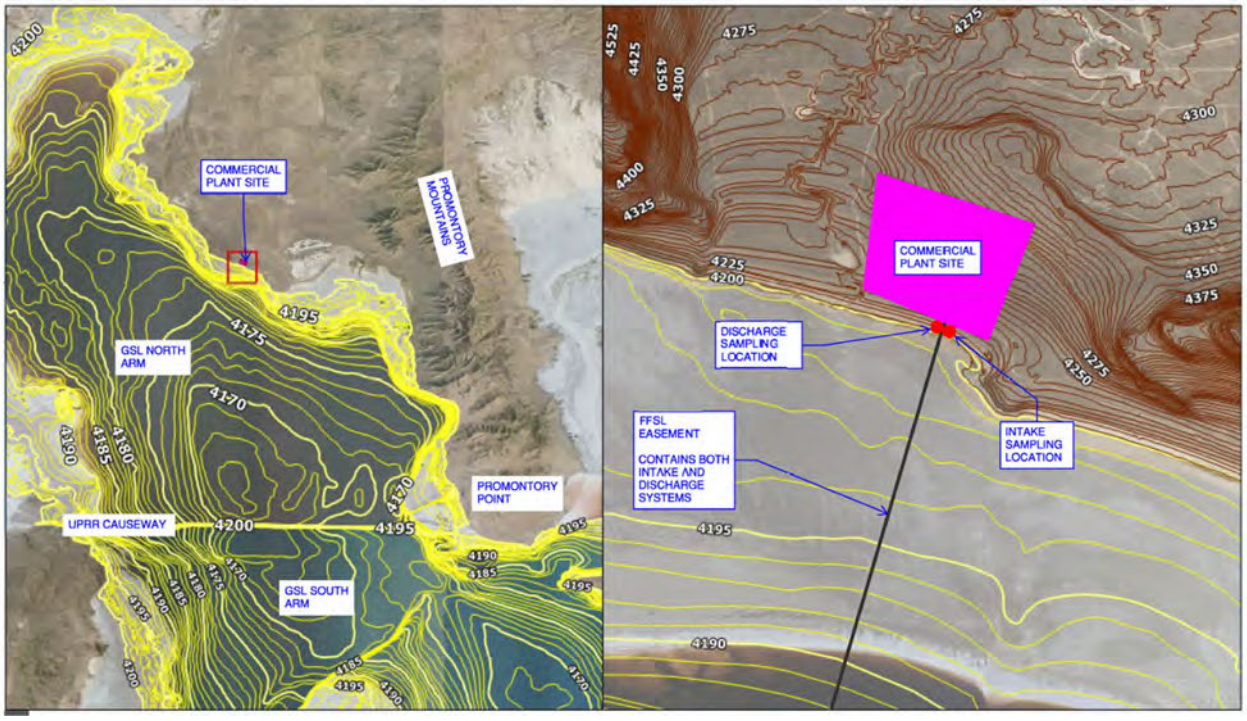
Constituent	Method	Concentration	Minimum Detection Limit (mg/L unless otherwise noted)
Mercury, Total	EPA 1631	<0.4 ng/L	0.4(ng/L)
Aluminum, Total	EPA 200.7	<0.05	0.05
Boron, Total	EPA 200.7	0.39	0.02
Barium, Total	EPA 200.7	0.078	0.002
Iron, Total	EPA 200.7	<0.02	0.02
Lithium, Total	EPA 200.7	0.378	0.016
Potassium, Total	EPA 200.7	48.1	0.3
Silica, (as SiO2) Total	EPA 200.7	34.9	0.2
Sodium, Total	EPA 200.7	688	6.9
Arsenic, Total	EPA 200.8	0.0043	0.0002
Cadmium, Total	EPA 200.8	<0.00005	0.00005
Chromium, Total	EPA 200.8	0.0048	0.0002
Copper, Total	EPA 200.8	0.0023	0.0007
Lead, Total	EPA 200.8	<0.0003	0.0003
Manganese, Total	EPA 200.8	0.0028	0.0006
Molybdenum, Total	EPA 200.8	0.0017	0.0002
Nickel, Total	EPA 200.8	0.0013	0.0004
Selenium, Total	EPA 200.8	0.00778	0.00057
Silver, Total	EPA 200.8	<0.0003	0.0003
Zinc, Total	EPA 200.8	0.05	0.002
Chemical Oxygen Demand	Hach 8000	<6	6
Total Dissolved Solids (TDS)	SM 2540 C	3830	20
Total Suspended Solids (TSS)	SM 2540 D	<3	3
Biochemical Oxygen Demand	SM 5210 B	<2	2
Field collected parameters			
pH	Horiba U-52-2	8.15	N/A
Temp	Horiba U-52-2	16.59 C	N/A
Dissolved Oxygen	Horiba U-52-2	21.06 mg/L	N/A
Conductivity	Horiba U-52-2	4.23 ms/cm	N/A
Turbidity	Horiba U-52-2	0.000 NTU	N/A
Density	Anton-Parr density meter	0.9906 g/cm^2	N/A

ATTACHMENT 2

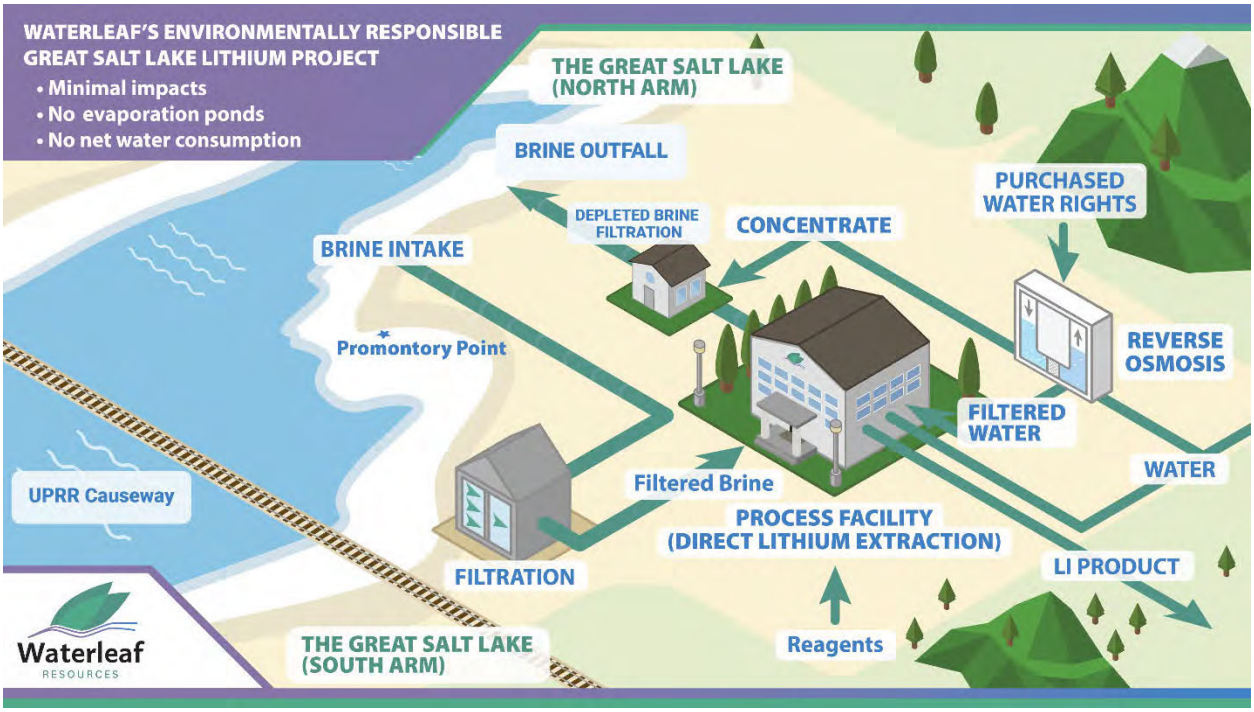
UPDES Permit Modification Additional Information

Waterleaf Phase1 Great Salt Lake Lithium Extraction Facility (Commercial Plant)—Additional Information

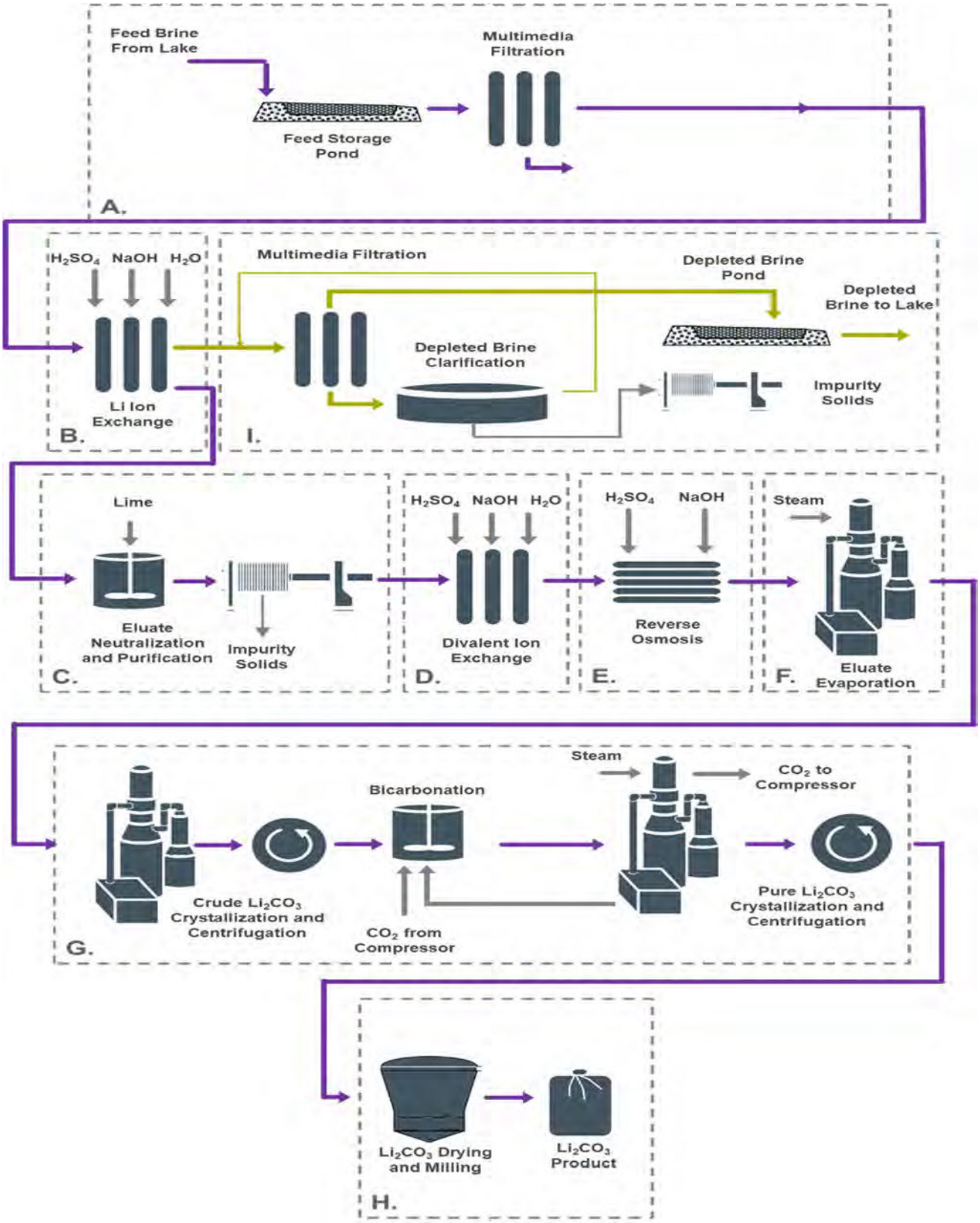
Facility Location Map



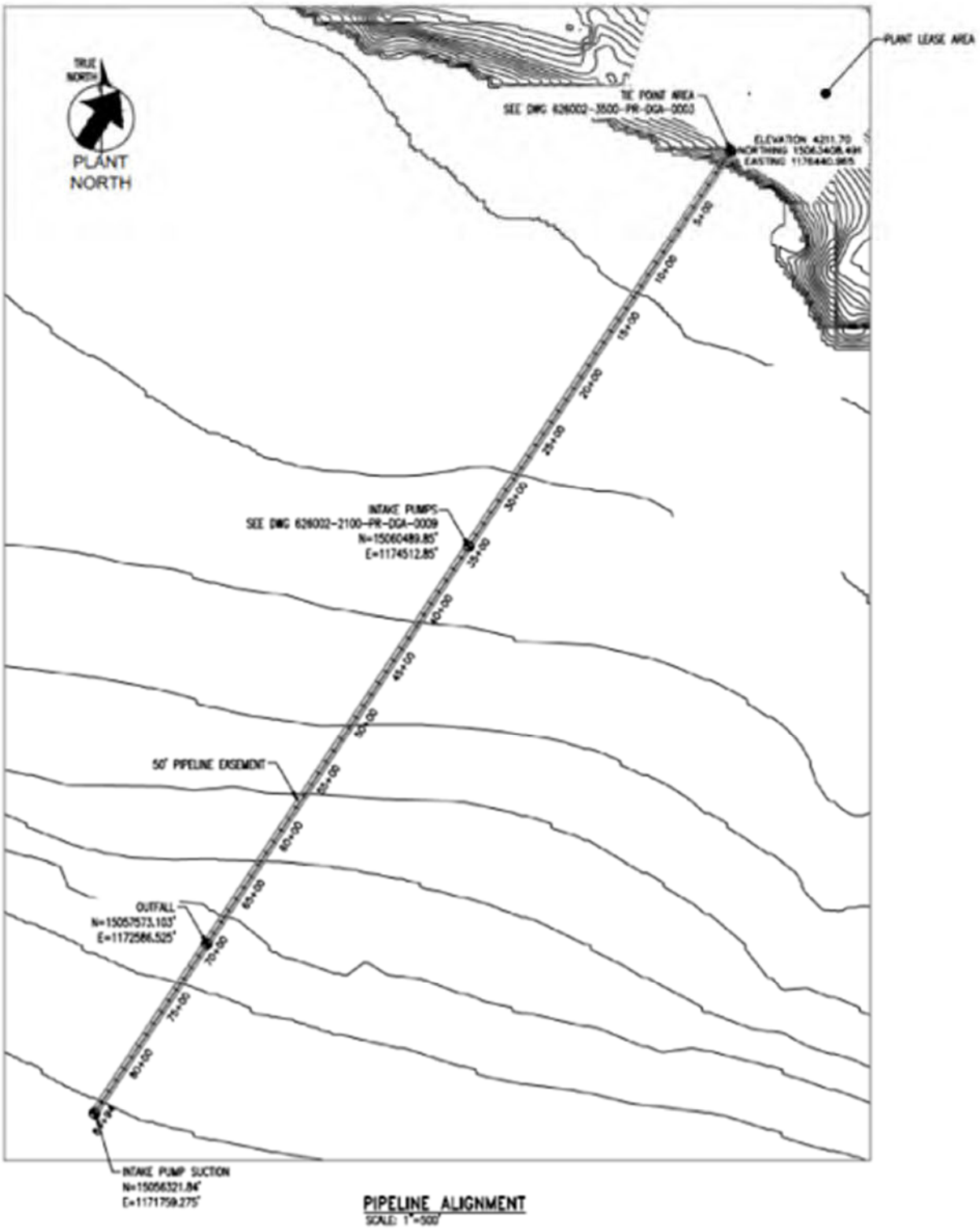
Facility Plan



Facility Process Schematic Diagram



Intake and Outfall Infrastructure



Commercial Plant Discharge Characteristics

Constituent	Influent Average (min/max)	Discharge Average (min/max)
Alkalinity	569 (526/599)	360 (119/504)
Aluminum, total	1.7 (<1.2/5.2)	1.6 (<1.2/5.1)
Arsenic, total	0.477 (0.361/0.620)	0.322 (0.054/0.483)
Barium, total	0.190 (<0.057/0.342)	0.169 (<0.057/0.322)
Bicarbonate	569 (526/599)	360 (119/504)
Biological oxygen demand	7.4 (<2.0/16)	6.7 (<2.0/13)
Boron, total	60.3 (50.6/65.5)	56.7 (46.7/62.8)
Bromide	174 (140/201)	160 (132/186)
Cadmium, total	<0.0012	<0.0012
Calcium, dissolved	302 (277/327)	291
Carbonate	<0.2	<0.2
Chemical oxygen demand (COD)	2,420 (<617.0/7,020)	1,617 (<617.0/4,300)
Chloride	181,400 (159,000/194,00)	178,965[1]
Chromium, total	0.072 (0.014/0.250)	0.069 (<0.0062/0.236)
Copper, total	0.0391 (0.0182/0.0759)	0.0470 (0.0052/0.1360)
Cyanide, total	<0.022	<0.022
Hardness	59,692 (55,400/67,100)	56,256 (48,600/62,700)
Hydroxide	<0.2	<0.2
Iron, total	0.58 (<0.57/0.80)	1.57 (<0.57/16.4)
Lead, total	<0.0087	<0.0087
Lithium, total	67.7 (55.1/81.6)	14.1
Magnesium, total	14,312 (13,300/16,100)	14,106
Manganese, total	0.0411 (0.0264/0.0794)	0.2385 (0.0554/0.91)
Mercury, total	33.2 ng/L (<9 ng/L/211 ng/L)	39.9 ng/L (<9ng/L/109 ng/L)
Molybdenum, total	0.136 (0.111/0.218)	0.111 (0.0169/0.312)
Nickel, total	0.049 (0.011/0.29)	0.052 (0.009/0.279)
Nitrate	<6.64	<6.64
Nitrite	<0.01	<0.01
Oil and grease	<5	<5
Potassium, total	8,662 (8,050/9,650)	8,545[1]
Selenium, total	0.308 (0.074/0.908)	0.301 (0.012/0.933)
Silica, total	5.3 (<4.2/7.7)	5.7 (<4.2/9.2)
Silicon[21]	2.5 (2.0/3.6)	2.7(2.0/4.3)
Silver, total	<0.008	<0.008
Sodium, dissolved	92,920 (79,000/112,000)	91,911
Sulfate, dissolved	24,220 (10,200/28,100)	24,352

Constituent	Influent Average (min/max)	Discharge Average (min/max)
Total dissolved solids (TDS)	340,040 (311,000/363,000)	312,640 (259,000/362,000)
Total suspended solids (TSS)	111 (<3/530)	106 (6/454)
Zinc, total	<0.05	<0.05

ATTACHMENT 3

Final Monitoring Report

Final Monitoring Report

Waterleaf Resources Great Salt Lake Lithium Extraction Demonstration Plant

Prepared for
Waterleaf Resources

Prepared by
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October 25, 2025

Contents

1 Introduction 1
1.1 Purpose 1
1.2 Background 2
2 Summary of Monitoring Means and Methods 3
2.1 Water Quality Monitoring 3
2.1.1 Field and Laboratory Parameters and Methods 3
2.1.2 Quality Assurance 5
2.2 Flow Monitoring 6
2.3 Biota Monitoring 6
3 Water Quality Results 8
3.1 Visual Observation Results 9
3.2 Chemistry Monitoring Results 9
3.3 Chemistry Monitoring Results Discussion and Graphs 14
3.3.1 Minimum Detection Limits and Uncertainty 15
3.3.2 Outlier Analyses 16
3.3.3 Metals Discussion 18
3.3.4 Salts Discussion 25
3.3.5 Manganese 28
3.3.6 Lithium 30
3.4 Field Chemistry Results 31
3.4.1 Density 31
3.4.2 Dissolved Oxygen 32
3.4.3 pH 33
3.4.4 Temperature 34
3.4.5 Influent and Discharge Water Salinity 34
4 Flow Monitoring Results 37
4.1 Monthly Volume Results 37
4.2 Total Water Balance 38
5 Biota Monitoring Results 39
5.1 Presence of Biota 39
5.2 Biota Diversity 40
5.3 Biota Growth in Discharge 43
6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation 45
6.1 Impacts on North Arm Salinity or Water Quality Chemistry 45
6.2 Impacts on North Arm Volume, Flows, or Water Levels 46
6.3 Impacts on North Arm Habitat 46
6.4 Impacts on North Arm Biota 47
7 References 48

Tables

Table 1. Water Quality Monitoring Laboratory Methods 4
Table 2. Dates of Water Quality Compliance Monitoring Events 8
Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28) 11
Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18) 13
Table 5. Summary of Outlier Analyses 17
Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations 23
Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm 24
Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm 28
Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm 29
Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm 31
Table 11. Summary of Field Measurements 31
Table 12. Influent and Discharge Density Results 36
Table 13. Demonstration Plant Influent and Discharge Flow Volume 37
Table 14. Biota Cell Counts and Dry Weight 39

Figures

Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations 19
Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations 22
Figure 3. Graphs of Salt Constituents 26
Figure 4. Graph of Manganese Influent and Discharge Data 29
Figure 5. Graph of Lithium Influent and Discharge Data 30
Figure 6. Density Graph 32
Figure 7. Dissolved Oxygen Graph 32
Figure 8. pH Graph 33
Figure 9. Temperature Graph 34
Figure 10. North Arm Volume 35
Figure 11. April 2025 Biota Abundance Graphs 41
Figure 12. June 2025 Biota Abundance Graphs 42
Figure 13. April and June 2025 Biota Growth Results 44

Appendices

A. UPDES Permit
B. Laboratory Data Results
C. Biota Monitoring Report

Abbreviations

°C	degrees Celsius
af	acre-feet
Demonstration Plant	Great Salt Lake Lithium Extraction Demonstration Plant
DLE	direct lithium extraction
DMR	discharge monitoring report
DNA	deoxyribonucleic acid
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
g/cm^3	grams per cubic centimeter
g/L	grams per liter
g/mL	grams per milliliter
g/mol	grams per mole
GSL	Great Salt Lake
IQR	interquartile range
ITS	internal transcribed spacer
IX	ion exchange
lb	pounds
maf	million acre-feet
MDL	minimum detection limit
mg/L	milligrams per liter
mL	milliliter
NA	not applicable
NetDMR	Network Discharge Monitoring Report
NVGD 1929	National Geodetic Vertical Datum of 1929
No.	number
rRNA	ribosomal ribonucleic acid
Si	silicon
SiO_2	silica (silicon dioxide)
UAC	Utah Administrative Code
UDFFSL	Utah Division of Forestry, Fire and State Lands
UDWQ	Utah Division of Water Quality
UGS	Utah Geological Survey
UPDES	Utah Pollutant Discharge Elimination System
USGS	U.S. Geological Survey
Waterleaf	Waterleaf Resources
WSE	water surface elevation

1 Introduction

Waterleaf Resources (Waterleaf) prepared this final monitoring report to present data and data analysis related to chemistry, flow, and biota data obtained during the operation of the Great Salt Lake (GSL) Lithium Extraction Demonstration Plant (Demonstration Plant).

The chemistry and flow data were collected, analyzed, and reported pursuant to Utah Pollutant Discharge Elimination System (UPDES) Permit No. UT0026280, which was issued to Waterleaf by the Utah Division of Water Quality (UDWQ) on February 4, 2025 (UDWQ 2025a). The Demonstration Plant's discharge of effluent to the GSL was authorized by the UPDES permit, which is provided in Appendix A, *UPDES Permit*. The UPDES permit also authorized the operation of the GSL lithium extraction facility, by certification by rule, under Utah Administrative Code (UAC) R317-16.

Summaries of the laboratory chemistry results and continuous flow monitoring data are provided in Appendix B, *Laboratory Test Results*.

The microbial diversity (biota) report (Baxter 2025; Appendix C, *Biota Monitoring Report*) is summarized in this final monitoring report. The biota report provides additional data that characterize the biota in the North Arm of the GSL and in the discharge flow of the Demonstration Plant. The UPDES permit did not require an assessment of the North Arm biota data.

1.1 Purpose

This report is being provided to support the applications for authorizations required to operate Waterleaf's GSL Phase 1 Lithium Extraction Commercial Plant. These applications are the UDWQ UPDES Permit UT0026280 modification, the UDWQ GSL Mineral Extraction Facility Operator Certification (Operator Certification) (UAC R317-16-5(4)), and Utah Division of Forestry, Fire and State Lands (UDFFSL) agreements.

The information in this report and appendices includes summaries of UPDES compliance monitoring data, continuous flow data, North Arm habitat identification, and additional data collected to characterize North Arm biota.

Demonstration Plant discharges are evaluated to determine that there would be no negative impacts to the GSL, as defined by UDWQ R317-16-16 and as supported by chemical monitoring results review and analysis, flow monitoring results, North Arm habitat inventory, and a North Arm biota monitoring study.

1.2 Background

The Waterleaf Resources Demonstration Plant operated from February 2025 through August 2025. The Demonstration Plant, a temporary facility, was operated to validate Waterleaf's proprietary ion-exchange (IX) direct lithium extraction (DLE) process. This proprietary technology is a nonconsumptive and nonevaporative process to extract lithium from GSL North Arm brine. GSL North Arm brine was conveyed to the plant, processed through the IX DLE equipment, and discharged back into the GSL with no brine depletion. Intake and outfall (influent and discharge) infrastructure was located in the open water of the North Arm of the GSL, and the Demonstration Plant's equipment and offices were located on the western slope of the Promontory Mountains in Box Elder County, Utah.

The North Arm (Gunnison Bay) of the GSL is classified as a Class 5B water of the state. It is protected by UDWQ for infrequent primary and secondary contact recreation, waterfowl, and shorebirds and other water-oriented wildlife including their necessary food chain (UAC R317-2-6.5). Numeric water quality standards for the North Arm are not established but narrative standards apply.

Influent brine and discharge water chemistry data, flow data, and biota data were collected during operation of the Demonstration Plant. Operation activities spanned 28 weeks during the winter, spring, and summer. The data collected reflect seasonal changes in GSL North Arm water surface levels, brine temperature, brine chemistry, salinity, and biota growth.

The influent and discharge chemistry weekly monitoring events summarized in this report were conducted and reported in accordance with the UPDES permit and UAC R317-16. The UPDES compliance monitoring data results, which were submitted electronically, can be accessed through the U.S. Environmental Protection Agency's (EPA) ECHO website for facility UT0026280.[1]

[1] U.S. Environmental Protection Agency, Enforcement and Compliance History Online (ECHO) website, National Pollutant Discharge Elimination System (NPDES) Monitoring Data Download page, https://echo.epa.gov/trends/loading-tool/get-data/monitoring-data-download.

2 Summary of Monitoring Means and Methods

This section summarizes the monitoring methods and means that were used to collect data during the Demonstration Plant's operation.

- **Water quality monitoring.** HDR conducted weekly composite water quality sampling and analysis on influent and discharge flows on behalf of Waterleaf.
- **Flow monitoring.** Waterleaf conducted continuous flow monitoring at the intake and outfall systems.
- **Biota monitoring.** Dr. Bonnie Baxter of Westminster University conducted biota monitoring on behalf of Waterleaf. Three biota monitoring events were conducted in 2025.

2.1 Water Quality Monitoring

HDR conducted the required water quality monitoring on behalf of Waterleaf. Required water quality monitoring occurred during the Demonstration Plant's operation in accordance with the UPDES permit (UDWQ 2025a). The data results were reported electronically via EPA's Network Discharge Monitoring Report (NetDMR) system. This section summarizes the means and methods that were used to collect water quality samples and perform the laboratory analyses.

2.1.1 Field and Laboratory Parameters and Methods

HDR collected weekly water quality samples, which were composited for laboratory analysis. Discrete samples were collected every 2 hours over a 6-hour duration. Instantaneous flow rates were measured and used to prepare the flow-weighted composites for chemical analysis by a state-certified analytical laboratory. Chemtech-Ford Laboratory in Salt Lake City, Utah, conducted all water chemistry laboratory analyses.

Silicon (Si) concentrations were calculated by using the UDWQ equation (UDWQ 2025b), using silica concentrations and a molar mass conversion equation:

$[Si] * (SiO_2 \text{ molar mass} / Si \text{ molar mass}) = [SiO_2]$

$[Si] = [SiO_2] / (SiO_2 \text{ molar mass} / Si \text{ molar mass})$

$[Si] = [SiO_2] / (60.08 \text{ g/mol} / 28.09 \text{ g/mol})$

$\mathbf{[Si] = [SiO_2] / 2.139}$

Where: Si = Silicon concentration, mg/L
SiO_2 = Silica concentration, mg/L

In addition to the laboratory chemical analyses, field measurements were taken and reported for pH, dissolved oxygen, and temperature using a Horiba U-53-2 handheld multimeter. Field measurements for density were made using an Anton-Paar density meter. Table 1 lists the constituents and methods that were used for the water quality analysis.

Table 1. Water Quality Monitoring Laboratory Methods

Analysis Method	Constituents
Metals (Total)	
EPA 200.7, Metals in Water by ICP-AES	Boron, calcium, lithium, potassium, silica[1], sodium
EPA 200.8, Metals in Water by ICP/MS	Aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, molybdenum, nickel, selenium, silver, zinc
EPA 1631, Mercury in Water by CVAFS	Mercury
Inorganic Nonmetals	
EPA 300.0, Determination of Inorganic Anions by Ion Chromatography	Bromide, chloride, nitrate, sulfate
EPA 335.4, Determination of Total Cyanide by Semi-automated Colorimetry	Cyanide
SM 2320 B, Alkalinity by Titration	Alkalinity, bicarbonate, carbonate, hardness, hydroxide
SM 4500 NO_2 B, Nitrite by Colorimetry	Nitrite
SM 5210 B, 5-Day BOD Test	Biochemical oxygen demand (BOD)
Hach 8000, EPA Reactor Digestion Method	Chemical oxygen demand (COD)
APHA Standard Method 2540 C, Total Dissolved Solids Dried at 180°C	Total dissolved solids (TDS)
APHA Standard Method 2540 D, Total Suspended Solids Dried at 103–105°C	Total suspended solids (TSS)
Other Methods	
Field Measurement – Instantaneous	Dissolved oxygen, pH, water temperature, density, flow
Visual Observations	Unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor
Grab Sample	Oil and grease
Continuous Monitoring	Influent and discharge flows

Definitions: °C = degrees Celsius; AES = atomic emission spectroscopy; APHA = American Public Health Association; BOD = biochemical oxygen demand; CVAFS = cold vapor atomic fluorescence spectroscopy; EPA = U.S. Environmental Protection Agency; ICP = inductively coupled plasma; MS = mass spectrometry; NO_2 = nitrogen dioxide; SM = Standard Method

1. Silica data have been used to calculate silicon values.

2.1.2 Quality Assurance

Water quality data were analyzed in accordance with the UPDES permit requirements; these requirements include constituents analyzed, frequency, and laboratory minimum detection limits (MDLs). Additional UDWQ Director's requirements were included in the UPDES permit, including providing laboratory Level IV data quality packages. Level IV data quality packages were submitted electronically with the discharge monitoring reports (DMRs).

As a result of this process, Waterleaf observed the following:

- **Precision**
  - Field duplicate samples were collected by UDWQ staff during February and March 2025 as required by UPDES permit UT0026280 and were analyzed to validate Waterleaf's sample results.
  - The precision of the water quality results is documented in the Level IV data quality packages, which include equipment calibration and validation.
- **Accuracy and Bias**
  - Field instrument calibration met manufacturers' requirements.
  - Laboratory quality assurance/quality control (QA/QC) met each laboratory's internal method requirements.
  - Trace-level mercury was not detected in field blank samples when analyzed during the May 1, 2025, monitoring event.
- **Representativeness**
  - All field measurements and samples were collected from locations and on a frequency as required by UPDES permit UT0026280.
  - Weekly compliance monitoring events were conducted when the Demonstration Plant discharged to the GSL (February through August 2025). During the Demonstration Plant's operation, discharges to the GSL were suspended for thee 1-week periods, so compliance monitoring was not conducted during those three 1-week periods.
- **Completeness**
  - Field and laboratory completeness requirements were met.
- **Comparability**
  - Field conditions were within the range of the selected in-situ meter and probe capabilities.
  - Laboratory method detection limits were sufficient to meet UPDES requirements and data quality objectives (Waterleaf 2025a).

Detailed Level IV laboratory quality control and quality assurance documentation was submitted electronically via EPA's NetDMR system. This documentation can be accessed through EPA's ECHO website, as discussed in Section 1.2, *Background*.

2.2 Flow Monitoring

Waterleaf conducted continuous and instantaneous flow monitoring on influent and discharge flows during the Demonstration Plant's operation.

Continuous flow monitoring was conducted using Krohne Optiflux 4300 and Rosemount Magnetic flow meters installed in the Demonstration Plant's intake and outfall infrastructure, respectively. Influent flow monitoring occurred before GSL brine entered the intake holding tank; discharge flow monitoring occurred after brine was discharged from the outfall holding tank. Inline flow meters were installed to continuously monitor the influent flows from the GSL and discharges to the GSL.

Instantaneous flow monitoring was conducted by HDR during water chemistry monitoring events. For each discrete water quality sample, an instantaneous flow measurement was recorded. These instantaneous flow measurements were used to prepare the flow-weighted composite sample for laboratory analysis. Instantaneous flows were recorded from the Waterleaf continuous flow meters.

2.3 Biota Monitoring

Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to study the microbial biomass and community (bacteria, archaea, algae, and fungi) in the influent to and discharge from the Demonstration Plant, which was located on the eastern shore of the North Arm of the GSL (Baxter 2025). The goals of the study were to characterize the biota community in the influent flow and evaluate whether the discharge from the Demonstration Plant affected the biota community of the North Arm.

The following data collection and analysis were conducted to evaluate the influent and discharge characteristics during the Demonstration Plant's operation:

- Identify the biota cells present to estimate cell density and measure biomass.
- Extract and sequence DNA associated with bacteria, archaea, algae, and fungi to determine their abundance and presence.
- Inoculate samples to determine cell growth rate for three conditions: influent, discharge, and a mix (50:50) of influent and discharge.

To identify the presence or absence of biota cells, Dr. Baxter collected water samples from the raw brine intake tank and the Demonstration Plant's discharge tank and pumped the samples through a sterile polyvinylidene fluoride (PVDF) membrane pressure filter unit with a pore size of 0.22 micrometer (µm) to analyze the accumulated biomass. The filter media were frozen on site with liquid nitrogen to preserve the samples and were transported to the lab frozen on dry ice. In the lab, the samples were run through a centrifuge and dried to create a pellet of the cells, and the dry weight of the cell pellet was measured. Using a hemacytometer (which provides a grid and special cover glass to control the distributed volume), the cell density in each of the samples was estimated. The presence of cells in the influent and discharge flows was then verified and further analyzed through biosignatures (DNA sequencing).

To identify microbial diversity, the filter samples were sent to an external laboratory to conduct the DNA sequencing, which establishes the species of life present. The lab

extracted the biota DNA from filters and then amplified the specific genes associated with bacteria, archaea, algae, and fungi. Evaluations were conducted on the DNA sequencing results to determine the presence and relative abundance of microbial taxa present in the influent and discharge water samples. The genetic data were examined and assembled by relative abundance, meaning that the abundance of species can be compared within a specific sample but not to other sample results.

Water samples were inoculated by Dr. Baxter, and biota and observations were logged over 24 days to document growth rates. Four water samples were inoculated: sterile, influent (raw brine), discharge brine, and a 50:50 mix of influent and discharge. The 50:50 mix represents North Arm brine mixed with discharge brine to determine whether the biota would grow that environment.

3 Water Quality Results

The results of each water quality compliance monitoring event were submitted electronically to EPA's NetDMR website in accordance with the UPDES permit requirements. Analytical laboratory data quality Level IV packages were submitted electronically. Laboratory results are provided in Appendix B, *Laboratory Data Results*. A summary of those results is provided below.

Influent and discharge samples were collected and analyzed weekly during the Demonstration Plant's operation. Table 2 lists the dates of the water quality compliance monitoring events annotated with a description of Demonstration Plant operation phases.

Table 2. Dates of Water Quality Compliance Monitoring Events

Week	Sampling Date	Influent Sampling	Discharge Sampling	Notes
1	2/6/25	✓	✓	Start-up operations
2	2/13/25	✓	✓	Start-up operations
3	2/20/25	—	—	No discharge
4	2/26/25	✓	✓	Start-up operations
5	3/425	✓	✓	Start-up operations
6	3/13/25	✓	✓	Equipment validation
7	3/18/25	✓	✓	Equipment validation
8	3/25/25	✓	✓	Equipment validation
9	4/2/25	✓	✓	Equipment validation
10	4/8/25	✓	✓	Equipment validation
11	4/15/25	✓	✓	Equipment validation
12	4/22/25	✓	✓	Equipment validation
13	5/1/25	✓	✓	Equipment validation
14	5/6/25	✓	✓	Equipment validation
15	5/12/25	—	—	No discharge
16	5/20/25	✓	✓	Performance run
17	5/29/25	✓	✓	Performance run
18	6/03/25	✓	✓	Performance run
19	6/12/25	✓	✓	Equipment validation
20	6/17/25	✓	✓	Equipment validation
21	6/24/25	✓	✓	Equipment validation
22	7/1/25	✓	✓	Equipment validation
23	7/10/25	✓	✓	Equipment validation
24	7/15/25	✓	✓	Equipment validation
25	7/22/25	—	—	No discharge
26	7/29/25	✓	✓	Equipment validation
27	8/7/25	✓	✓	Equipment validation
28	8/12/25	✓	✓	Equipment validation

3.1 Visual Observation Results

Observations of water quality covered by state narrative water quality standards were made and documented during compliance monitoring. These observations targeted unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor, that are specifically identified in the narrative standards. No floating debris, oil, scum, or odor were observed in the influent and discharge samples that were evaluated.

The color of the influent and discharge varied throughout the Demonstration Plant's operation; no color was observed early in the plant's operation (February and March), and color was increasingly observed in the influent for the remainder of the plant's operation (April through August). The color of the influent increasingly became pinker as the North Arm's brine temperatures rose and the presence of biota increased. This observation is normal and is supported by the biota monitoring that was conducted (see Appendix C, *Biota Monitoring Report*).

During the first several weeks of the Demonstration Plant's operation, steel rust flakes were observed in the discharge samples. The source of the rust flakes was determined to be corrosion from the intake and outfall steel holding tanks and other carbon steel equipment throughout the Demonstration Plant. Waterleaf observed that the steel holding tanks were corroding and that rust was flaking off the tank interiors as the brine levels fluctuated in the holding tanks and the exposed steel discolored and began to disintegrate.

After the observations were made, Waterleaf modified operation of the Demonstration Plant to minimize the change in water level in the tanks, thereby reducing the exposure of the steel tanks' interiors. The rust flakes were observed and recorded during the February biota monitoring event along with the presence of biota. The biota monitoring report concluded that the corrosion of the holding tanks was not adversely affecting the microorganisms in the discharge (Appendix C, *Biota Monitoring Report*). Rust flakes were not observed after week 5 of the Demonstration Plant's operation.

3.2 Chemistry Monitoring Results

The influent and discharge flows were sampled and analyzed in compliance with the UPDES permit and the Operator Certification. In all, 25 monitoring events were conducted at the Demonstration Plant during its 28-week operation (there was no discharge during 3 of the 28 weeks). A summary of all laboratory analytical results and laboratory MDLs is provided in Table 3 for each constituent in alphabetical order. Field measurements (density, dissolved oxygen, pH, and temperature) are discussed in Section 3.4, *Field Chemistry Results* including a discussion on salinity characteristics of the influent and discharge.

Additionally, as required by UDFFSL rules, a performance run period occurred during weeks 16 through 18 of operation (May 20 through June 10, 2025). During the performance run of the Demonstration Plant, equipment operations were optimized and maintained to measure certain performance metrics (Waterleaf 2025b). Table 4 summarizes average influent and discharge concentrations for this period.

In this section, Waterleaf examines the influent and discharge chemical data in context with laboratory MDLs and uncertainty or error. Also, the chemical data were evaluated for outliers based on interquartile range (IQR) outlier analysis.

During the 28-week operation of the Demonstration Plant, the plant operated in three phases: start-up operations, equipment validation, and performance run (see Table 2 for the duration of each phase). During start-up operations, spikes in some metal constituents and rust flakes were observed, as discussed above in Section 3.1. Data results during start-up are discussed in Section 3.3.3 and summarized in Table 6 for the specific metal constituents that had data spikes during start-up.

To assess whether Demonstration Plant mass loads changed North Arm background mass, loads for metals, salt, and manganese are compared in Table 7, Table 8, and Table 9.

Lithium concentrations and mass loading are provided in Table 10.

In addition to the chemical laboratory analyzes reported in this section, UPDES required the reporting of silicon. Waterleaf used the UDWQ molar mass equation, using silica laboratory results, including the MDL value for nondetect values. Using the UDWQ molar mass equation and the silica data results, the silicon data are:

- Influent characteristics:
    - Average concentration: 2.5 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 3.6 mg/L
- Discharge characteristics:
    - Average concentration: 2.7 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 4.3 mg/L

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Alkalinity	569 (526/599)	360 (119/504)	0.2	NA
Aluminum, total	1.7 (ND/5.2)	1.6 (ND/5.1)	1.2	NA
Arsenic, total	0.477 (0.361/0.620)	0.322 (0.054/0.483)	0.0044	0.180[1]
Barium, total	0.190 (ND/0.342)	0.169 (ND/0.322)	0.057	NA
Bicarbonate	569 (526/599)	360 (119/504)	0.2	NA
Biological oxygen demand	7.4 (ND/16)	6.7 (ND/13)	2.0	NA
Boron, total	60.3 (50.6/65.5)	56.7 (46.7/62.8)	0.61[2]	NA
Bromide	174 (140/201)	160 (132/186)	0.5[3]	NA
Cadmium, total	ND	ND	0.0012[4]	0.0052
Calcium, dissolved	302 (277/327)	288 (258/318)	0.7[5]	NA
Carbonate	ND	ND	0.2	NA
Chemical oxygen demand (COD)	2,420 (ND/7,020)	1,617 (ND/4,300)	617.0[6]	NA
Chloride	181,400 (159,000/194,00)	168,360 (144,000/181,000)	180.0	NA
Chromium, total	0.072 (0.014/0.250)	0.069 (ND/0.236)	0.0062[7]	0.0166
Copper, total	0.0391 (0.0182/0.0759)	0.0470 (0.0052/0.1360)	0.0182[8]	0.067
Cyanide, total	ND	ND	0.022[9]	0.0093
Hardness	59,692 (55,400/67,100)	56,256 (48,600/62,700)	11.7[10]	NA
Hydroxide	ND	ND	0.2	NA
Iron, total	0.58 (ND/0.80)	1.57 (ND/16.4)	0.57	NA
Lead, total	ND	ND[11]	0.0087[11]	0.0465
Lithium, total	67.7 (55.1/81.6)	30.8 (9.33/54.8)	0.403[12]	NA
Magnesium, total	14,312 (13,300/16,100)	13,480 (11,600/15,000)	2.4[13]	NA
Manganese, total	0.0411 (0.0264/0.0794)	0.2385 (0.0554/0.91)	0.0159[14]	NA
Mercury, total	33.2 ng/L (ND/211 ng/L)	39.9 ng/L (ND/109 ng/L)	9 ng/L[15]	0.000022
Molybdenum, total	0.136 (0.111/0.218)	0.111 (0.0169/0.312)	0.038[16]	NA
Nickel, total	0.049 (0.011/0.29)	0.052 (0.009/0.279)	0.0112[17]	0.376
Nitrate	ND	ND	6.64[18]	NA
Nitrite	ND	ND	0.01	NA
Oil and grease	ND	ND	5	NA
Potassium, total	8,662 (8,050/9,650)	8,138 (6,860/9,000)	8.6[19]	NA
Selenium, total	0.308 (0.074/0.908)	0.301 (0.012/0.933)	0.0141[20]	0.0079

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Silica, total	5.3 (ND/7.7)	5.7 (ND/9.2)	4.2	NA
Silver, total	ND	ND	0.008[21]	0.0899
Sodium, dissolved	92,920 (79,000/112,000)	86,568 (61,400/110,000)	343[22]	NA
Sulfate, dissolved	24,220 (10,200/28,100)	22,400 (12,600/28,200)	49.4[23]	NA
Total dissolved solids (TDS)	340,040 (311,000/363,000)	312,640 (259,000/362,000)	1,000[24]	NA
Total suspended solids (TSS)	111 (ND/530)	106 (6/454)	3[25]	NA
Zinc, total	ND	ND	0.05[26]	0.675

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. MDL for arsenic was reported as 0.0088 mg/L for week 1 and 0.022 mg/L for week 24.
2. MDL for boron was reported as 12.1 mg/L for week 9.
3. MDL for bromide varied between 0.5 and 4.7 mg/L.
4. MDL for cadmium was reported as 0.0061 mg/L for week 24.
5. MDL for calcium was reported as 14.6 mg/L for week 24.
6. MDL for COD was reported as 154 mg/L for weeks 1 through 11, 308 mg/L for week 12, and 617 mg/L for weeks 13 through 28.
7. MDL for chromium varied between 0.0062 and 0.0618 mg/L.
8. MDL for copper was reported as 0.0364 mg/L for week 1 and 0.0036 mg/L for week 5.
9. MDL for cyanide varied between 0.004 and 0.132 mg/L.
10. MDL for hardness varied between 11.7 and 234 mg/L.
11. MDL for lead was reported as 0.0174 mg/L for week 1 and 0.0435 mg/L for week 24; discharge value was reported at 0.015 mg/L for week 20.
12. MDL for lithium was reported as 8.07 mg/L for week 8.
13. MDL for magnesium was reported as 48 mg/L for weeks 8, 14, 15, 18, and 24, and 4.8 mg/L for week 4.
14. MDL for manganese was reported as 0.0318 mg/L for week 1.
15. MDL for mercury was reported as 44.9 ng/L for week 1 and 70 ng/L for week 27.
16. MDL for molybdenum was reported as 0.0075 mg/L for week 1 and 0.0188 mg/L for week 24.
17. MDL for nickel was reported as 0.0223 mg/L for week 1 and 0.112 mg/L for week 17.
18. MDL for nitrate was reported as 33.2 mg/L for week 10.
19. MDL for potassium was reported as 171 mg/L for weeks 8, 16, 18, and 24.
20. MDL for selenium was reported as 0.0283 mg/L for week 1 and 0.0707 mg/L for week 24.
21. MDL for silver was reported as 0.017 mg/L for week 1 and 0.042 mg/L for week 24.
22. MDL for sodium was reported as 172 mg/L for week 6.
23. MDL for sulfate was reported as 247 mg/L for weeks 1, 7, 9, 10, 12, 17–20, 23, and 26–28.
24. MDL for TDS was reported as 20 mg/L for week 4.
25. MDL for TSS varied between 0.8 and 8 mg/L.
26. MDL for zinc was reported as 0.09 mg/L for week 1.

Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18)

Constituent	Influent Average (Min/Max) (mg/L)	Discharge Average (Min/Max) (mg/L)
Alkalinity	560 (552/569)	373 (312/414)
Aluminum, total	2.7 (1.2/5.2)	2.5 (1.2/5.1)
Arsenic, total	0.43 (0.39/0.48)	0.31 (0.31/0.32)
Barium, total	0.19 (0.18/0.20)	0.16 (0.15/0.18)
Bicarbonate	560 (552/569)	373 (312/414)
Biological oxygen demand	10 (9/11)	9 (7/10)
Boron, total	60.2 (59.3/61.0)	58.0 (57.4/58.6)
Bromide	173 (140/201)	156 (139/170)
Cadmium, total	ND (ND/ND)	ND (ND/ND)
Calcium, dissolved	291 (277/300)	284 (270/293)
Calculated silicon[1]	2.5 (2.3/2.7)	3.1 (2.9/3.4)
Carbonate	ND (ND/ND)	ND (ND/ND)
Chemical oxygen demand (COD)	1,006 (617/1200)	845 (617/1,300)
Chloride	182,333 (177,000/187,000)	173,333 (166,000/181,000)
Chromium, total	0.048 (0.021/0.062)	0.051 (0.030/0.062)
Copper, total	0.039 (0.030/0.052)	0.040 (0.032/0.054)
Cyanide, total	ND (ND/ND)	ND (ND/ND)
Hardness	58,800 (58,100/59,600)	56,833 (55,500/57,900)
Hydroxide	ND (ND/ND)	ND (ND/ND)
Iron, total	ND (ND/ND)	1.72 (1.30/2.40)
Lead, total	ND (ND/ND)	ND (ND/ND)
Lithium, total	67.4 (66.1/69.6)	16.0 (14.4/18.8)
Magnesium, total	14,100 (13,900/14,300)	13,633 (13,300/13,900)
Manganese, total	0.038 (0.030/0.043)	0.163 (0.141/0.182)
Mercury, total	25.3 (23.3/27.2)	28.6 (24.9/31.4)
Molybdenum, total	0.126 (0.122/0.132)	0.081 (0.055/0.122)
Nickel, total	0.052 (0.015/ND)	.0512 (ND/ND)
Nitrate	ND (ND/ND)	ND (ND/ND)
Nitrite	ND (ND/ND)	ND (ND/ND)
Oil and grease	ND (ND/ND)	ND (ND/ND)
Potassium, total	8,423 (8,280/8,600)	8,137 (7,880/8,480)
Selenium, total	0.185 (0.101/0.238)	0.242 (0.121/0.342)
Silica, total	5.4 (5.0/5.8)	6.7 (6.3/7.3)
Silver, total	ND (ND/ND)	ND (ND/ND)
Sodium, dissolved	95,100 (94,200/96,700)	92,500 (90,300/93,600)
Sulfate, dissolved	25,400 (24,300/26,700)	25,167 (25,000/25,300)
Total dissolved solids (TDS)	341,667 (335,000/349,000)	328,667 (326,000/332,000)
Total suspended solids (TSS)	127 (62/228)	112 (64/175)
Zinc, total	ND (ND/ND)	ND (ND/ND)

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. This is a calculated value based on silica data.

3.3 Chemistry Monitoring Results Discussion and Graphs

This section reviews the results Demonstration Plant weekly laboratory analyses and summarizes the monitoring results for metals, salts, manganese, and lithium. The metal constituents reviewed are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc, and the salts constituents reviewed are calcium, chloride, magnesium, potassium, sodium, and sulfate. Metals and salts, as well as other constituents (manganese and lithium), are required to be analyzed and reported by the UPDES permit and GSL Mineral Extraction Facility Operator Certification rules.

Data results for all constituents are summarized in Table 3 above, and laboratory results spreadsheets are attached in Appendix B, *Laboratory Data Results*.

To evaluate whether changes in metals, salts, and minerals (manganese and lithium) discharge concentrations (as compared to intake concentrations) result in a change in chemistry in the North Arm of the GSL. Waterleaf uses various lines of evidence, which consist of the following,

- MDLs and uncertainty of data
- Lack of comparable historic North Arm chemistry data and numeric water quality standards
- Relative increase or decrease in average concentrations (Table 3 above) as compared to MDLs and uncertainty
- Relative increase or decrease in average concentrations during the performance run (Table 4 above)
- Outlier analysis (Table 5 below)
- Relative increase or decrease in normal operations average concentrations (removing the first 5 weeks of start-up operations; see Table 6 below)
- Total change in mass loadings (discharge load subtracted from influent load) based on average concentrations, as compared to North Arm mass, at current water surface elevations (WSE) (Table 7, Table 8, and Table 9 below)
- Biota study results

3.3.1 Minimum Detection Limits and Uncertainty

Chemical analyses on the GSL brine samples and specifically North Arm brine samples are difficult to perform because of the high density, high salinity, and other unique characteristics of GSL brine. These characteristics interfere with laboratory means and methods. Due to these interferences, data results can often have various MDLs, various dilution rates, and large spike recovery ranges, all of which create a level of error and uncertainty. Although this error and uncertainty exists, the individual laboratory test results met data quality criteria and equipment precision ranges.

Overall, the MDLs for the analyzed constituents were consistent and met UPDES requirements. The laboratory data quality packages reported a few cases in which the MDL for selenium was not met. Level IV laboratory data quality results also documented dilution rates and spike recovery rates to meet quality control and assurance requirements.

Waterleaf also uses context when reviewing the data. Some constituents were analyzed at MDLs that were less than designated by the UPDES, as shown in Table 3 above. For example, copper was analyzed with an MDL of 0.0182 mg/L, which is below the UPDES stated MDL of 0.067 mg/L. So, when the influent and discharge average values are calculated at 0.0391 mg/L and 0.0470mg/L, respectively, they are below the UPDES stated MDL and might be considered comparable. Very low MDLs can bias the review of the data by detecting increases and decreases in concentration that are insignificant compared to other data sets.

Error and uncertainty (lab interference) need to be considered when reviewing the data. The heavy brine requires that samples are diluted to effectively be analyzed by equipment that is normally processing fresh water samples. The dilution rates for analyses ranged from undiluted (rate of 1)to 6, 20, and 50 up to a high of 100. Also, all samples were analyzed independently, so the intake and discharge samples for the same day might be diluted differently. Laboratory method accuracy is measured by percent recovery, and these percent recoveries vary for the different methods used for this project. For example, salts generally have a ±20% recovery, while metals have a ±15% recovery. The Utah Geological Survey has estimated that, for most GSL data, a minimum error of about 10% could be attributed to the challenges of processing the brine, based on conversations with the analytical laboratory (UGS 2025).

Waterleaf did report all data to UDWQ consistent with UPDES compliance monitoring requirements. That being said, the laboratory chemical analyses and results provided are adequate to meet the data quality objectives of the monitoring, which are to characterize the chemistry of the North Arm raw brine that is used as influent water to the lithium extraction process and to characterize the discharge of the lithium-depleted brine back to the North Arm.

3.3.2 Outlier Analyses

As with any data set, results often include concentrations that are unusually high or low—or in other words, outside the normal or expected range. To evaluate the impact of outliers on the Demonstration Plant data set, an outlier analysis was performed to identify whether outliers occurred extensively throughout the data set. Waterleaf determined that they did not. Therefore, Waterleaf included all data in the calculation of average, minimum, and maximum. Below is a summary of the outlier analyses and the results.

An IQR outlier analysis was conducted on the laboratory data results for each constituent's influent and discharge data. This analysis requires calculating the upper-quartile boundaries and then comparing the data to this threshold. Data points above this threshold are considered outliers.

In all, of the 1,900 data points analyzed for 38 constituents, 18 constituents were determined to have 59 data exceedances; that is, 59 data points were above the upper-quartile boundary. Of these 59 data points, 34 were influent outlier points and 25 were discharge outlier points. The results of the outlier analyses for those constituents with data exceedances are shown in Table 5 below.

Of note, outlier analyses were not conducted on the 10 constituents with nondetected concentrations. Also, the lower-quartile boundary analyses were not completed due to the presence of nondetection concentrations.

This analysis provides further evidence that the significant variations in data results are limited—using the IQR analytical methodology, about 3.1% of the data reported are considered outliers (outside the upper-quartile boundary).

Based on the IQR outlier analyses for all constituents analyzed, Waterleaf determined that the outliers did not occur extensively. Therefore, all data are included in the calculation of average, minimum, and maximum concentrations.

Table 5. Summary of Outlier Analyses

Constituent	Influent Outliers			Discharge Outliers		
	Influent Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances	Discharge Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances
Aluminum, total	1.7	3.0	1	1.6	2.5	2
Barium, total	0.190	0.238	3	0.169	0.248	2
Bromide	0.173	200.5	1	160.1	192.5	0
COD	2,420	4,450	4	1,1617	4,650	0
Chromium, total	0.072	0.196	2	0.069	0.176	2
Copper, total	0.0391	0.0661	2	0.0470	0.0753	2
Hardness	59,692	64,100	2	56,256	65,200	0
Iron, total	0.58	0.57	1	1.57	2.4	2
Lead, total	0.0104	0.0087	0	0.0107	0.0087	1
Lithium, total	67.7	73.0	2	30.6	91.7	0
Magnesium, total	14,312	15,400	2	13,480	15,600	0
Manganese, total	0.0411	0.0550	2	0.239	0.511	1
Mercury, total	33.2	33.7	2	39.9	52.8	3
Molybdenum, total	0.136	0.163	1	0.111	0.178	4
Nickel, total	0.049	0.091	4	0.052	0.087	3
Potassium, total	8,662.4	9,535	1	8,138	9,455	0
Sodium, dissolved	92,920	108,100	1	86,568	114,300	0
TSS	110.9	278.5	3	105.6	264.0	3

Definitions: COD = chemical oxygen demand; mg/L = milligrams per liter; TSS = total suspended solids

3.3.3 Metals Discussion

In this section, Waterleaf reviews the laboratory data results for metal constituents. Metals are often the focus of review due to their potential toxicity and their regulation by the Clean Water Act. Metal MDLs and loads were specific components of the UPDES permit. As stated in Section 1.2, *Background*, the North Arm is protected for recreation and wildlife use; however, numeric water quality standards have not been established.

The metal constituents discussed below are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc.

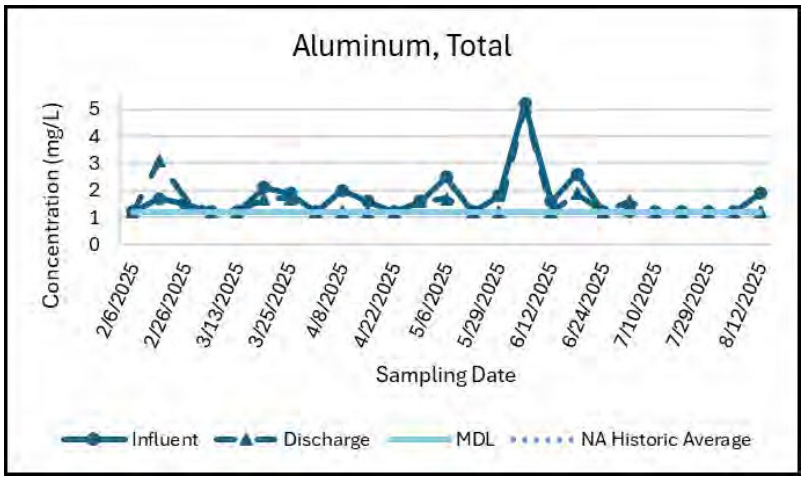
Metals That Were Not Detected. The data results reported four metal constituents (cadmium, lead, silver, and zinc) as nondetected for both influent and discharge concentrations for the entire 28-week operation of the Demonstration Plant, including the start-up and performance run periods (Table 3 above).

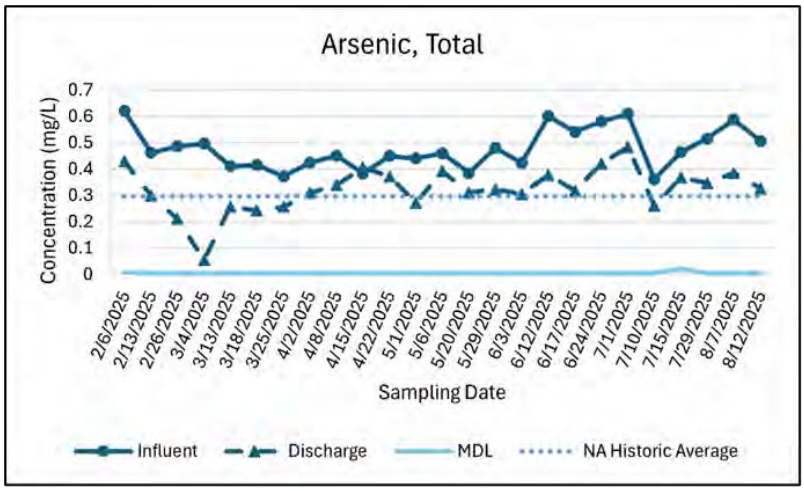
Metals with Lower Discharge Concentrations. Seven metal constituents (aluminum, arsenic, barium, boron, chromium, molybdenum, and selenium) were reported with lower average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 1 for these seven constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023). For some constituents, historical data were not available.

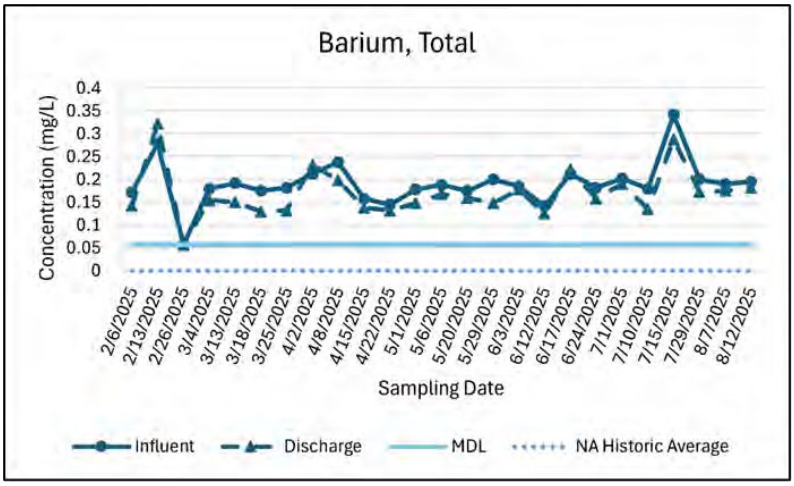
The data for the entire 28-week operation indicate the following decreases in average discharge concentrations compared to average influent concentrations: aluminum (decrease of 7%), arsenic (decrease of 32%), barium (decrease of 11%), boron (decrease of 6%), chromium (decrease of 4%), molybdenum (decrease of 18%), and selenium (decrease of 2%).

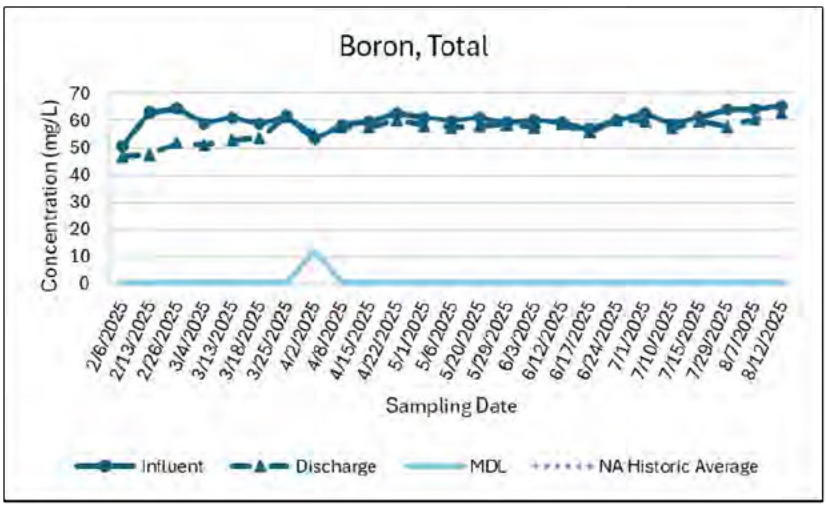
These constituents also showed average decreased concentrations compared to intake concentrations during the performance run (weeks 16–18) (Table 4 above), with the exception of chromium and selenium, for which average discharge concentrations increased above average intake concentrations. If the uncertainty estimate of 10% is taken into perspective, the decreases for aluminum, boron, chromium, and selenium are within this error range.

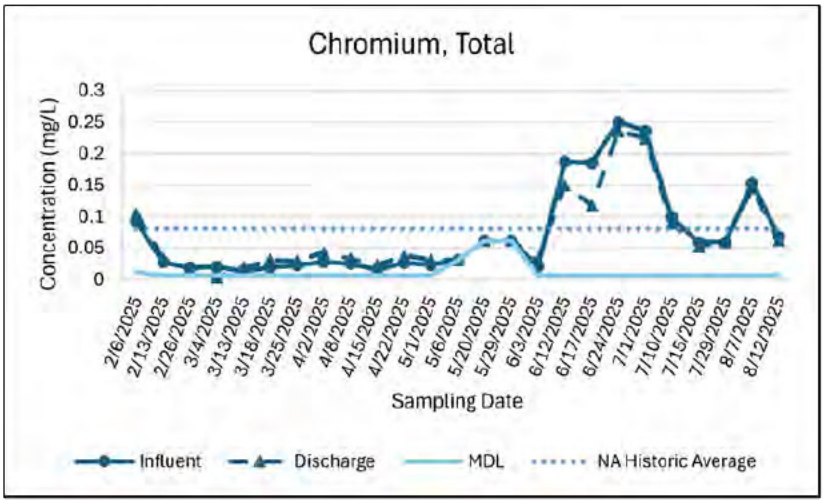
Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations

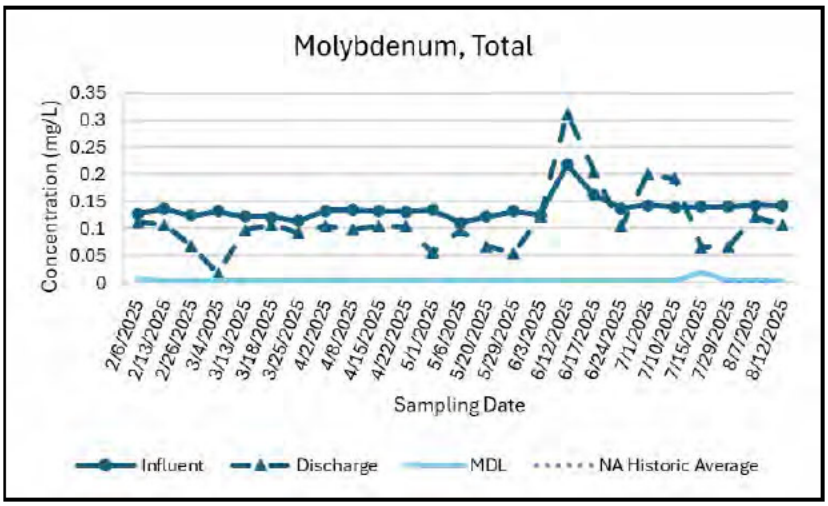


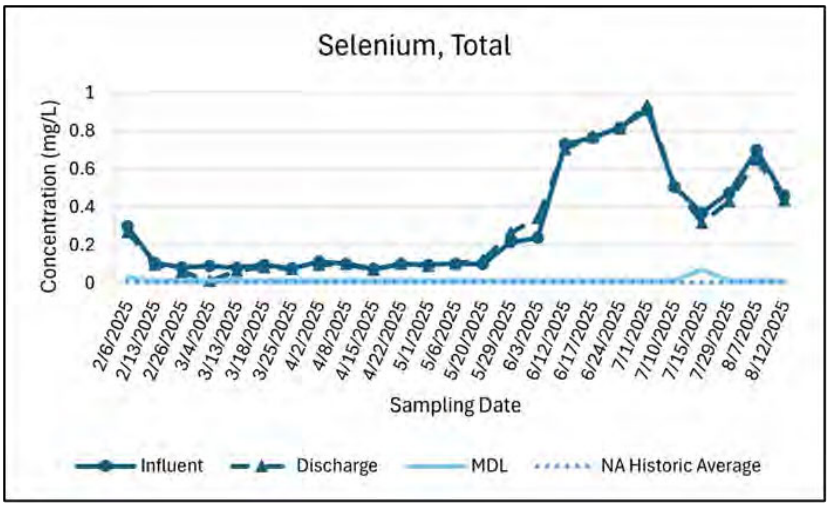





Boron, Total
Concentration (mg/L)
70
60
50
40
30
20
10
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Chromium, Total
Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

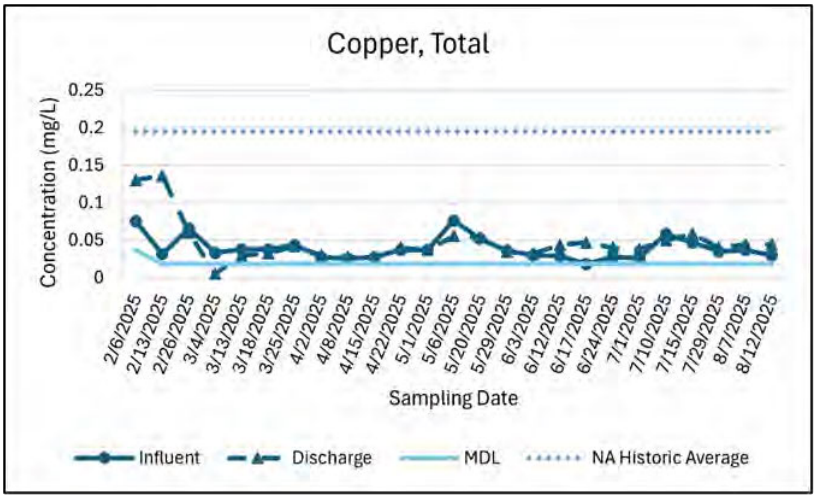

Molybdenum, Total
Concentration (mg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

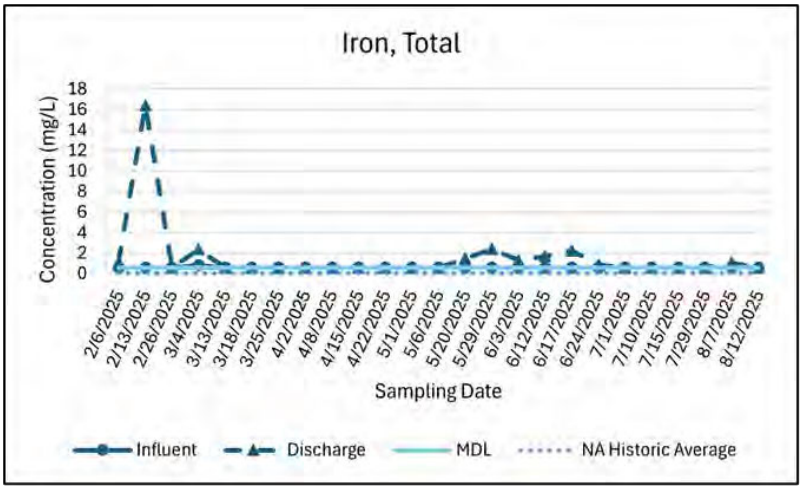


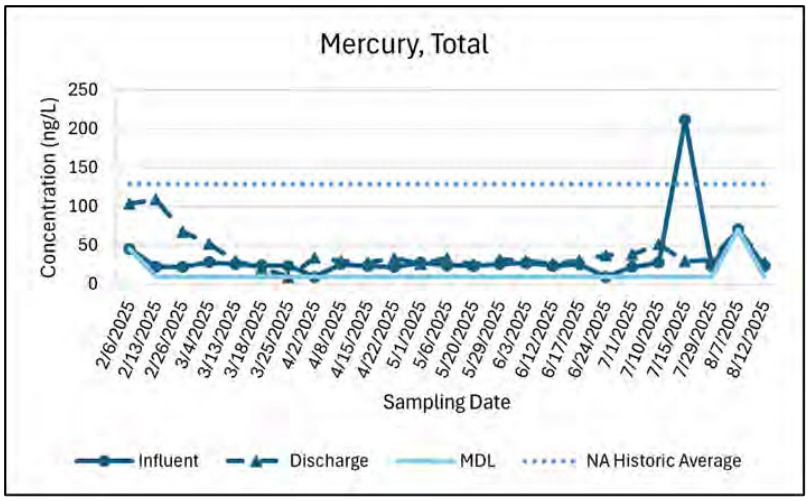
Metals with Higher Discharge Concentrations. Four metal constituents (copper, iron, mercury, and nickel) were reported with higher average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 2 for these four constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023).

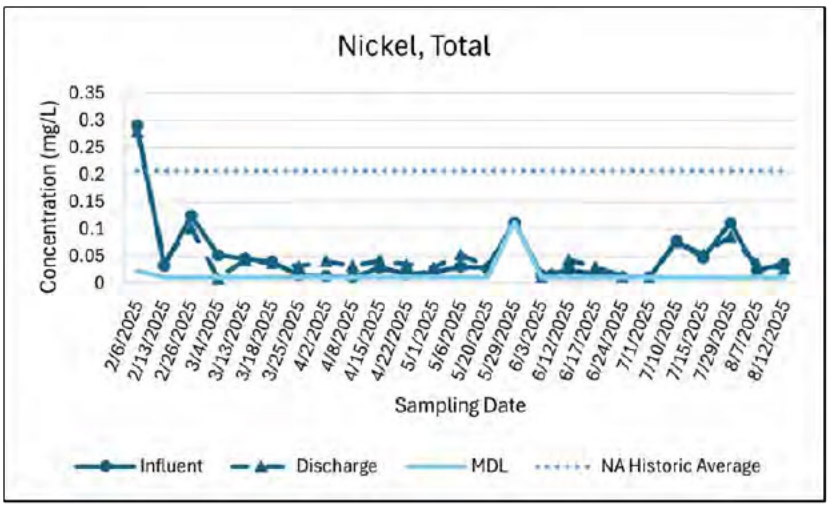
The increases in average discharge concentrations compared to the average influent concentrations are: copper (increase of 20%), iron (increase of 272%), mercury (increase of 20%), and nickel (increase of 6%). Based on a review of the graphs and the data, it is apparent that, during the Demonstration Plant's start-up period, discharge concentrations for these metals were higher than during the following weeks. Waterleaf conducted further review of the data and operations during this start-up period to determine the cause of the data spikes. Waterleaf determined that, during start-up operations (weeks 1–5), processes and equipment were the cause of the data spikes for certain metal constituents, because these four constituents are not a component of the DLE process.

Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations









The increases in discharge concentrations (compared to influent concentrations) for copper, iron, mercury, and nickel during the start-up period can be partially attributed to the Demonstration Plant's equipment being made from carbon steel, stainless steel, and other corrodible materials. Equipment becomes corroded from exposure to the high-saline North Arm brine and exposure to oxygen. Evidence of corrosion consisted of higher concentrations of four metals (copper and iron, plus mercury and nickel) during the first 5 weeks, which was the Demonstration Plant's start-up period of operation, as well as visual observations of rust flakes in the discharge. During investigations to identify the source of the rust flakes in the discharge, observations were made confirming that the carbon steel frac tanks being used to store raw brine and depleted brine were in fact showing signs of corrosion.

After the initial start-up period of 5 weeks, rust flakes were not observed, and the discharge concentrations became more consistent. Table 6 compares the average influent and discharge results for the start-up period (weeks 1–5) and regular operations (weeks 6–28). As the data indicate, average discharge concentrations drastically reduced after the initial plant start-up process. After start-up, mercury and nickel average discharge concentrations decreased compared to average influent concentrations. Copper and iron results reported an increase in average discharge concentrations compared to average influent concentrations.

Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations

Constituent	Start-up (Weeks 1–5)		Operation (Weeks 6–28)	
	Influent Average (mg/L)	Discharge Average (mg/L)	Influent Average (mg/L)	Discharge Average (mg/L)
Copper, total	0.0513	0.0829	0.0368	0.0401
Iron, total	0.628	5.10	ND (<0.57)	0.902
Mercury, total	29.2 ng/L	82.8 ng/L	34.0 ng/L	31.7 ng/L
Nickel, total	0.124	0.108	0.0348	0.0412

Definitions: mg/L = milligrams per liter; ND = nondetect; ng/L = nanograms per liter

These four constituents, along with chromium and selenium, had increased discharge concentrations compared to influent concentrations during the performance run period.

Waterleaf noticed that iron discharge concentrations increased during a 6-week period during regular operations and conducted further analyses. Most of the iron intake and discharge concentration results were reported nondetect, except during start-up operations and during a 6-week period (weeks 16–22). The increased discharge concentrations during start-up were discussed above. The increased discharge concentrations for weeks 16–22 followed a period of no discharge (week 15). During week 15, the plant experienced equipment failures and did not operate. When the plant was brought back online with replacement equipment operating, increases in iron discharges occurred until the process recovered (week 22). Iron discharge concentrations were reported nondetect during the remainder of operation (weeks 22–28).

Metal Load Analyses. To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the metal constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks), including outliers, compared to North Arm mass. Demonstration Plant loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The resulting mass load due to Demonstration Plant operation is shown in Table 7.

Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Aluminum, total	1.7	15.49	1.6	15.13	−0.36	14,978,200
Arsenic, total	0.477	4.35	0.322	3.04	−1.3	4,202,700
Barium, total	0.190	1.73	0.169	1.60	−0.13	1,674,000
Boron, total	60.3	549.3	56.7	536.1	−13.2	531,286,700
Chromium, total	0.072	0.66	0.069	0.65	−0.01	634,400
Copper, total	0.0391	0.36	0.0470	0.44	0.09	344,500
Iron, total	0.58	5.28	1.57	14.84	9.56	5,110,200
Mercury, total	0.0000332	1.65	0.0000399	2.0	0.35	290
Molybdenum, total	0.136	1.24	0.111	1.05	−0.19	1,198,300
Nickel, total	0.049	0.45	0.052	0.49	0.04	431,700
Selenium, total	0.308	2.81	0.301	2.85	0.04	2,713,700

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af and average influent concentrations

In considering the mass decreases in the North Arm for aluminum, arsenic, barium, boron, chromium, and molybdenum discharges (Table 7 above), mass decreases due to

Demonstration Plant operations are in the range of 0.000002% to 0.00003% compared to North Arm total mass and are considered by Waterleaf to be *de minimis*.

In considering the mass load increases to the North Arm from the Demonstration Plant (Table 7 above), increases for copper (0.00002%), nickel (0.000009%) and selenium (0.0000015%) are considered by Waterleaf to be *de minimis*. The mass increase of iron to the North Arm is estimated at 9.6 pounds (lb), compared to 5.11 million pounds, or an increase of 0.0002%, which is also considered by Waterleaf to be *de minimis*.

The mercury data indicate that the mass load to the North Arm resulted in a 0.35-lb increase, compared to a North Arm mass of 290 lb, or an increase of 0.12%, which is considered by Waterleaf to be not significant. The bulk of this mass load occurred during the start-up period (Figure 2 and Table 6 above). Although mercury concentrations in the discharge during start-up operations were higher than in the influent, subsequently, during the remainder of the Demonstration Plant's operation, average discharge concentrations were less than average influent concentrations.

A review of the start-up comparison (Table 6 above) and investigation into the source of the corrosion revealed conditions specific to the Demonstration Plant's equipment. Comparing the data collected during remainder of the operations and performance run data run (Table 4 above), the temporary discharge of mercury mass load to the North Arm, due to start-up operations, is considered by Waterleaf to be not significant.

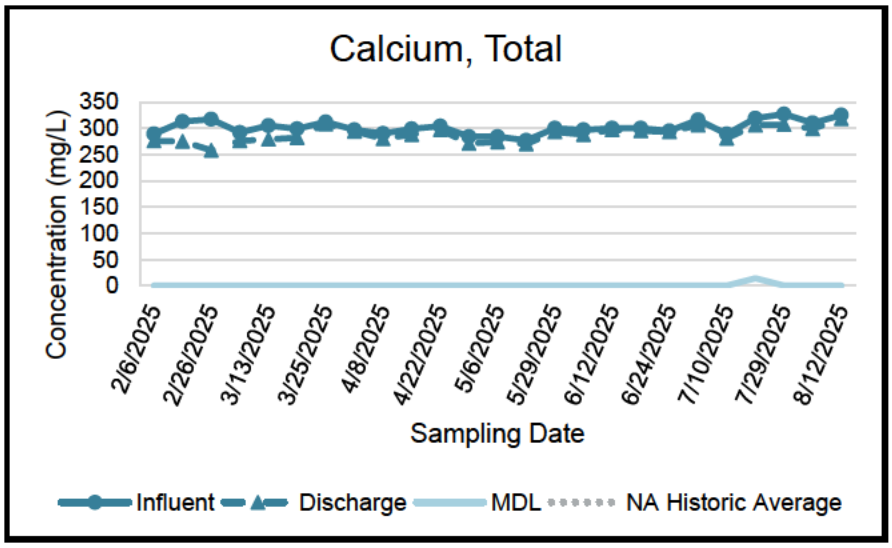
3.3.4 Salts Discussion

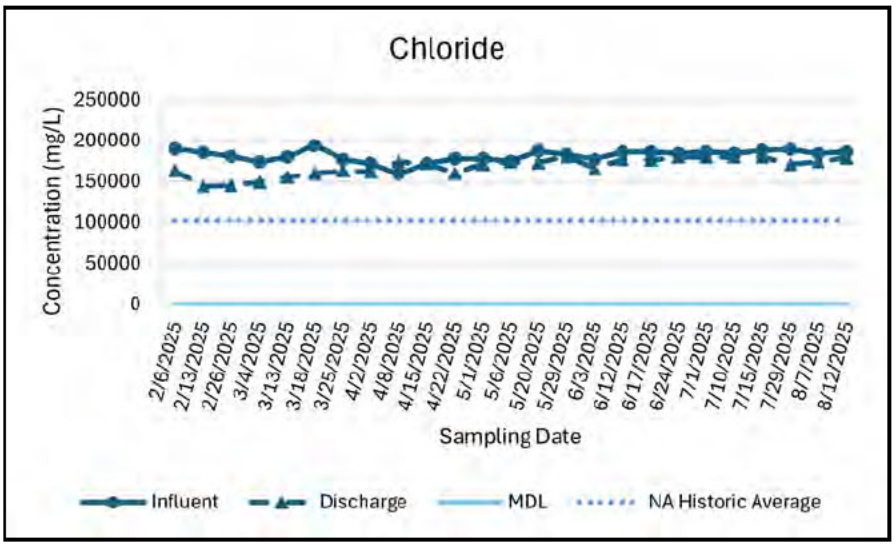
In this section, Waterleaf reviews the laboratory data results for salt constituents. GSL salts are important because they support the mineral extraction industry.

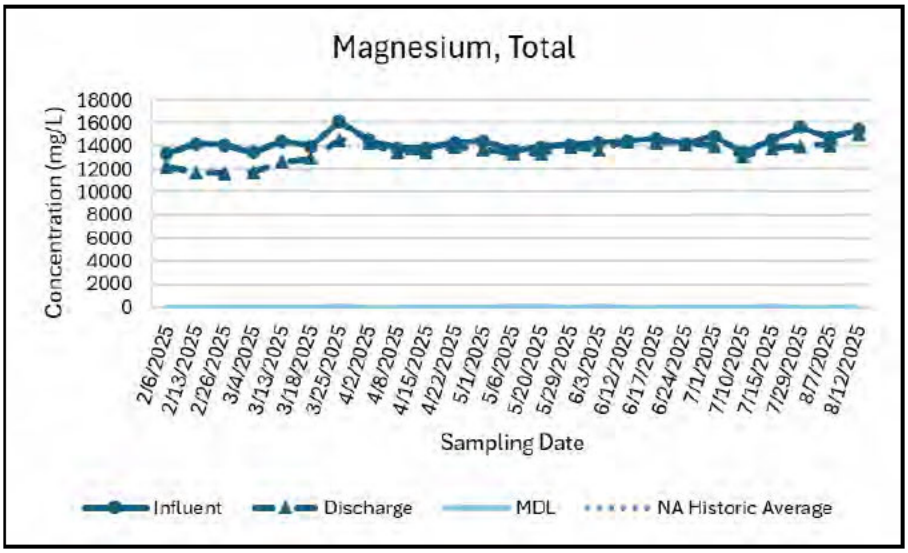
All salt cations and anions were reported with lower discharge concentrations than influent concentrations. These salt constituents are calcium, chloride, magnesium, potassium, sodium, and sulfate. The monitoring data for these constituents are graphed in Figure 3 below. Salt constituents' average discharge concentrations decreased in the range of 4.6% to 7.5% compared to average influent concentrations. This range is comparable to the average discharge concentration decrease in TDS of 8% compared to the average influent concentration.

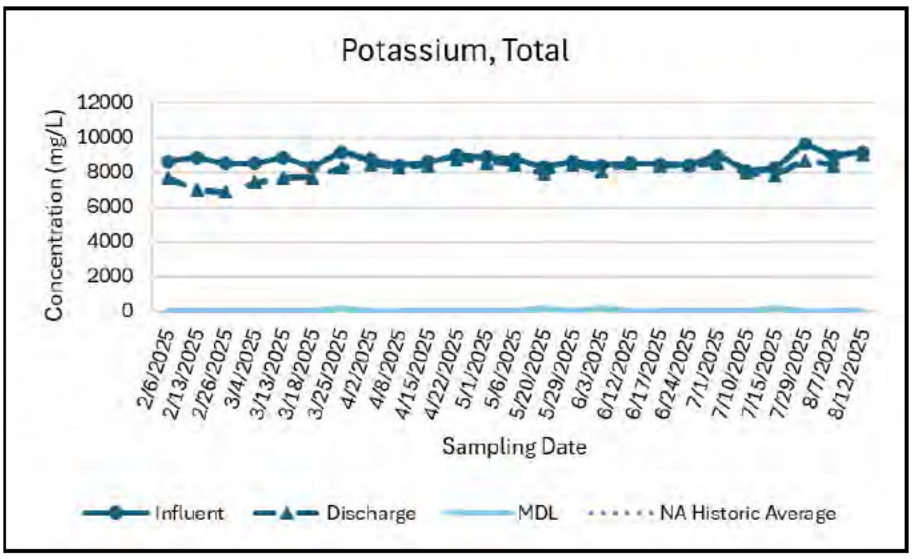
To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the salt constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the salt constituents mass in the North Arm. The mass load comparison is shown in Table 8 below.

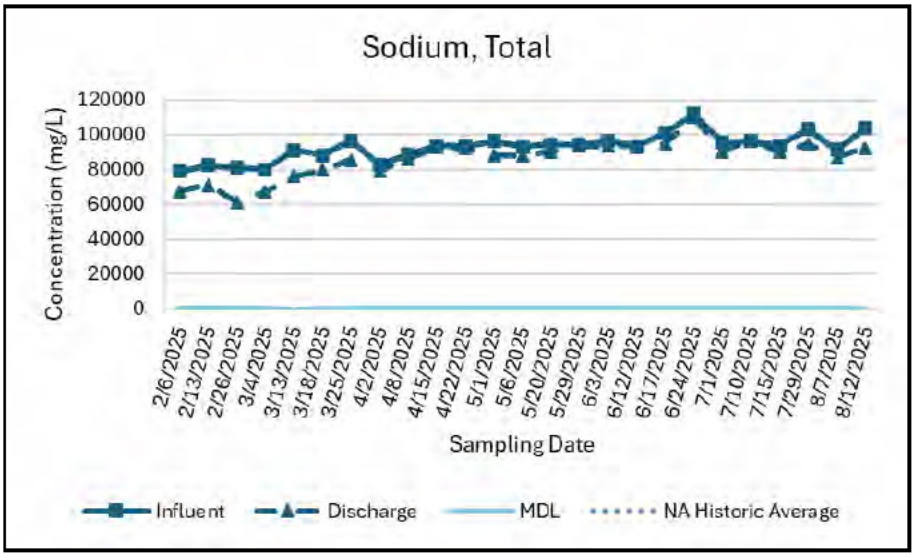
Figure 3. Graphs of Salt Constituents








Potassium, Total
Concentration (mg/L)
12000
10000
8000
6000
4000
2000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Sodium, Total
Concentration (mg/L)
120000
100000
80000
60000
40000
20000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

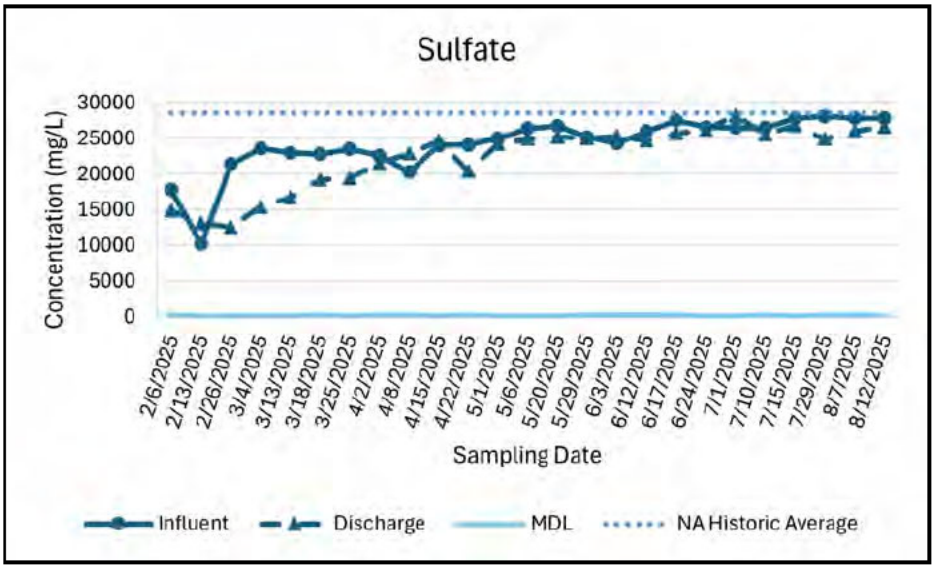

Sulfate
Concentration (mg/L)
30000
25000
20000
15000
10000
5000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Calcium	302	2,750	288	2,720	−30	2,657,315,000
Chloride	181,400	1,652,500	168,400	1,591,900	−60,600	1,598,265,596,000
Magnesium	14,312	130,400	13,480	127,500	-2,900	126,099,103,000
Potassium	8,662	78,900	8,138	76,900	-2,000	76,322,028,000
Sodium	92.920	846,500	86,568	818,500	-28,000	818,692,609,000
Sulfate	24,220	220,600	22,400	211,800	-8,800	213,395,770,000

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

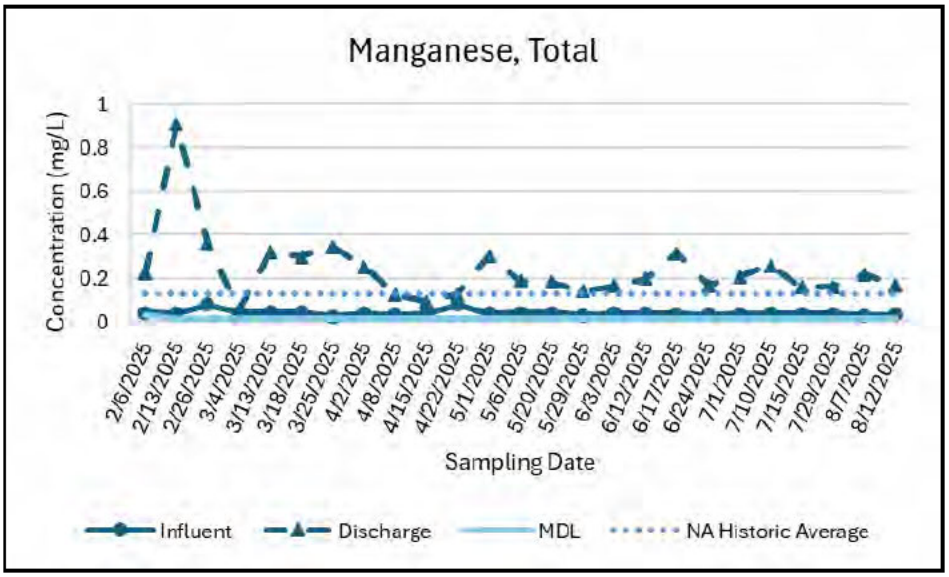
1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

In assessing the mass decreases in the North Arm for salt constituents due to the Demonstration Plant's operation, mass decreases are considered by Waterleaf to be *de minimis*.

3.3.5 Manganese

Manganese is identified as a component of the DLE process and is discharged from the Demonstration Plant. This is the only constituent that resulted in higher concentrations in the discharge compared to the influent concentrations because of the DLE process. Figure 4 below shows the results of the weekly influent and discharge compliance sampling for manganese.

Figure 4. Graph of Manganese Influent and Discharge Data



Average discharge concentrations are reported higher than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods.

To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the increase of the North Arm manganese mass was reviewed. Demonstration Plant manganese mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant added about 1.88 lb of manganese to the mass in the North Arm, or, in other words, the mass of the North Arm increased by about 0.00052%. This increase in North Arm manganese mass due to the operation of the Demonstration Plant is considered by Waterleaf to be *de minimis*. The mass load comparison for manganese is shown in Table 9.

Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Manganese	0.0411	0.37	0.2385	2.26	1.88	362,100

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

Waterleaf conducted additional data review related to the discharge of manganese. There are no federal or state water quality standards for manganese levels for

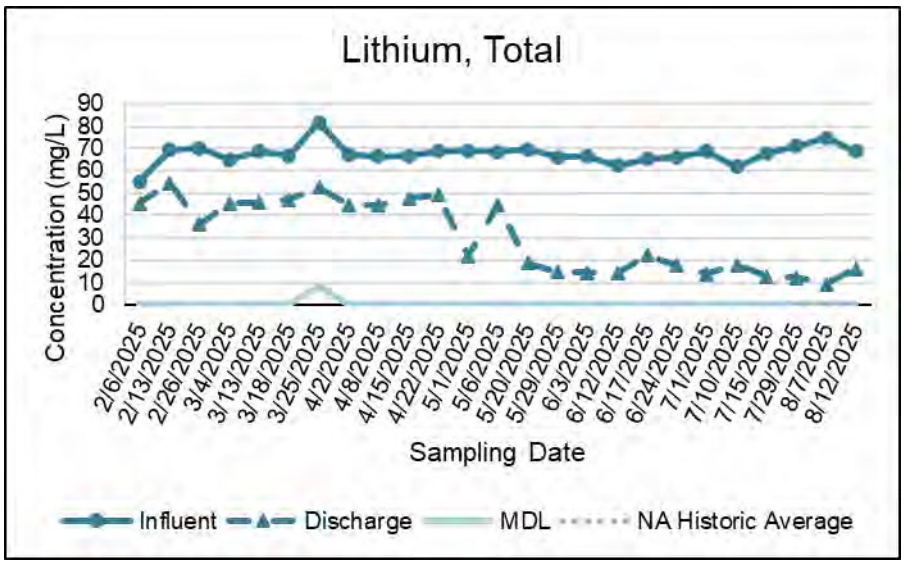
recreational exposures. Manganese is a mineral that exists naturally in the GSL and other freshwater bodies. Federal guidelines are published for dermal exposure to manganese during showering with tap water (drinking water) (HDR 2025). Waterleaf asserts that the manganese in the North Arm and in the depleted brine discharge is in solution and will not precipitate. This review determined that the increase in manganese discharged to the GSL due to the Demonstration Plant was not significant compared to existing standards and guidelines, existing North Arm loads, and protection of existing beneficial uses.

3.3.6 Lithium

Lithium is the targeted mineral for extraction by the Demonstration Plant. As a result, average discharge concentrations are less than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods. The extraction of lithium from the GSL is overseen by UDFFSL, and royalties are paid by Waterleaf in accordance with GSL mineral extraction facility rules.

Figure 5 shows the results of the weekly influent and discharge compliance sampling for lithium.

Figure 5. Graph of Lithium Influent and Discharge Data



To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the decrease of the North Arm lithium mass was reviewed. Demonstration Plant lithium mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the North Arm lithium mass by about 326 lb, or, in other words, the mass of the North Arm decreased by about 0.000055%. This decrease in North Arm lithium mass due to the operation of the Demonstration Plant is

considered by Waterleaf to be *de minimis*. The mass load comparison for lithium is shown in Table 10.

Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Lithium	67.7	617	30.8	291	-326	594,724,000

Definitions: af = acre=feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

3.4 Field Chemistry Results

As identified in Table 1 above, field measurements were taken during the compliance monitoring events for influent and discharge flows. These field measurements are density, dissolved oxygen, pH, and temperature.

Table 11 summarizes the field measurements. Parameter-specific discussions follow the table.

Table 11. Summary of Field Measurements

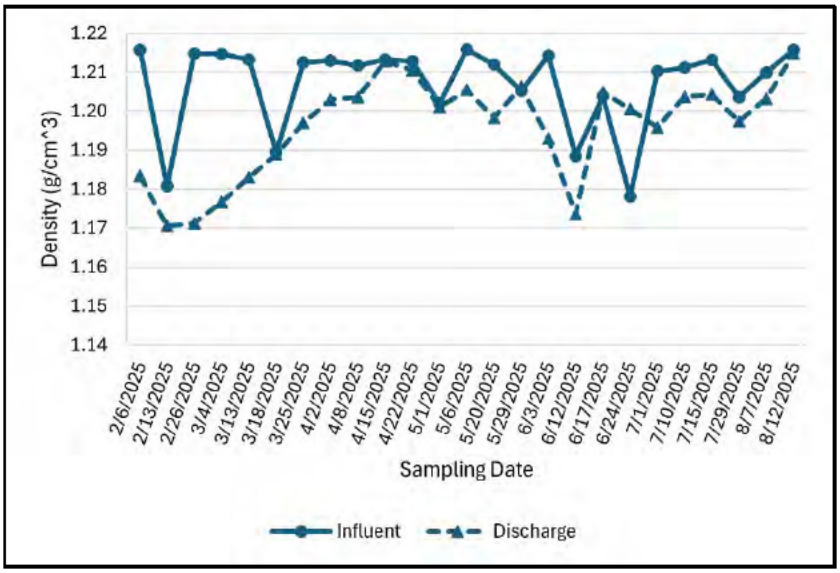
Field Parameter	Influent Average	Discharge Average	UPDES Limit
Density, g/cm^3	1.21	1.20	NA
Dissolved oxygen, mg/L	7.12	6.44	NA
pH	7.52	7.40	6.5–9
Temperature, °C	NA	NA	NA

Definitions: °C = degrees Celsius; g/cm^3 = grams per cubic centimeter; mg/L = milligrams per liter; NA = not applicable; UPDES = Utah Pollutant Discharge Elimination System

3.4.1 Density

Influent density was relatively consistent, ranging between 1.21 and 1.22 grams per cubic centimeter (g/cm^3). The influent density dipped on several occasions, and these dips were reasoned to be due to environmental conditions, specifically recent rainfall and the shallowness of the intake infrastructure (Figure 6 below).

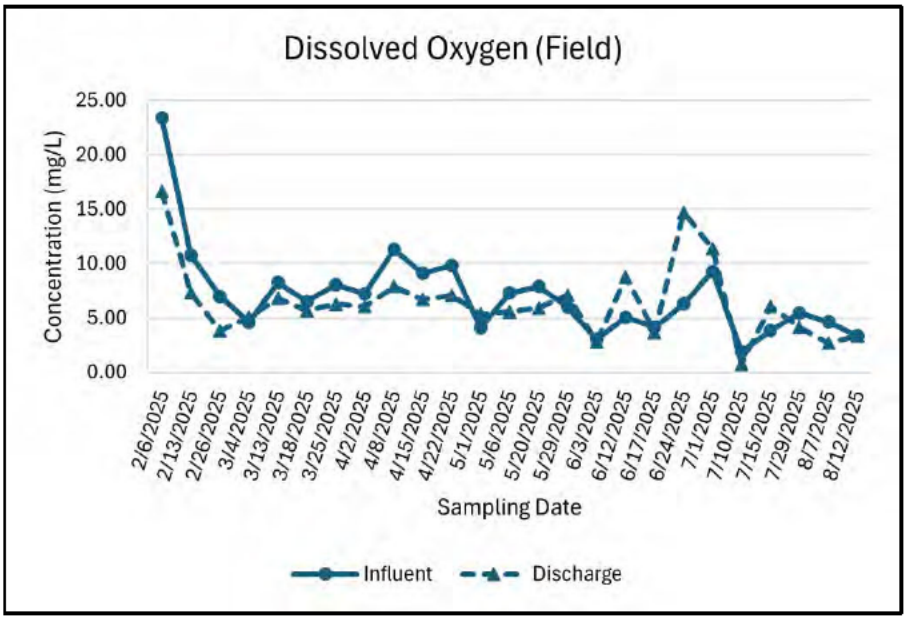
Figure 6. Density Graph



3.4.2 Dissolved Oxygen

Generally, the discharge dissolved oxygen (DO) measurements were less than the influent DO measurements. At the start of the Demonstration Plant's operation, more groundwater than North Arm brine was processed, resulting in higher DO levels (Figure 7).

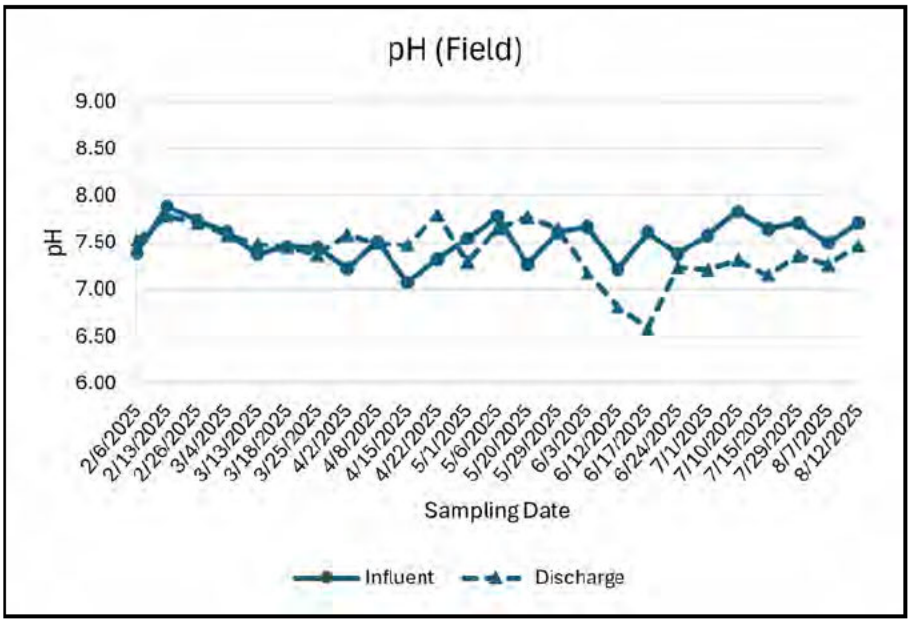
Figure 7. Dissolved Oxygen Graph



3.4.3 pH

Field measurements of pH for both the influent and discharge flows met the UPDES permit limit range of 6.5–9 (Figure 8).

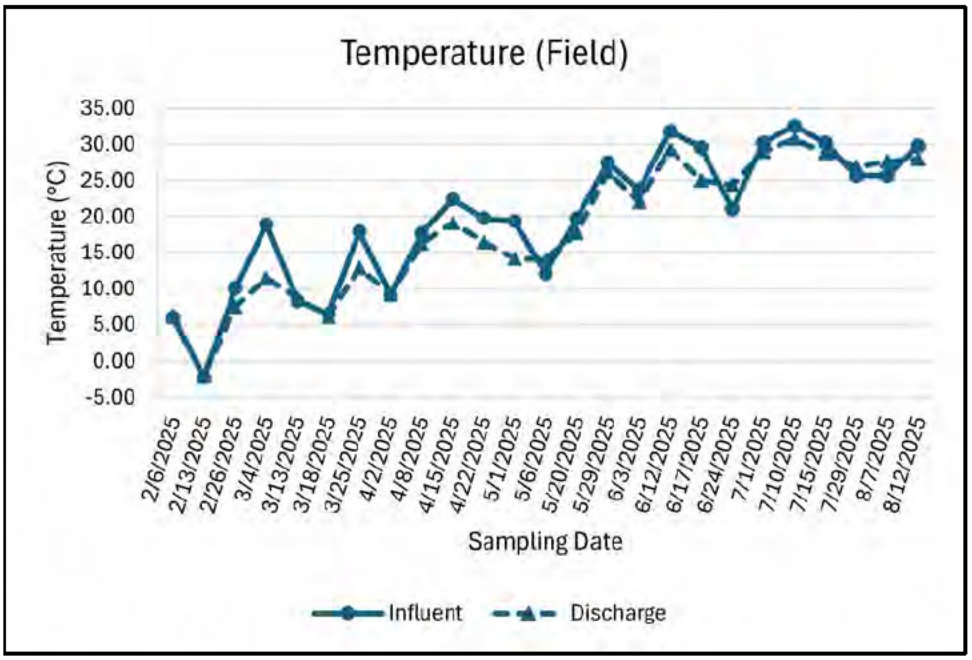
Figure 8. pH Graph



3.4.4 Temperature

Influent and discharge flow temperature measurements rose over the operation of the Demonstration Plant, following the expected seasonal warming of North Arm brine between February and August (Figure 9).

Figure 9. Temperature Graph



3.4.5 Influent and Discharge Water Salinity

HDR collected and reported the density at the intake and outfall locations during the Demonstration Plant's operation. These measurements were taken using an Anton Paar density meter. Per UDWQ rules, the Demonstration Plant cannot negatively alter the salinity of the North Arm of the GSL (UAC R317-16-2(16)(a)).

The GSL's salinity values were calculated using the formula below and documented in Open-File Report 0728, *Standard Operating Procedure – Great Salt Lake Water Density Measurement and Salinity Calculation* (UGS 2020).

$$S=\frac{\left(\left(\sqrt{\left(\left((1.04708-(0.00112*T))^{2}\right)-\left(4*0.000314721*(-(\rho*1000)+(\rho^{0}*1000)+(0.00199*T^{2})-(1.21061*T)+184.01602)\right)\right)}\right)+\left(-(1.104708-(0.00112*T))\right)\right)}{(2*0.000314721)}$$

ρ = density of GSL water (g/cm^3)
ρ^0 = density of pure water (g/cm^3)
S = salinity (g/L)
T = water temperature (°K)

However, as described in Open-File Report 0728, this salinity calculation is specific to typical South Arm densities, or salinity values up to about 18%. For salinity values above 18%, the result "shall be noted as outside the salinity range used to develop the GSL Equation of State" (UGS 2020). In 2023, the U.S. Geological Survey (USGS) published a data release that increased the upper boundary of the GSL salinity equation to 1.214.

Because the North Arm densities exceed this upper boundary, the equation is not validated to calculate North Arm salinity values (USGS 2023). Therefore, the salinity values were not calculated for this report, and Waterleaf compared density values as a surrogate value for salinity. This analysis is provided to support the determination that the Demonstration Project did not negatively alter the salinity (density) of the GSL.

Density profile data are shown in Figure 6 above for the influent and discharge flows for each monitoring event. Table 12 on the following page shows the influent and discharge density values as measured. Waterleaf asserts that the discharge from the Demonstration Plant did not affect the overall density of the North Arm. This is based on (1) the density measurements made and (2) a comparison of the total volume of discharge (3.48 acre-feet [af]) to the total volume of the North Arm of about 3.25 million acre-feet (maf), at an average WSE of 4,192 feet mean sea level during the Demonstration Plant's operation (USGS 2006), as shown in Figure 10 below.

Figure 10. North Arm Volume

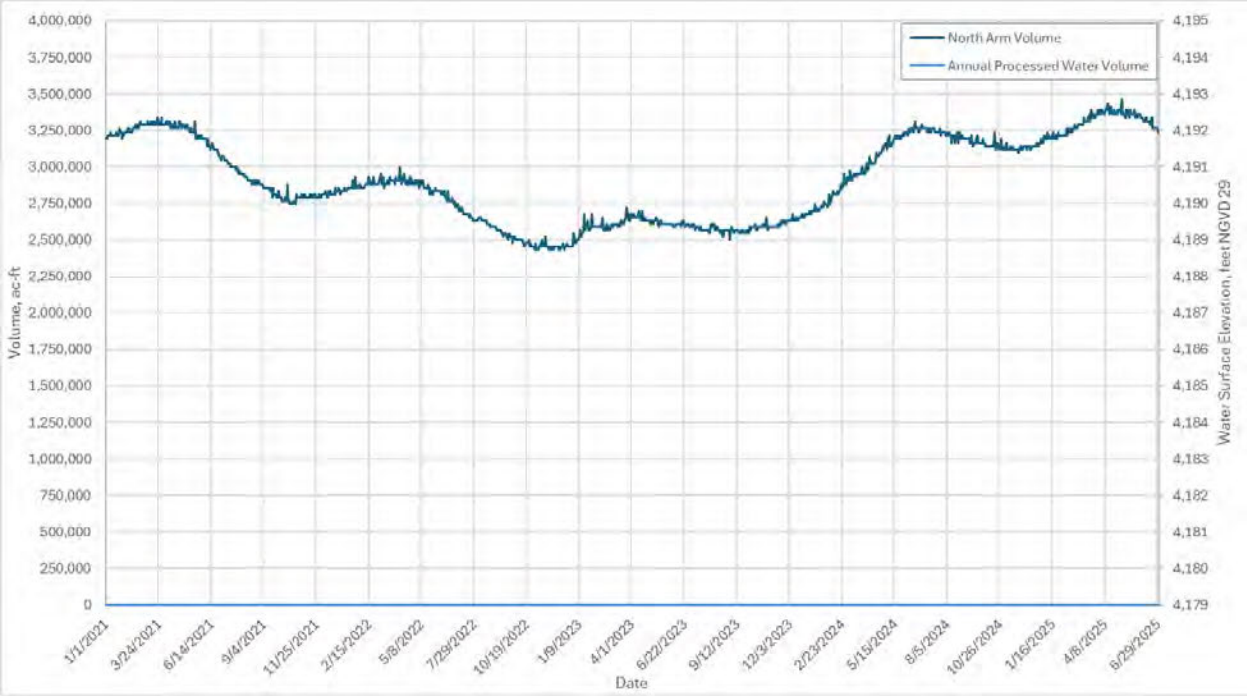


Table 12. Influent and Discharge Density Results

Date	Influent Density	Discharge Density
2/6/25	1.216	1.183
2/13/25	1.181	1.171
2/20/25	No discharge	
2/26/25	1.215	1.171
3/4/25	1.215	1.177
3/13/25	1.213	1.183
3/18/25	1.190	1.189
3/25/25	1.213	1.197
4/2/25	1.213	1.203
4/8/25	1.212	1.204
4/15/25	1.213	1.213
4/22/25	1.213	1.210
5/1/25	1.202	1.201
5/6/25	1.213	1.205
5/12/25	No discharge	
5/20/25	1.212	1.198
5/29/25	1.205	1.206
6/03/25	1.214	1.193
6/12/25	1.188	1.174
6/17/25	1.204	1.205
6/24/25	1.178	1.201
7/1/25	1.210	1.196
7/10/25	1.211	1.204
7/15/25	1.213	1.204
7/22/25	No discharge	
7/29/25	1.204	1.197
8/7/25	1.210	1.203
8/12/25	1.216	1.215

4 Flow Monitoring Results

In accordance with the UPDES permit requirements, continuous influent and discharge flow monitoring results were used to determine average weekly and monthly maximum and average flows. These data were used to calculate average weekly and annual loads. These flow values were used to calculate monthly volumes for the influent and discharge.

Instantaneous flow monitoring results are documented on weekly field data sheets and were used to determine flow-weighted composite sampling.

In addition, groundwater added to the process was recorded.

4.1 Monthly Volume Results

Continuous flow monitoring during the Demonstration Plant's operation recorded a final influent volume of 3.35 af and a final discharge volume of 3.48 af. Monthly average flows and volumes are shown in Table 13.

Table 13. Demonstration Plant Influent and Discharge Flow Volume

Month	Total Volume (af)	
	Influent	Discharge
February 2025	0.306	0.238
March 2025	0.201	0.237
April 2025	0.662	0.694
May 2025	0.427	0.431
June 2025	0.644	0.627
July 2025	0.730	0.781
August 2025	0.385	0.470
Total	**3.355**	**3.477**

Definitions: af = acre-feet

4.2 Total Water Balance

Total water is defined as sum of the brine and externally sourced water (UAC R317-16-2(21)). The Demonstration Plant's total water balance is provided below based on data from the intake and outfall continuous flow meters. The discharge volume includes the flow from the externally sourced groundwater.

- North Arm brine influent volume: 3.355 af
- Externally sourced groundwater: 0.265 af
- Discharge volume to North Arm: 3.477 af

The water balance shows that about 4% of the brine and groundwater flow is not discharged. This residual water was retained in the lithium sulfate product, which is a liquid. The lithium sulfate was shipped off site for further processing into the lithium carbonate equivalent product, which is a powder.

Based on USGS bathymetric and topographic data, the North Arm's volumes at WSEs of 4,190 and 4,198 feet (NVGD 1929) are 2.7 maf and 4.9 maf, respectively (USGS 2006). As of June 25, 2025, the North Arm's WSE was about 4,192.1 feet, and the North Arm had a volume of 3,241,855 af (USGS 2025).

5 Biota Monitoring Results

Three monitoring events were conducted by Dr. Bonnie Baxter of Westminster University during the Demonstration Plant's operation (Baxter 2025). By design, the first monitoring event occurred during the first month of operation, and the second monitoring event occurred 2 months later. The third monitoring event was added during the summer as the algae community began to grow as a result of the warmer brine temperatures. The first monitoring event occurred on February 28, 2025, during week 4 of operation; the second on April 24, 2025, during week 12 of operation; and the third on June 23, 2025, during week 21 of operation. The study design captured seasonal biota presence in the North Arm and the plant's discharge during its operation. This section summarizes the biota monitoring report, which is provided as Appendix C, *Biota Monitoring Report*.

In summary, North Arm biota were present in both the influent and discharge flows collected during all monitoring events, and the abundance and diversity of biota in the samples varied seasonally, as anticipated. The growth rates of biota in the influent, discharge, and mixed samples were similar. The study provides evidence that the Demonstration Plant's DLE process does not harm North Arm biota.

5.1 Presence of Biota

A hemacytometer (which provides a grid and special cover glass to control the distributed volume) was used to estimate the cell density in each of the influent and discharge samples. The results are shown in Table 14. The first samples, from February, demonstrated a robust cell density in the influent sample, but the discharge sample (with observed rust flakes) had few if any visible cells. The April samples had comparable numbers of cells in the discharge as in the influent, and the cells-per-milliliter counts were in the billions. The June samples had more cells in the influent than in the discharge. This decrease is mostly due to the presence of algae (which was not present in February and April) in the influent and reduced numbers in the discharge due to filtration. By comparing influent and discharge samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell count for archaea, bacteria, or fungi; algae reductions, when they occurred, were due to filtration.

Table 14. Biota Cell Counts and Dry Weight

Month	Number of Cells Observed via Hemacytometer (cells per mL)		Dry Weight of Biota (g/L)	
	Influent	Discharge	Influent	Discharge
February 2025	2.8×10^8	None observed[1]	Not analyzed	
April 2025	3.6×10^9	4.6×10^9	3.7	4.5
June 2025	8.1×10^9	5.3×10^9	5.2	4.2

Definitions: g/L = grams per liter; mL = milliliters

1. Although no cells were observed using the hemacytometer, DNA sequencing revealed the presence and abundance of archaea, bacteria, and fungi in the discharge sample.

5.2 Biota Diversity

To document the species of biota that are present in both the influent and discharge flows, a consulting laboratory was contracted for DNA sequencing. The laboratory amplified DNA genes (16S rRNA, 18S rRNA, or ITS) associated with bacteria, archaea, algae, or fungi. The DNA is very specific to communities that might be present in North Arm brine. For the February and April monitoring events, archaea, bacteria, and fungi were present and abundant, but algae was not present. This is to be expected because the colder temperatures of North Arm brine in February and April do not support algae communities. Algae communities were observed in samples from the June monitoring event.

This analysis provides the relative abundance of the specific biota. It is important to note that the abundance is relative to other species in the influent or discharge samples, but no comparison of the influent to the discharge is valid. The abundance of archaea, bacteria, and fungi for the April monitoring event is shown in Figure 11. The abundance of archaea and bacteria (prokaryotes) and algae (eukaryotes) for the June monitoring event is shown in Figure 12.

By comparing influent and discharge (effluent) flow samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell diversity in the North Arm of the GSL for archaea, bacteria, and fungi species. These biota are not affected by the DLE processes, including filtration, due to the small size (1–2 microns) of the individual organisms. When algae species are present during the warm summer months, the number of species is reduced by the filtration process due to the larger size (10–20 microns) of the individual organisms.

Figure 11. April 2025 Biota Abundance Graphs

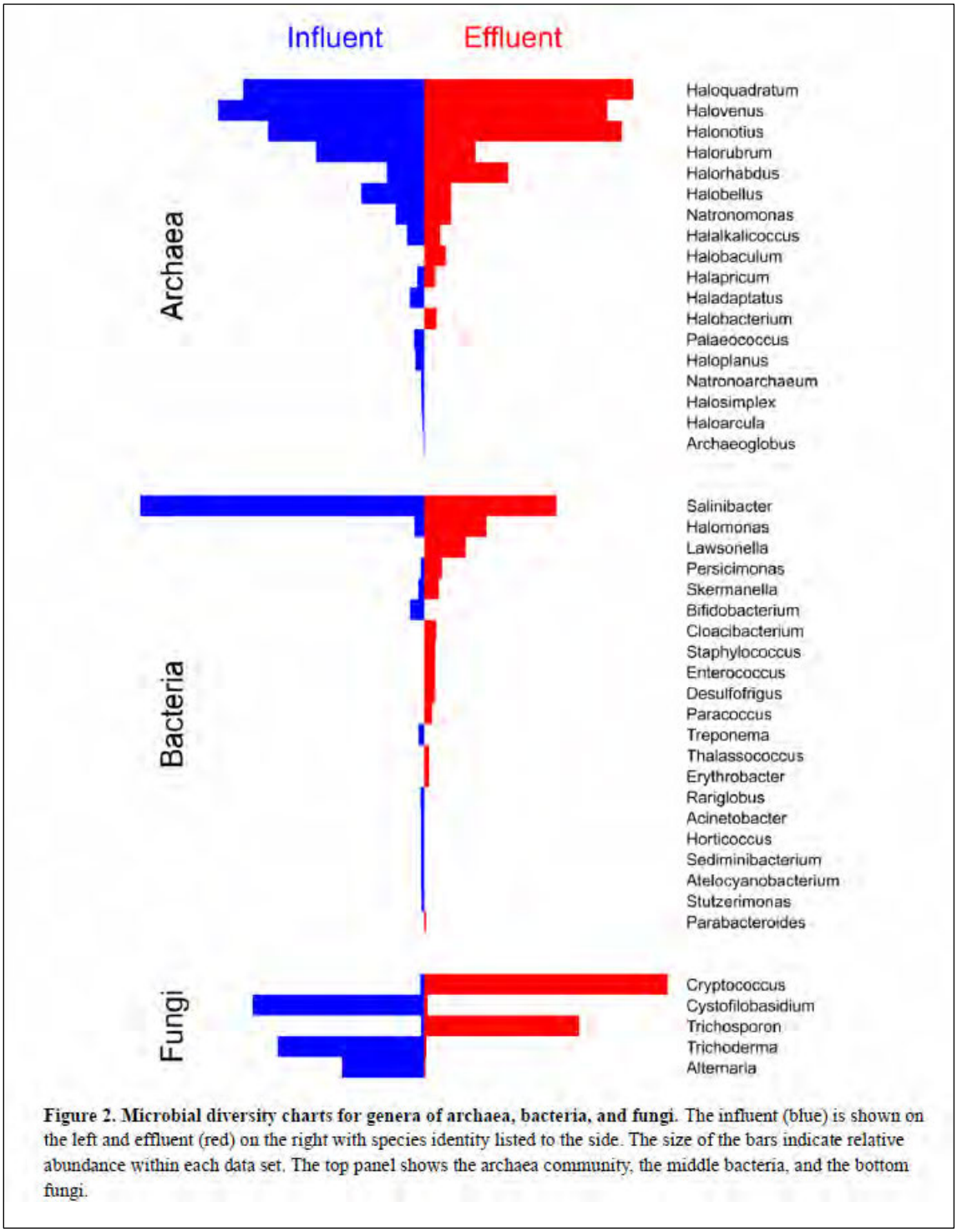


Figure 2. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Figure 12. June 2025 Biota Abundance Graphs

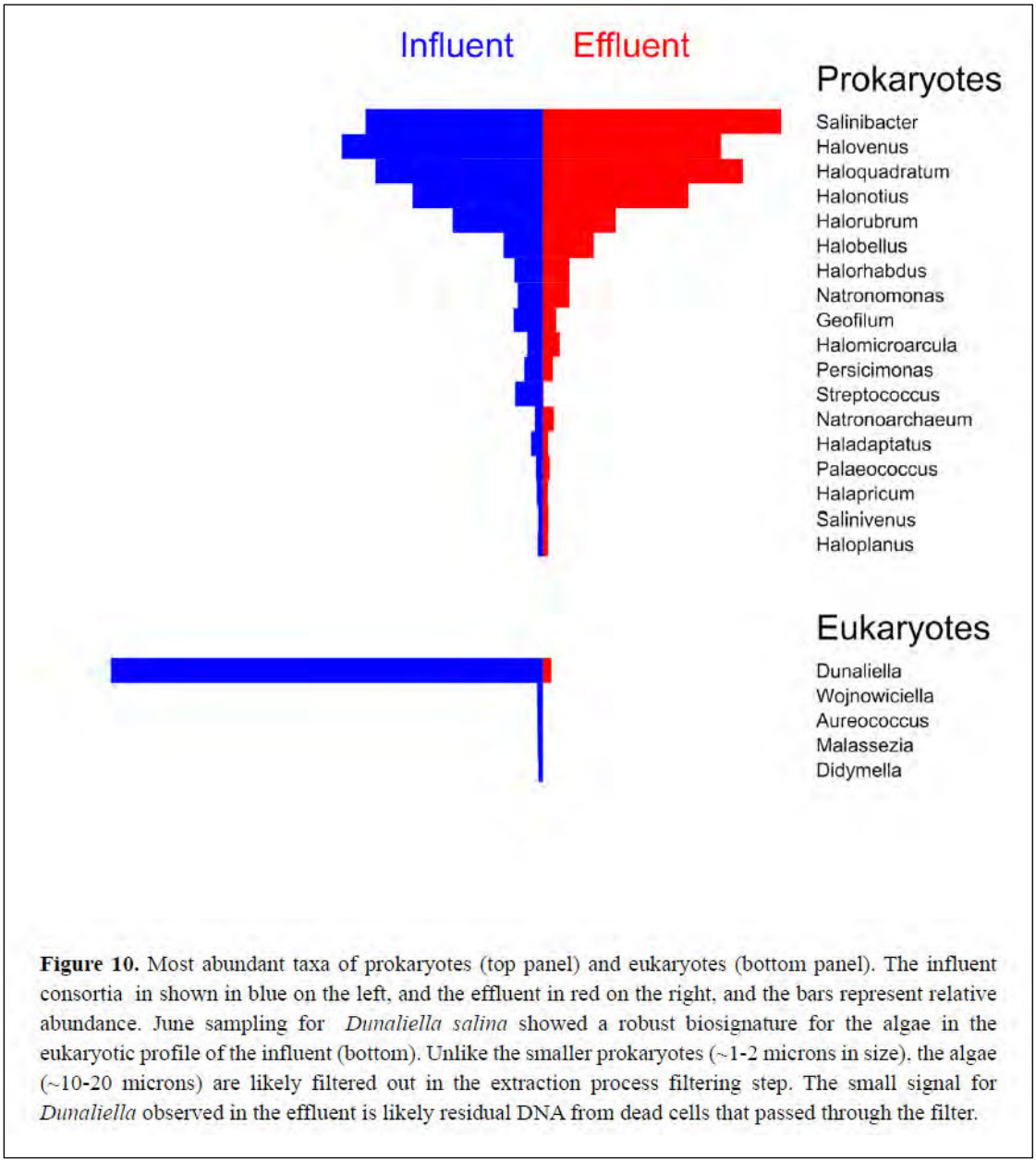


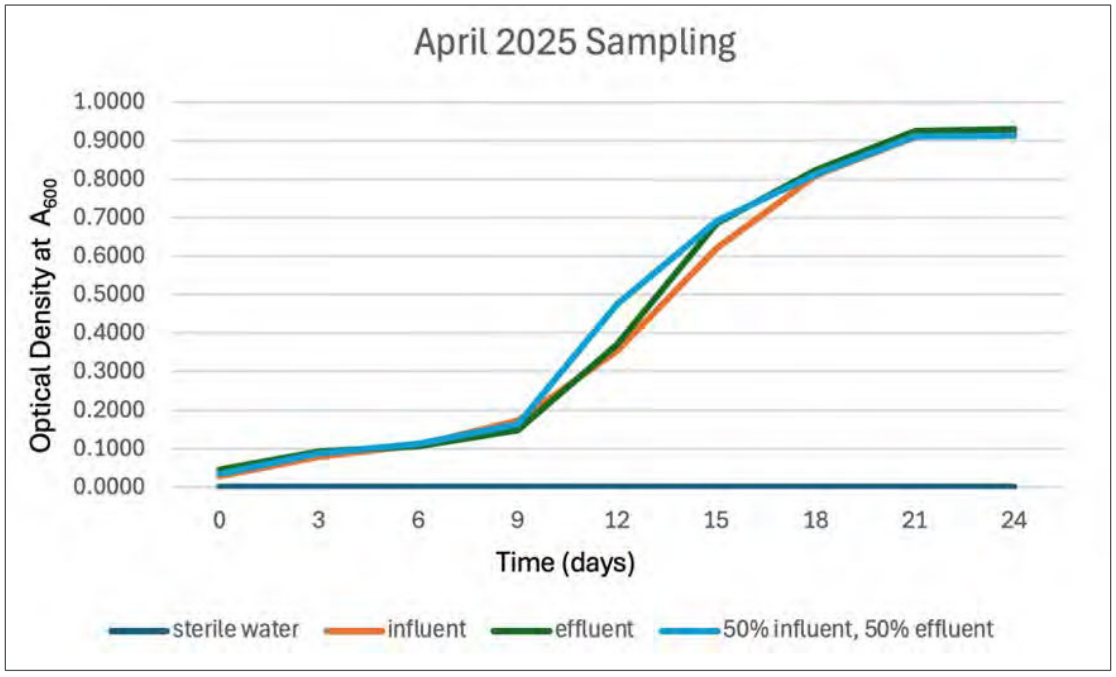
Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

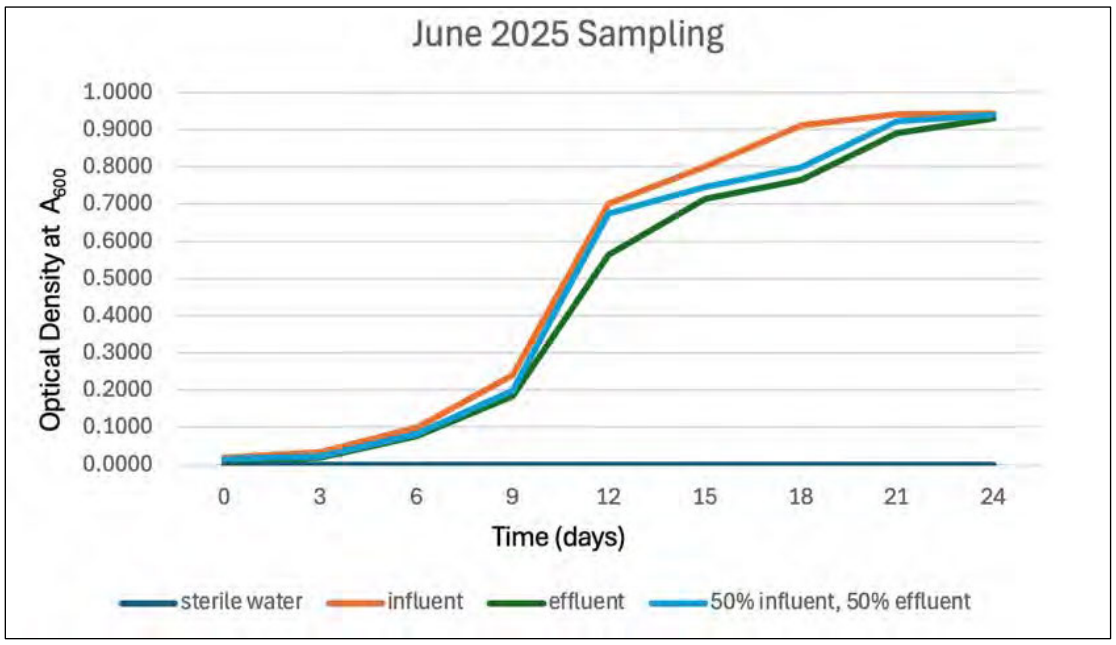
5.3 Biota Growth in Discharge

To understand the effects of discharges into the North Arm on biota growth, a time course growth experiment was conducted on influent, discharge, or a mix of the influent and discharge (representing North Arm brine after discharge). The protocol that was used consisted of inoculating 9 milliliters (mL) of 23% salt modified growth media (Dyall-Smith 2009) with 1 mL of sample. The inoculated samples consisted of (1) sterile deionized water serving as a control, (2) influent flow, (3) discharge (effluent) flow, and (4) a 50:50 mix of influent and discharge, which represents the in-lake mixture of discharge and brine.

Figure 13 shows the growth curves of the samples collected during the April and June monitoring events. All samples follow a standard growth curve. The microbial communities appear to have reached a stationary growth phase over this period of study. This is expected of healthy cultures. Also note that the sample representing the North Arm brine mixed with the discharge flow did not visibly affect growth of the biota. By comparing influent, discharge, and mixture sample results, this analysis provides evidence that the Demonstration Plant's DLE process does not prevent biota cell growth in the North Arm of the GSL.

Figure 13. April and June 2025 Biota Growth Results





6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation

Waterleaf evaluated the results of the chemistry and biota analyses to determine whether negative impacts on the North Arm's chemistry and biota occurred during the operation of the Demonstration Plant.

Negative impact is defined by UDWQ R317-16-16 to include the following evaluation criteria:

> Negative impact includes any activity or action that:
>
> - Causes pollution, or negatively alters the salinity or other aspects of water chemistry in Great Salt Lake;
> - Negatively alters the volume or timing of water flows to Great Salt Lake, or water levels in Great Salt Lake or Great Salt Lake wetlands;
> - Reduces, degrades, or otherwise negatively alters habitat in and around Great Salt Lake; or
> - Results in harmful physiological impacts to Great Salt Lake biota, including disruptions to survival, reproduction, or growth.

Waterleaf asserts no negative impacts on the North Arm of the GSL based on the above criteria. These evaluation criteria are discussed below.

6.1 Impacts on North Arm Salinity or Water Quality Chemistry

Waterleaf asserts that there were no negative impacts on North Arm salinity or water quality chemistry from operation of the Demonstration Plant, based on the results, analysis and review provided in Section 3.3, *Chemistry Monitoring Results Discussion and Graphs*. This assertion is based on the following:

- Compliance monitoring met the requirements of the UPDES permit for protecting the beneficial uses of the North Arm of the GSL. No water quality standards were exceeded.
- The incremental decrease in volume discharged (0.142 af; influent and groundwater volume subtracted from discharge volume) compared to the total volume of the North Arm of the GSL (3.24 maf) indicates that the Demonstration Plant's retained volume is *de minimis* and would not impact North Arm salinity or water quality.
- The Demonstration Plant's operation was temporary (7 months).
- The results of the compliance monitoring analysis, comparing average discharge concentrations to average influent concentrations and MDLs, uncertainty and error consideration, association of specific monitoring results due to operational phases, comparison of the mass load to the North Arm from Demonstration Plant operations to existing North Arm mass loads, and results of the biota monitoring study provide evidence that the Demonstration Plant did not harm North Arm water quality.

- Manganese, a component of the DLE process, had higher average discharge concentrations compared to the average influent concentrations. Examination of federal and state standards for lake recreational contact revealed that no standards or guidelines exist. Discharge concentrations are well below federal guidelines for dermal exposure due to showering in drinking water.
- The density of the North Arm discharge did not vary significantly from the density of the influent. This data shows that the density (salinity) of the North Arm was not changed due to the operation of the Demonstration Plant.

6.2 Impacts on North Arm Volume, Flows, or Water Levels

Waterleaf asserts that there were no negative impacts on North Arm volume, flows, or water levels from operation of the Demonstration Plant. This assertion is based on continuous flow monitoring data collected during operation of the Demonstration Plant. The flow monitoring data documented that the influent and discharge flows were comparable during operation. The Demonstration Plant diverted raw brine directly from the open waters of the GSL and discharged depleted brine back to the open waters of the GSL. The processing time from when the raw brine was diverted to when the depleted brine was discharged was less than 8 hours. The Demonstration Plant did not divert any surface water flows for its operation.

The results of the flow monitoring events are summarized in Section 4, *Flow Monitoring Results*.

Based on the Demonstration Plant's flow monitoring and the final water balance, the volume of North Arm raw brine diverted and groundwater added was documented to be discharged back to the North Arm, less water lost to processing the product. The amount of water (about 0.142 af) used to produce the liquid product is considered by Waterleaf to be *de minimis* compared to the 3.24 maf in the North Arm (at a WSE of 4,192 feet). Because no surface waters were diverted, the Demonstration Plant did not alter the timing of water flows to the North Arm of the GSL.

Waterleaf asserts that the Demonstration Plant did not alter the volume or timing of water flows to the GSL or the water levels in the GSL or GSL wetlands.

6.3 Impacts on North Arm Habitat

Waterleaf asserts that there were no negative impacts on North Arm habitat. This assertion is based on evaluating the presence of microbialites that could be present or could grow in and along the open waters of the GSL. Based on the survey conducted on the intake and outfall pipe easements before construction of the Demonstration Plant, no microbialite structures were identified (HDR 2024).

Therefore, Waterleaf asserts that the Demonstration Plant did not reduce, degrade, or otherwise negatively alter habitat in and around the North Arm of the GSL.

6.4 Impacts on North Arm Biota

To evaluate impacts on North Arm biota, Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to conduct biota monitoring during operation of the Demonstration Plant (Baxter 2025). The biota monitoring documented the presence and abundance of biota (archaea, bacteria, algae, and fungi) in the influent to and the discharge from the Demonstration Plant during its operation. The study also investigated whether biota could reproduce and grow in the discharge water from the Demonstration Plant.

The results of the biota analyses are summarized in Section 5, *Biota Monitoring Results*, and the complete report is provided as Appendix C, *Biota Monitoring Report*.

Based on the biota monitoring study and results, North Arm biota were documented to be present and abundant in the raw brine influent and Demonstration Plant discharge water during its operation. Biota were also documented to grow and reproduce in the discharge water from the Demonstration Plant. Therefore, Waterleaf asserts that the Demonstration Plant did not disrupt survival, reproduction, or growth of North Arm biota (archaea, algae, bacteria, and fungi) and did not have a negative impact on the biota of the North Arm of the GSL.

7 References

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2025 Manganese Risk Evaluation Memo.

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[UGS] Utah Geological Survey

2020 Standard Operating Procedure – Great Salt Lake Water Density Measurement and Salinity Calculation. Open-File Report 0728. June.

2025 Estimates of Lithium, Magnesium and Potassium Resources in Great Salt Lake Brine. Open-File Report 769.

[USGS] U.S. Geological Survey

2006 Calculation of Area and Volume for the North Part of Great Salt Lake, Utah. December.

2023 Density and Salinity Data to Validate an Equation of State for Hypersaline Water in Great Salt Lake, Utah, 2021–2022. November 13.

2025 Great Salt Lake Hydro Mapper [website]. https://webapps.usgs.gov/gsl/data.html. Accessed June 25, 2025.

[Waterleaf] Waterleaf Resources

2025a Data Quality Objectives Memo. May 9.

2025b Great Salt Lake Lithium Feasibility Project – Final Report. October

APPENDIX A

UPDES Permit

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMITS

Minor Industrial Permit No. **UT0026280**

In compliance with provisions of the Utah *Water Quality Act*, *Title 19*, *Chapter 5*, *Utah Code* (the *"Act"*),

WATERLEAF RESOURCES, LLC (Permittee),

is hereby authorized to discharge from

GREAT SALT LAKE LITHIUM PROJECT (Facility),

to receiving waters named **GUNNISON BAY**, **THE GREAT SALT LAKE,**

in accordance with specific limitations, outfalls, and other conditions set forth herein.

This permit shall become effective on **February 4th, 2025.**

This permit expires at midnight on **February 4th, 2028.**

Signed this **fourth day of February 2025**.

John K. Mackey, P.E.
Director

DWQ-2024-000479

Table of Contents

Outline Page Number

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS 1
A. Description of Discharge Points 1
B. Narrative Standard 1
C. Specific Limitations and Self-Monitoring Requirements 1
D. Reporting of Monitoring Results 4
II. PRETREATMENT REQUIREMENTS 5
III. BIOSOLIDS REQUIREMENTS 8
A. Biosolids Treatment and Disposal 8
IV. STORM WATER REQUIREMENTS 9
V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS 10
A. Representative Sampling 10
B. Monitoring Procedures 10
C. Penalties for Tampering 10
D. Compliance Schedules 10
E. Additional Monitoring by the Permittee 10
F. Records Contents 10
G. Retention of Records 10
H. Twenty-four Hour Notice of Noncompliance Reporting 10
I. Other Noncompliance Reporting 11
J. Inspection and Entry 12
VI. COMPLIANCE RESPONSIBILITIES 13
A. Duty to Comply 13
B. Penalties for Violations of Permit Conditions 13
C. Need to Halt or Reduce Activity not a Defense 13
D. Duty to Mitigate 13
E. Proper Operation and Maintenance 13
F. Removed Substances 13
G. Bypass of Treatment Facilities 13
H. Upset Conditions 15
I. Toxic Pollutants 15
J. Changes in Discharge of Toxic Substances 15
VII. GENERAL REQUIREMENTS 17
A. Planned Changes 17
B. Anticipated Noncompliance 17
C. Permit Actions 17
D. Duty to Reapply 17
E. Duty to Provide Information 17
F. Other Information 17
G. Signatory Requirements 17
H. Penalties for Falsification of Reports 19
I. Availability of Reports 19
J. Oil and Hazardous Substance Liability 19
K. Property Rights 19
L. Severability 19
M. Transfers 19
N. State or Federal Laws 19
O. Water Quality - Reopener Provision 20
P. Biosolids – Reopener Provision ..... **Error! Bookmark not defined.**
Q. Toxicity Limitation - Reopener Provision 20

VIII. DEFINITIONS 21
A. Wastewater 21

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS

A. Description of Discharge Points. The authorization to discharge wastewater provided under this part is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit are violations of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

Outfall Number	Location of Discharge Outfall
001	Discharge to Gunnison Bay, Great Salt Lake. Located at latitude 41° 26' 44.16" and longitude 112° 41' 36.04".

B. Narrative Standard. It shall be a violation of this permit, for Permittee to discharge effluent or place any waste, pollutant, or other substance into Waters of the State in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum, or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life, objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by a bioassay or other tests performed in accordance with standard procedures.

C. Specific Limitations and Self-Monitoring Requirements.

1. Effective immediately, and lasting through the life of this permit, there shall be no acute or chronic toxicity in Outfall 001 as defined in *Part VIII*.

2. Discharge Limitations and Reporting Requirements:

   a. The limitations specified in this section shall be applied on a net basis, unless otherwise noted, if the source of the applicant's water supply is the same body of water into which the discharge is made. With the exception of calcium, there shall be no discharge of process wastewater pollutants into navigable waters. See Fact Sheet Statement of Basis for more information.
   b. Permittee must notify the Division of Water Quality (DWQ) fourteen (14) days prior to discharge. From the date the Permittee begins discharge, Permittee will be authorized to discharge from Outfall 001 for twelve (12) consecutive months only.
   c. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Effluent Limitations *a				
	Maximum Weekly Avg	Annual Load	Weekly Load	Daily Minimum	Daily Maximum
Total Flow *b, *c, *d Demonstration Plant	0.06	--	--	--	0.12
Temperature *d	Report	--	--	--	Report
pH, Standard Units	--	--	--	6.5	9
Oil & Grease	--	--	--	--	10.0
Total Alkalinity, *d	Report	--	--	--	Report
Total Dissolved Solids *d	Report	--	--	--	Report
Total Suspended Solids *d	Report	--	--	--	Report

Sulfate *d	Report	--	--	--	Report
Nitrate *d	Report	--	--	--	Report
Nitrite *d	Report	--	--	--	Report
Carbonate *d	Report	--	--	--	Report
Hydroxide *d	Report	--	--	--	Report
Chemical Oxygen Demand *d	Report	--	--	--	Report
Biological Oxygen Demand *d	Report	--	--	--	Report
Silica *d	Report	--	--	--	Report
Sodium *d	Report	--	--	--	Report
Calcium *d *e	Report	--	--	--	Report
Potassium *d	Report	--	--	--	Report
Boron *d	Report	--	--	--	Report
Bromine *d	Report	--	--	--	Report
Silicon *d	Report	--	--	--	Report
Total Lithium *d	Report	--	--	--	Report
Total Arsenic *d, *f	--	*g	*h	--	--
Total Cadmium *d, *f	--	*g	*h	--	--
Total Chromium *d, *f	--	*g	*h	--	--
Total Copper *d, *f	--	*g	*h	--	--
Total Lead *d, *f	--	*g	*h	--	--
Total Molybdenum *d, *f	--	*g	*h	--	--
Total Nickel *d, *f	--	*g	*h	--	--
Total Selenium *d, *f	--	*g	*h	--	--
Total Silver *d, *f	--	*g	*h	--	--
Total Zinc *d, *f	--	*g	*h	--	--
Total Cyanide *d, *f	--	*g	*h	--	--
Total Mercury *d, *f	--	*g	*h	--	--

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c, *d	Continuous	Recorder	MGD
pH	Weekly	Instantaneous	SU
DO	Weekly	Instantaneous	mg/L
Temperature *d	Weekly	Instantaneous	mg/L
Oil & Grease *i	Weekly	Grab	mg/L
Total Alkalinity, *d	Weekly	Composite	mg/L
Total Dissolved Solids *d	Weekly	Composite	mg/L
Total Suspended Solids *d	Weekly	Composite	mg/L
Sulfate *d	Weekly	Composite	mg/L
Nitrate *d	Weekly	Composite	mg/L
Nitrite *d	Weekly	Composite	mg/L
Carbonate *d	Weekly	Composite	mg/L
Hydroxide *d	Weekly	Composite	mg/L
Chemical Oxygen Demand *d	Weekly	Composite	mg/L
Biological Oxygen Demand *d	Weekly	Composite	mg/L
Silica *d	Weekly	Composite	mg/L
Sodium *d	Weekly	Composite	mg/L
Calcium *d, *e	Weekly	Composite	mg/L
Potassium *d	Weekly	Composite	mg/L
Boron *d	Weekly	Composite	mg/L

Bromine *d	Weekly	Composite	mg/L
Silicon *d	Weekly	Composite	mg/L
Total Lithium *d	Weekly	Composite	mg/L
Total Arsenic	Weekly	Composite	mg/L, kg/day
Total Cadmium	Weekly	Composite	mg/L, kg/day
Total Chromium	Weekly	Composite	mg/L, kg/day
Total Copper	Weekly	Composite	mg/L, kg/day
Total Lead	Weekly	Composite	mg/L, kg/day
Total Molybdenum	Weekly	Composite	mg/L, kg/day
Total Nickel	Weekly	Composite	mg/L, kg/day
Total Selenium	Weekly	Composite	mg/L, kg/day
Total Silver	Weekly	Composite	mg/L, kg/day
Total Zinc	Weekly	Composite	mg/L, kg/day
Total Cyanide	Weekly	Composite	mg/L, kg/day
Total Arsenic	Yearly	Composite	kg/year
Total Cadmium	Yearly	Composite	kg/year
Total Chromium	Yearly	Composite	kg/year
Total Copper	Yearly	Composite	kg/year
Total Lead	Yearly	Composite	kg/year
Total Molybdenum	Yearly	Composite	kg/year
Total Nickel	Yearly	Composite	kg/year
Total Selenium	Yearly	Composite	kg/year
Total Silver	Yearly	Composite	kg/year
Total Zinc	Yearly	Composite	kg/year
Total Cyanide	Yearly	Composite	kg/year

*a See Definitions, *Part VIII*, for definition of terms.
*b Flow measurements of influent/effluent volume shall be made in such a manner that Permittee can affirmatively demonstrate that representative values are being obtained.
*c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.
*d In addition to monitoring the final discharge, influent samples shall be taken and analyzed for this constituent at the same frequency as required for this constituent in the discharge.
*e Discharge of calcium is allowed as a process wastewater pollutant. See Fact Sheet Statement of Basis for more information.
*f The minimum detection limit (MDL) of the test method used for analysis must be below this limit in mg/L. If a test method is not available, Permittee must submit documentation to the Director regarding the method that will be used. Total Arsenic 0.180 mg/L, Total Cadmium 0.0052 mg/L, Total Chromium 0.0166 mg/L, Total Copper 0.067 mg/L, Total Lead 0.0465 mg/L, Total Molybdenum NA, Total Nickel 0.376 mg/L, Total Selenium 0.0079 mg/L, Total Silver 0.0899 mg/L, Total Zinc 0.675 mg/L, Total Cyanide 0.0093 mg/L, Total Mercury 0.000022 mg/L.
*g The average annual load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/year.
*h The average weekly load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/day.
*i Oil & Grease sampled when sheen is present or visible. If no sheen is present or visible, report NA.

d. As authorized in Part VII.E.:
   (1) Permittee shall establish laboratory quality performance for the Great Salt Lake North Arm matrix as soon as possible, and present and review the laboratory quality performance with the Director.
      (a) Based on the laboratory quality performance, Permittee shall work with the Director to define suitable data quality objectives for the Demonstration Plant, that evidence protection of Great Salt Lake

chemistry and biota. Following the work with the Director, Permittee shall formalize the recommended data quality objectives, in writing, and submit to the Director prior to completion of testing at the Demonstration Plant.

(2) Permittee shall submit a Level IV data quality package with each compliance sample.

(3) Permittee shall coordinate with DWQ on the collection and delivery of a split sample for each compliance sample taken. Permittee shall handle and deliver split samples using proper chain of custody procedures as described in 40 C.F.R. § 136.

D. Reporting of Monitoring Results.

1. Reporting of Wastewater Monitoring Results Monitoring results obtained by the Permittee during the previous month shall be summarized for each month and reported to DWQ on a Discharge Monitoring Report Form (EPA No. 3320-1)* or by NetDMR, post-marked or entered into NetDMR no later than 28 days after the last day of the reporting period. The first report is due on **March 28, 2025**. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports including whole effluent toxicity (WET) test reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part VII.G*), and submitted by NetDMR, or to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
PO Box 144870
Salt Lake City, Utah 84114-4870

* Starting January 1, 2017 monitoring results must be submitted using NetDMR unless Permittee has successfully petitioned for an exception.

II. PRETREATMENT REQUIREMENTS

A. Definitions. For this section, the following definitions shall apply:

1. *Indirect Discharge* means the introduction of pollutants into a publicly-owned treatment works (POTW) from any non-domestic source regulated under section 307 (b), (c) or (d) of the CWA.

2. *Interference* means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

   a. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and

   b. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

3. *Pass Through means* a Discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

4. *Publicly Owned Treatment Works* or *POTW* means a treatment works, as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the CWA). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality, as defined in section 502(4) of the CWA, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

5. *Significant Industrial User (SIU)* is defined as an Industrial User discharging to a POTW that satisfies any of the following:

   a. Has a process wastewater flow of 25,000 gallons or more per average work day;

   b. Has a flow greater than five percent of the flow carried by the municipal system receiving the waste;

   c. Is subject to Categorical Pretreatment Standards, or

   d. Has a reasonable potential for adversely affecting the operation of the POTW or violating any pretreatment standard or requirement.

6. *User or Industrial User (IU)* means a source of Indirect Discharge.

B. Discharge to POTW. Any wastewaters discharged to a Publicly Owned Treatment Works (POTW), either as an Indirect Discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of The Water Quality Act of 1987, Permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at 40 CFR 403, the State Pretreatment Requirements at Utah Administrative Code (UAC) R317-8-8, and any specific local discharge limitations developed by the POTW accepting the wastewaters. At a minimum, the discharge into a POTW must meet the requirements of Part II. C., D. and E. of the permit.

C. Hazardous Waste Notification. Permittee must notify the POTW, the EPA Regional Waste Management Director, the Director and the State hazardous waste authorities in writing if they discharge any substance into a POTW that, if otherwise disposed of, would be considered a hazardous waste under 40 CFR 261. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

D. General and Specific Prohibitions.

1. General Prohibitions. Permittee may not introduce into a POTW any pollutant(s) which cause Pass Through or Interference. These general prohibitions and the specific prohibitions in II. D. 2. of this section apply to the introducing pollutants into a POTW whether or not Permittee is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

2. Specific Prohibitions. The following pollutants shall not be introduced into a POTW:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140˚F (60˚C);

   b. Pollutants, which will cause corrosive structural damage to the POTW, but in no case, discharges with a pH lower than 5.0;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;

   d. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at such volume or strength as to cause Interference in the POTW;

   e. Heat in amounts, which will inhibit biological activity in the POTW, resulting in Interference, but in no case, heat in such quantities that the influent to the sewage treatment works exceeds 104˚F (40˚C));

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants, which result in the presence of toxic gases, vapor, or fumes within the POTW in a quantity that may cause worker health or safety problems;

   h. Any trucked or hauled pollutants, except at discharge points designated by the POTW; or

   i. Any pollutant that causes Pass Through or Interference at the POTW.

j. Any specific pollutant which exceeds any Local Limitation established by the POTW.

E. Categorical Standards. In addition to the general and specific limitations expressed in *Part II. D.* of this section, applicable National Categorical Pretreatment Standards must be met by all Industrial Users discharging into a POTW. These standards are published in the federal regulations at *40 CFR 405 through 471*.

III. BIOSOLIDS REQUIREMENTS

A. Biosolids Treatment and Disposal. UAC R317-8-1.10 regulates the disposal of sewage sludge (biosolids), which incorporates the federal standards found in 40 CFR Part 503 by reference. However, this is an industrial facility that does not regularly produce regulated biosolids. Therefore, R317-8-1.10 does not apply at this time.

B. Biosolids – Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate biosolids limitations (and compliance schedule, if necessary), management practices, other appropriate requirements to protect public health and the environment, or if there have been substantial changes (or such changes are planned) in biosolids use or disposal practices; applicable management practices or numerical limitations for pollutants in biosolids have been promulgated which are more stringent than the requirements in this permit; and/or it has been determined that Permittee's biosolids use or land application practices do not comply with existing applicable state of federal regulations.

IV. STORM WATER REQUIREMENTS.

A. Industrial Storm Water Permit. Based on the type of industrial activities occurring at the Permitted Facility, Permittee is required to maintain separate coverage or an appropriate exclusion under the Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activities (UTR000000). If the Permitted Facility is not already covered, Permittee has thirty (30) days from when this permit is issued to submit the appropriate Notice of Intent (NOI) for the MSGP or exclusion documentation.

B. Construction Storm Water Permit. Any construction at the Permitted Facility that disturbs an acre or more of land, including less than an acre if it is part of a common plan of development or sale, is required to obtain coverage under the UPDES Construction General Storm Water Permit (UTRC00000). Permittee must obtain permit coverage prior to land disturbance. If the site qualifies, the Permittee may submit a Low Erosivity Waiver (LEW) Certification instead of permit coverage.

V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS

A. Representative Sampling. Permittee shall collect samples in compliance with the monitoring requirements established under *Part I* from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Samples of biosolids shall be collected at a location representative of the quality of biosolids immediately prior to the use-disposal practice.

B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under UAC R317-2-10, UAC R317-8-4.1(10)(d), and/or 40 CFR § 503 utilizing sufficiently sensitive test methods unless other test procedures have been specified in this permit. Monitoring must be conducted according to the test procedures listed above unless another method is required under 40 CFR Chapter I subchapters N or O. Sufficiently sensitive test method means: (1) The method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or (2) The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O for the measured pollutant or pollutant parameter as per 40 CFR 122.44(i)(1)(iv)(A).

C. Penalties for Tampering. Utah Code § 19-5-115(4) of the Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per day of violation, or by imprisonment for not more than six (6) months per violation, or by both.

D. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

E. Additional Monitoring by the Permittee. If Permittee monitors any parameter more frequently than required by this permit, using test procedures approved under Permit Part V.B., the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or the Biosolids Report Form.

F. Records Contents. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements:
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

G. Retention of Records. Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location

H. Twenty-four (24) Hour Notice of Noncompliance Reporting.

1. In accordance with UAC R317-8-4, Permittee shall (orally) report any noncompliance which may endanger health or the environment, including transportation accidents, spills, and uncontrolled runoff from biosolids transfer or land application sites which may seriously endanger health or environment, as soon as possible, but no later than twenty-four (24) hours from the time Permittee first became aware of circumstances. The report shall be made to the DWQ via the 24-hour answering service (801) 536-4123.

2. The following occurrences of noncompliance shall initially be reported by telephone to the DWQ via the 24-hour answering service as soon as possible but no later than twenty-four (24) hours from the time Permittee becomes aware of the circumstances:

   a. Any noncompliance which may endanger health or the environment;

   b. Any unanticipated bypass, which exceeds any effluent limitation in the permit (See *Part VI.G, Bypass of Treatment Facilities.)*;

   c. Any Upset which exceeds any effluent limitation in the permit (See *Part VI.H, Upset Conditions*.);

   d. Violation of a daily discharge limitation for any of the pollutants listed in the permit. For other permit violations which will not endanger health or the environment, DWQ may otherwise be notified during business hours (801) 536-4300; or,

   e. Violation of any of the Table 3 metals limits, the pathogen limits, the vector attraction reduction limits or the management practices for biosolids that have been sold or given away.

3. A written submission shall also be provided within five (5) days of the time that Permittee becomes aware of the circumstances. The written submission shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times;

   c. The estimated time noncompliance is expected to continue if it has not been corrected;

   d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and,

   e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.

4. The Director may waive the written report on a case-by-case basis if the oral report has been received within twenty-four (24) hours by the Division of Water Quality, (801) 536-4300.

5. Reports shall be submitted to the addresses in *Part I.D, Reporting of Monitoring Results*.

I. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within twenty-four (24) hours shall be reported at the time that monitoring reports for *Part I.D* are submitted. The reports shall contain the information listed in *Part V.H.3.*

J. Inspection and Entry Permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director) upon the presentation of agency credentials and other documents as may be required by law, to:

1. Enter upon Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, including but not limited to, biosolids treatment, collection, storage facilities or area, transport vehicles and containers, and land application sites;

4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location, including, but not limited to, digested biosolids before dewatering, dewatered biosolids, biosolids transfer or staging areas, any ground or surface waters at the land application sites or biosolids, soils, or vegetation on the land application sites; and,

5. The Permittee shall obtain permission or clearance from the landowner or leaseholder, if the landowner is someone other than the Permittee, to permit the Director, or authorized representative, to access the permitted facilities and activities for entry and inspection. The Permittee shall make necessary arrangements with any legally interested parties so as to permit the Director, or authorized representative, to enter and inspect without delay.

VI. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply. Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of *the Act* and is grounds for administrative and civil enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Permittee shall give sufficient advance notice to the Director of any planned changes in the Permitted Facility or activity, which may result in noncompliance with permit requirements so as to provide the Director with adequate time to review the changes and potentially appropriate remedies.

B. Penalties for Violations of Permit Conditions. Utah Code § 19-5-115 of the *Act* provides that any person who violates a permit condition, rule, or order implementing provisions of the *Act* is subject to a civil penalty not to exceed $10,000 per day of such violation. Except as provided at *Part VI.G, Bypass of Treatment Facilities* and *Part VI.H, Upset Conditions*, nothing in this permit shall be construed to relieve Permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate. Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment. Permittee shall also take all reasonable steps to minimize or prevent any land application in violation of this permit.

E. Proper Operation and Maintenance. Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Removed Substances. Collected screening, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.

G. Bypass of Treatment Facilities.

1. Bypass Not Exceeding Limitations. Permittee may allow any bypass to occur which does not cause Permittee to exceed its permitted effluent limitations, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to paragraph 2 and 3 of this section.

2. Prohibition of Bypass.

a. In accordance with Utah Admin. Code R317-8-4.1, bypass is prohibited, and the Director may take enforcement action against Permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of human life, personal injury, or Severe Property Damage;

(2) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance, and

(3) Permittee submitted notices as required under *Part VI.G.3*.

b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in *Parts VI.G.2.a (1), (2) and (3).*

3. Notice.

a. *Anticipated bypass*. Except as provided above in *Part VI.G.2* and below in *Part VI.G.3.b,* if Permittee knows in advance of the need for a bypass, it shall submit prior notice, at least ninety (90) days before the date of bypass. The prior notice shall include the following unless otherwise waived by the Director:

(1) Evaluation of alternative to bypass, including cost-benefit analysis containing an assessment of anticipated resource damages:

(2) A specific bypass plan describing the work to be performed including scheduled dates and times. Permittee must notify the Director in advance of any changes to the bypass schedule;

(3) Description of specific measures to be taken to minimize environmental and public health impacts;

(4) A notification plan sufficient to alert all downstream users, the public and others reasonably expected to be impacted by the bypass;

(5) A water quality assessment plan to include sufficient monitoring of the receiving water before, during and following the bypass to enable evaluation of public health risks and environmental impacts; and,

(6) Any additional information requested by the Director.

b. *Emergency Bypass*. Where ninety (90) days advance notice is not possible, Permittee must notify the Director, and the director of the Department of Natural Resources, as soon as it becomes aware of the need to bypass and provide to the Director the information in *Part VI.G.3.a.(1) through (6)* to the extent practicable.

c. *Unanticipated bypass*. Permittee shall submit notice of an unanticipated bypass to the Director as required under *Part IV.H*, Twenty-Four Hour Reporting. Permittee shall also immediately notify the director of the Department of Natural Resources,

the public and downstream users through means reasonably calculated to provide adequate advance notice of the unanticipated bypass and shall implement measures to minimize impacts to public health, safety, and environment to the extent practicable.

H. Upset Conditions.

1. Effect of an Upset. An Upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of paragraph 2 of this section are met. Director's administrative determination regarding a claim of Upset cannot be judiciously challenged by Permittee until such time as an action is initiated for noncompliance.

2. Conditions necessary for a demonstration of Upset. A permittee who wishes to establish the affirmative defense of Upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An Upset occurred and that the permittee can identify the cause(s) of the Upset;

   b. The permitted Facility was at the time being properly operated;

   c. The permittee submitted notice of the Upset as required under *Part V.H, Twenty-four Hour Notice of Noncompliance Reporting*; and,

   d. The permittee complied with any remedial measures required under *Part VI.D, Duty to Mitigate.*

3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an Upset has the burden of proof.

I. Toxic Pollutants. Permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. § 1317,)(Section 307(a), *The Water Quality Act of 1987)* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

J. Changes in Discharge of Toxic Substances. Permittee shall provide notice to the Director as soon as Permittee knows of, or has reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. One hundred micrograms per liter (100 ug/L);

   b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,

d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. Five hundred micrograms per liter (500 ug/L);

   b. One milligram per liter (1 mg/L) for antimony:

   c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,

   d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

VII. GENERAL REQUIREMENTS

A. Planned Changes. Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the Permitted Facility. Notice is required only when:

1. The alteration or addition to a Permitted Facility may meet one of the criteria for determining whether a facility is a new source in 122.29(b); or

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit nor to notification requirements under Utah Admin. Code R317-8-4.1(15).

3. The alteration or addition results in a significant change in Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. Permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.

B. Anticipated Noncompliance. Permittee shall give advance notice to the Director of any planned changes to the Permitted Facility or activity, which may result in noncompliance with permit requirements.

C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply. If Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, Permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information. Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

F. Other Information. When Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.

G. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.

1. All permit applications shall be signed by either a principal executive officer, ranking elected official or duly authorized representative of the signatory. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described above and submitted to the Director, and,

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the Permitted Facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

(1) For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
   (a) A president, secretary, treasurer, vice-president or officer of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
   (b) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the Permitted Facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship. By a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
   (a) The chief executive officer of the agency, or
   (b) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person.

3. Changes to authorization. If an authorization under *Part VII.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the Permitted Facility, a new authorization satisfying the requirements of *Part VII.G.2.* must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant administrative, criminal and civil penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. Penalties for Falsification of Reports. Section 19-5-115(4) of the he *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than $10,000.00 per day of violation, or by imprisonment for not more than six months per violation, or by both.

I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.

J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude Permittee of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties to which Permittee is or may be subject under the *Act*.

K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers. This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;

2. The notice includes a written agreement between the existing and new permittee's containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,

3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph *2* above.

N. State or Federal Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by

Sections 19-5-117 and 510 of the Clean Water Act or any applicable Federal or State transportation regulations, such as but not limited to the Department of Transportation regulations.

O. Water Quality - Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:

1. Water Quality Standards for the receiving water(s) to which Permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.

2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.

3. Revisions to the current CWA § 208 areawide treatment management plans or promulgations/revisions to TMDLs (40 CFR 130.7) approved by the EPA and adopted by DWQ which calls for different effluent limitations than contained in this permit.

P. Toxicity Limitation - Reopener Provision. Use the following paragraph if WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include, whole effluent toxicity (WET) limitations, a compliance date, a compliance schedule, a change in the whole effluent toxicity (biomonitoring) protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants if one or more of the following events occur;

1. Toxicity is detected, as per *Part I.C.4.a/b* of this permit, during the duration of this permit.

2. The TRE results indicate that the toxicant(s) represent pollutant(s) or pollutant parameter(s) that may be controlled with specific numerical limits, and the Director concludes that numerical controls are appropriate.

3. Following the implementation of numerical control(s) of toxicant(s), the Director agrees that a modified biomonitoring protocol is necessary to compensate for those toxicants that are controlled numerically.

4. The TRE reveals other unique conditions or characteristics, which in the opinion of the permit issuing authority justify the incorporation of unanticipated special conditions in the permit.

Use the following paragraph if there is no WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include WET testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.

VIII. DEFINITIONS

A. Wastewater.

1. The “7-day (and weekly) average”, other than for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains Saturday.

2. The "30-day (and monthly) average," other than for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.

3. "Average annual discharge limit" means maximum allowable average of monthly discharges over a calendar year, calculated as the sum of all monthly discharges measured during a calendar year divided by the number of monthly discharges measured during the year. The timeframe is defined as from January 1st to December 31st.

4. “Act,” means the *Utah Water Quality Act*.

5. “Acute toxicity” occurs when 50 percent or more mortality is observed for either test species at any effluent concentration (lethal concentration or “LC_{50}”).

6. “Bypass,” means the diversion of waste streams from any portion of a treatment facility.

7. “Chronic toxicity” occurs when the IC_{25}< XX% effluent. The XX% effluent is the concentration of the effluent in the receiving water, at the end of the mixing zone expressed as per cent effluent.

8. "IC_{25}" is the concentration of toxicant (given in % effluent) that would cause a 25% reduction in mean young per female, or a 25% reduction in overall growth for the test population.

9. “Composite Samples” shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:

a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;

b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;

c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,

d. Continuous sample volume, with sample collection rate proportional to flow rate.

10. "CWA" means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.

11. "Daily Maximum" (Daily Max.) is the maximum value allowable in any single sample or instantaneous measurement.

12. "EPA," means the United States Environmental Protection Agency.

13. "Director," means Director of the Division of Water Quality.

14. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

15. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.

16. "Severe Property Damage," means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

17. "Upset," means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

APPENDIX B

Laboratory Data Results

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	MDL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25B0543-01	Water	Water	02/06/2025 09:58:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25B0543-02	Water	Water	02/06/2025 10:02:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:07:01	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	50.6	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.172	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	289	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	55.1	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	13300	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8600	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.4	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:03:00	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.62	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:06:52	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.092	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0754	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0412	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.127	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.29	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.298	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 15:53:00	02/07/2025 15:53:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	190000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	17800	247	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 18:24:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	165	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:10:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4750	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	55400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	378	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:16:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:26:10	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	10	2	5		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:24:59	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	103	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	46.7	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.142	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	276	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	1.1	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	45.4	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7670	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.3	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:23:06	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	67600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.429	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:09:24	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.104	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.13	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.224	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.112	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.279	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.268	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:08:00	02/07/2025 16:08:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14900	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 21:00:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	144	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:14:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4050	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	50800	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	278000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	404	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:20:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:28:34	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	6	2	5		mg/L	FALSE	NA	1					DRO																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25B1120-01	Water	Water	02/13/2025 16:10:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25B1120-02	Water	Water	02/13/2025 16:30:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 09:22:00	02/18/2025 12:01:30	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.7	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.9	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.278	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	313	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.2	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 10:48:52	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.462	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 15:41:50	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0276	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.0313	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.0408	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.136	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.032	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.106	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	185000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	10200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/22/2025 00:28:00	02/22/2025 00:28:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:49:00	02/21/2025 15:42:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	7020	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	530	3	4		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:10:00	02/14/2025 17:09:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 14:05:00	02/19/2025 13:33:23	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 09:22:00	02/18/2025 12:19:27	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	109	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	3.1	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:07:35	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	47.5	1.21	2.5		mg/L	FALSE	NA	50					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.322	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	275	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	16.4	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	54.8	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	11700	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	6990	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 10:59:16	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	71000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.298	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 15:43:09	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0328	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.136	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.91	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.0416	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.0992	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	144000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	13100	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/22/2025 01:40:00	02/22/2025 01:40:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:49:00	02/21/2025 15:47:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	3100	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	48700	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	287000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	454	4	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:10:00	02/14/2025 17:10:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 14:05:00	02/19/2025 13:36:18	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake-Grab	25B1871-01	Water	Water	02/25/2025 12:02:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall-Grab	25B1871-02	Water	Water	02/25/2025 12:04:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 10:05:00	02/27/2025 11:54:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	21.7	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.5	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	64.5	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	317	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	70.2	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	14100	4.8	10		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	8510	17.1	25		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 12:33:38	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	81100	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.486	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.0012	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0189	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0656	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0794	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.124	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.124	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0838	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 03:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	181000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	21400	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:15:00	02/26/2025 13:55:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	197	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	03/05/2025 11:30:00	03/05/2025 15:53:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	6700	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	59000	21.6	53.7		mg/L	FALSE	NA	10					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	35	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:31:00	02/26/2025 14:02:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:15:00	03/04/2025 10:39:40	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 10:05:00	02/27/2025 12:03:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	67.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	51.8	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	258	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	36.1	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	11600	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	6860	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 12:40:47	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	61400	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.211	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0161	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0604	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.361	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.0681	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.101	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0612	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 04:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	145000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	12600	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:15:00	02/26/2025 15:07:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	151	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	03/05/2025 11:30:00	03/05/2025 15:57:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2820	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	48600	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	262000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	39	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:31:00	02/26/2025 14:03:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 13:15:00	03/04/2025 10:43:23	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNU	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME		ANALYTE	Result	DL	RL	UNC	UNITS	RPTxMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUD	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake - Grab	25C0269-01	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall - Grab	25C0269-02	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 11:26	3/6/2025 12:26	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		28	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		59	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.18	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		292	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		0.8	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		64.9	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		13400	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		8490	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:48	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		80000	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.497	0.0044	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0012	0.005	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0201	0.0062	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.033	0.0182	0.025	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0087	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0433	0.0159	0.0175	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.132	0.0038	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0516	0.0112	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0906	0.0141	0.015	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.008	0.012	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.05	0.25	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 15:46	3/6/2025 11:51	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		174000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		23600	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:06	3/6/2025 13:06	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		161	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:01	3/5/2025 16:06	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4080	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		56000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		339000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:52	3/5/2025 14:26	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:08	3/10/2025 13:50	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		8	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 11:26	3/6/2025 12:35	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		51.9	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		51.1	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.155	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		276	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		2.34	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		45.5	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		11700	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		7390	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:52	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		67200	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.054	0.0009	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0002	0.001	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0034	0.0012	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.0052	0.0036	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0017	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0554	0.0032	0.0035	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.0169	0.0008	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0088	0.0022	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0116	0.0028	0.003	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.002	0.002	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.009	0.05	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 15:46	3/6/2025 13:03	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		149000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		15400	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 14:07	3/6/2025 14:07	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		132	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:01	3/5/2025 16:10	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4300	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		49000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		268000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:52	3/5/2025 14:28	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:08	3/10/2025 13:52	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		9	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1108-01	Water	Water	03/13/2025 10:53:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1108-02	Water	Water	03/13/2025 11:01:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:34:26	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.192	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	305	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:06:28	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91200	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.411	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0135	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0375	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0445	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0449	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0806	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	23000	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 16:38:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:43:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	6080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60000	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	311000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	95	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:54:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:23:00	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	12	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:52:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.15	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	279	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	45.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	12600	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7660	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:11:51	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	76300	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.257	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0191	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0292	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.321	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0972	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0427	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0635	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	155000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	16700	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 17:56:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	148	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:47:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2620	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	52700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	265000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	189	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:55:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:24:27	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1368-01	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Effluent - Grab	25C1368-02	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 11:58:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.6	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	2.1	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	58.9	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.175	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	299	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	66.7	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14000	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8310	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:40:43	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	88200	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.415	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0194	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0376	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0447	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.121	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0393	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.097	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	194000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	22800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 14:47:00	03/25/2025 14:47:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:10:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	925	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	58300	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	24	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:51:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:09:10	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	16	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 12:16:21	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	20.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	53.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.13	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	282	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	47.3	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12900	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7710	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:45:02	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79800	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.242	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0309	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0325	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.301	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.107	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0377	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0859	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 15:49:00	03/25/2025 15:49:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	155	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:14:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	900	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	53900	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	287000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	31	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:53:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:10:31	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	9	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1894-01	Water	Water	03/25/2025 10:50:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1894-02	Water	Water	03/25/2025 10:52:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	04/01/2025 10:35:00	04/01/2025 13:55:34	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.2	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.9	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.182	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	312	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	81.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	16100	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	9170	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	96700	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.372	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.023	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0436	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0264	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.114	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0146	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0765	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:22:00	03/26/2025 22:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	177000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	23500	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 16:03:00	03/26/2025 16:03:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	170	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 10:59:00	03/28/2025 12:55:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	67100	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	334000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	71	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:11:00	03/26/2025 14:28:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:35:00	03/31/2025 12:38:54	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	5	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	04/01/2025 10:35:00	04/01/2025 14:19:32	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.4	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.132	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	308	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	52.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14500	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8210	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	85500	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.256	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0297	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0417	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.346	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.0918	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.031	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0739	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:22:00	03/26/2025 23:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19400	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 17:04:00	03/26/2025 17:04:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	158	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 10:59:00	03/28/2025 12:59:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	1200	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	60700	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	300000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	299	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:11:00	03/26/2025 14:30:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:35:00	03/31/2025 12:40:34	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0313-01	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D0313-02	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:41:38	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53.4	12.1	25		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	67.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8710	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.424	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0278	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0271	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0388	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.133	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0129	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.113	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 11:51:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 20:38:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:24:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1750	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	65	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:56:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:49:47	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:59:35	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	54.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.232	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	294	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8460	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:56:57	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	79500	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.309	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0428	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.254	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0402	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0955	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	162000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:52:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	21500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 21:39:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	138	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:29:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	310000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	101	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:57:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:51:53	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0731-03	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall- Grab	25D0731-04	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 09:05:00	04/14/2025 15:26:27	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.238	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	290	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.5	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8410	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:46:43	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.45	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0254	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0254	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0343	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	159000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20300	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 14:52:00	04/14/2025 14:52:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 10:22:00	04/11/2025 13:05:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	324000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 09:13:00	04/09/2025 10:29:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:50:00	04/14/2025 15:46:52	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 09:05:00	04/14/2025 15:44:25	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.198	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	280	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8270	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:51:18	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.339	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0332	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.125	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0979	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0319	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22900	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 15:54:00	04/14/2025 15:54:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 10:22:00	04/11/2025 13:09:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	900	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55800	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	321000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 09:13:00	04/09/2025 10:32:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:50:00	04/14/2025 15:48:26	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1314-01	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1314-02	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 11:02:00	04/17/2025 11:59:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8580	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:30:30	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.383	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.016	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0272	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0352	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0284	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0738	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:45:00	04/17/2025 07:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 23:49:00	04/17/2025 19:22:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:48:00	04/17/2025 13:04:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2380	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57600	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 14:32:00	04/16/2025 16:34:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 11:14:00	04/21/2025 12:09:45	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 11:02:00	04/17/2025 12:08:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.138	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	288	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	47.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:34:50	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.406	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0228	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.026	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0926	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0413	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0687	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:45:00	04/17/2025 08:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 00:50:00	04/17/2025 20:24:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:48:00	04/17/2025 13:08:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	153	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 14:32:00	04/16/2025 16:36:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 11:14:00	04/21/2025 12:11:21	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1952-01	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1952-02	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:12:47	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.145	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	304	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:40:20	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.449	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0264	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.037	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0784	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.131	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.1	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24100	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 21:31:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	169	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:10:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	146	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:54:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:22:52	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:30:43	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.132	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	49.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:44:39	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92100	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.372	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0382	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.128	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0341	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.104	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20400	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 22:33:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:15:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1550	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	330000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	107	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:55:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:24:03	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					EK																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:30:02	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.178	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8860	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:30:37	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.44	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0234	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0385	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0196	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0968	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:06:00	05/02/2025 14:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 14:36:00	05/05/2025 14:36:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:44:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	347000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	221	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:15:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:37:21	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:48:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	271	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	21.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8530	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:33:25	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.272	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0314	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.305	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0557	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0278	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0916	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:06:00	05/02/2025 15:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 15:38:00	05/05/2025 15:38:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:49:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	72	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:17:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:38:33	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Blank	25E0114-03	Water	Water	05/01/2025 00:00:00	05/06/2025 13:48:00	05/06/2025 14:54:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AB																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25E0394-01	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25E0394-02	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/12/2025 09:11:00	05/12/2025 12:45:22	BZE0497	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.5	1.2	1.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.8	0.61	1.25	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.188	0.057	0.125	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.4	0.403	0.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13600	48	100	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93200	343	500	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.459	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 12:55:44	BZE0269	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.031	0.063	mg/L	FALSE	NA	5					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0759	0.018	0.025	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0431	0.016	0.018	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.111	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.03	0.011	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26400	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 15:52:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:50:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1200	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 06:20:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 16:53:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	162	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:57:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1000	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTP10279	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:45:30	BZE0270	[CALC]	Hardness AP	SM 2340 B	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55300	199	424	mg/L	FALSE	NA	20					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/09/2025 17:06:00	05/09/2025 17:15:00	BZE0486	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTP10226	FALSE	FALSE	362000	1000	1000	mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 15:11:00	05/07/2025 15:30:00	BZE0317	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTP10267	FALSE	FALSE	89	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 17:13:00	05/07/2025 18:32:00	BZE0336	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 16:35:00	05/12/2025 12:13:42	BZE0288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTP10003	FALSE	FALSE	13	2	5	mg/L	FALSE	NA	1					DD		BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E1680-01	Water	Water	05/20/2025 09:49:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E1680-02	Water	Water	05/20/2025 09:50:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:15:13	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	277	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:37:45	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.6	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8280	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94400	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:17:02	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0515	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0434	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.028	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	187000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26700	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/27/2025 11:11:00	05/28/2025 15:59:00	BZE1226	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	201	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 10:56:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58100	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	335000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:10:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:42:09	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:33:11	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.16	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	270	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:42:56	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.46	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	18.8	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13300	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7880	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.6	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90300	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.31	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:19:46	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0535	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.182	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0304	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.121	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	173000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	06/02/2025 16:07:00	06/02/2025 16:07:00	BZF0074	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 11:00:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55500	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	64	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:13:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:44:08	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E2428-01	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E2428-02	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:09:51	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.8	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8600	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:33:52	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.48	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0359	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0298	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.215	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	183000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 18:19:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	179	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:23:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	91	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:19:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:18:54	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:27:48	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	31.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	2.4	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8480	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.3	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:37:12	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.323	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:51:50	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.124	0.25		mg/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0344	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.141	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0548	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:00:37	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.264	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	181000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 19:41:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	170	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:27:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	326000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	98	8	10		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:21:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:20:24	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F0273-01	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F0273-02	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/08/2025 10:58:00	06/08/2025 13:33:46	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.2	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	5.2	1.2	1.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.185	0.057	0.125	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.4	0.403	0.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	48	100	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8390	171	250	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.3	4.2	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96700	343	500	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.423	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0208	0.006	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0299	0.018	0.025	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.04	0.016	0.018	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.125	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0152	0.011	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.238	0.014	0.015	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24300	247	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/09/2025 15:09:00	06/09/2025 22:06:00	BZF0423	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	140	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:57:35	BZF0173	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57100	199	424	mg/L	FALSE	NA	20					TM																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/05/2025 10:33:00	06/05/2025 16:00:00	BZF0250	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/06/2025 15:36:00	06/06/2025 16:00:00	BZF0366	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	175	8	10	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 15:24:00	06/05/2025 11:36:00	BZF0213	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					KC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 17:30:00	06/09/2025 15:14:40	BZF0221	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5	mg/L	FALSE	NA	1					EK																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1263-01	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1263-02	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:19:00	06/16/2025 11:48:26	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.142	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	62.3	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8510	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 11:50:38	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.6	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.187	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0286	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0404	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.218	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.024	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.729	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/17/2025 13:27:00	06/18/2025 03:45:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	181	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/20/2025 12:41:00	06/21/2025 10:19:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	359000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	121	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 13:51:00	06/13/2025 16:57:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:50:00	06/18/2025 14:23:42	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:19:00	06/16/2025 12:06:24	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.9	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.125	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.69	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8490	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 11:53:42	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.377	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.15	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0434	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.201	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.312	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0429	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.705	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	177000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24700	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/17/2025 13:27:00	06/18/2025 04:46:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/20/2025 12:41:00	06/21/2025 10:24:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	264000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	117	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 13:51:00	06/13/2025 16:58:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:50:00	06/18/2025 14:26:31	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/24/2025 12:49:00	06/24/2025 14:13:08	BZF1193	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.3	9	20		ng/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.6	1.2	1.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	56.9	0.61	1.25		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	65.2	0.403	0.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14600	2.4	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8470	8.6	12.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:29:22	BZF0995	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	101000	343	500		mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.541	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.185	0.006	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	ND	0.018	0.025		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0377	0.016	0.018		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.162	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.763	0.014	0.015		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:20:00	BZF0892	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27500	247	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/21/2025 00:36:00	06/21/2025 00:36:00	BZF1067	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	0.5	1		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 12:41:00	06/21/2025 10:25:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 10:51:00	06/20/2025 15:51:27	BZF1046	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60700	11.7	33.1		mg/L	FALSE	NA	1					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 11:01:00	06/20/2025 11:40:00	BZF1048	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	356000	1000	1000		mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 14:23:00	06/18/2025 15:30:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	ND	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:31:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/18/2025 14:23:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:34:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1492-02	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/23/2025 14:05:17	BZF0929	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1492-03	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1492-04	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25F2188-01	Water	Water	06/24/2025 09:20:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	6	7		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25F2188-02	Water	Water	06/24/2025 13:36:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/01/2025 09:00:00	07/01/2025 11:21:23	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	295	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:22:22	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	112000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.58	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.25	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0348	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.137	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.817	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 02:01:00	06/26/2025 02:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 21:34:00	06/25/2025 21:34:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:56:00	07/03/2025 15:42:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2400	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:33:00	06/25/2025 18:11:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 15:19:00	06/30/2025 15:11:11	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/01/2025 09:00:00	07/01/2025 11:39:20	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	0.85	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8450	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:24:58	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	110000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.42	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.04	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.168	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0125	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.813	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 03:01:00	06/26/2025 03:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 22:35:00	06/25/2025 22:35:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:56:00	07/03/2025 15:46:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	8	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:33:00	06/26/2025 12:59:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 15:19:00	06/30/2025 15:13:06	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G0181-01	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G0181-02	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:19:52	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.202	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	316	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8960	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:50:26	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	95400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.609	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0259	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.038	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.908	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 15:17:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	176	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:47:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 17:59:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:06:50	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:37:50	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	13.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8500	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	9.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:53:15	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.483	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.224	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0383	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.209	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.2	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.933	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 16:18:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:52:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	259000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 18:01:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:09:03	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:40:34	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.18	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	289	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	61.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8050	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.1	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:16:07	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.361	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0988	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0582	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0392	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.139	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.078	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.506	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 02:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 16:52:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:22:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2300	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	40	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:04:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:57:20	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:58:32	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	51	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.135	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	281	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7950	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:20:41	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	97200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.26	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0891	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0496	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.26	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.192	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0756	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.512	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 17:54:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:29:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	54700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	6	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:06:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:59:04	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1035-03	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1035-04	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:30:22	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	211	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.342	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	319	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8230	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93900	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.464	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0594	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0467	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0353	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0464	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.37	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 04:04:00	07/17/2025 04:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	188000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 17:10:00	07/16/2025 17:10:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:16:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1600	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60500	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	349000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:22:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:07:23	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:48:20	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.288	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7830	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.367	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0523	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0583	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.159	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0645	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0536	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.316	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 05:04:00	07/17/2025 05:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 18:12:00	07/16/2025 18:12:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:21:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2100	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	36	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:24:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:09:40	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1349-03	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	6		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1349-04	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25G2495-01	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25G2495-02	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 12:45:40	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	327	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	70.9	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15600	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9650	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:02:00	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	103000	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.516	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0592	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.035	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.036	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.111	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.473	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	189000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 11:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28100	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 16:01:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	190	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:06:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2500	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64900	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	10	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:14:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:38:58	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 13:03:37	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	30.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.8	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.172	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	307	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.3	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8690	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	8.7	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:14:56	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94900	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.346	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.061	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.161	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0852	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.431	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 17:03:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:10:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58600	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	305000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	19	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:16:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:40:12	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H0713-01	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H0713-02	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	310	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	74.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8900	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:28:50	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.588	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.153	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0367	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0316	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0239	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.698	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:06:35	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/14/2025 23:39:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:20:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1500	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:48:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:51:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.4	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.04	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	9.33	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:31:26	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.145	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.044	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.221	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0351	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.647	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:11:51	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/15/2025 00:40:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	163	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:24:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:51:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:53:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H1074-01	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H1074-02	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:15:00	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.9	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	65.5	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.195	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	325	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9140	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:20:09	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	104000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.507	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0676	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0339	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.142	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0354	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.459	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:01:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 13:43:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	363000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:12:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:08:58	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:32:58	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	318	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	16.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:24:43	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.326	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0619	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0444	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.166	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.027	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.436	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	179000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:21:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 14:07:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	62700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	355000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	14	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:14:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:12:09	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

APPENDIX C

Biota Monitoring Report

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Microbial analyses at the Waterleaf Resources pilot plant, Great Salt Lake, Utah

This reports presents data from an analysis of the microbial communities in the brine flowing into the plant, "influent," and the post-extraction brine that is in a holding tank before being released back into the lake, "effluent." The research question at hand is: ***what is the impact of introducing post-extraction effluent into the Great Salt Lake north arm.*** This analysis includes microscopy, genomic surveys, and inoculation experiments to measure growth in the laboratory.

Sampling:

Influent and effluent samples were obtained at the Utah Waterleaf Lilac facility on February 28, April 24, and June 24, 2025 (Figure 1). At each timepoint, 100 ml each were collected for laboratory analysis.



Figure 1. Samples were taken from the north tank for influent brine (valve circled in yellow) and the south tank for effluent (valve circled in red).

In addition,100 ml of brine from each sample were filtered through a sterile PVDF membrane pressure filter unit, pore size 0.22 µm, which captures all the cells present in the microbial communities of the brine. The filters were used to extract DNA and create the sequencing libraries (Figure 2).



Figure 2. North arm brine from the influent tank and post-extraction effluent brine were filtered separately through a PVDF membrane cartridge to collect all cells in the sample. These filters were subsequently used to isolate DNA with a DNA extraction kit (QIAGEN, Venlo, Netherlands).

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Biomass:

The relative biomass of aquatic communities can be assessed by centrifuging at high speeds to force cells to the bottom of the tube. I centrifuged 1 ml of the influent (I) sample and 1 ml of the effluent (E) sample at each sampling. These tubes were allowed to dry for two days. The dry weight was measured. I was unable to do this properly at the February sampling since I did not see a cell pellet in the effluent, only rust flakes, which likely came from corrosion of the holding tank and affected the dry weight. The other samples, however, yielded reliable data, and there were no rust flakes present. The April influent pellet was 3.7 mg of dry mass per milliliter of brine, and the effluent pellet was 4.5 mg per milliliter. The June influent pellet was 5.2 mg of dry mass per milliliter of brine, and the effluent pellet was 4.2 mg per milliliter. All were pink in color, which indicated that halophilic bacteria, archaea, and/or algae (all of which contain carotenoid pigments) were present in abundance in both (Figure 3). ***This colorful cell pellet was a good sign that there was a healthy population in the effluent.***

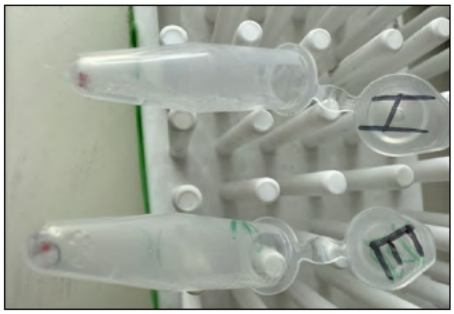


Figure 3. From the April samples, 1 ml of the influent (I) and effluent (E) were separately centrifuged to pellet the cells in the sample, which were both pink in color, indicating an abundance of halophiles (salt-tolerant bacteria and archaea have carotenoid pigments that make the cells pink).

Cell Counts:

Another way to assess biomass is to count the individual cells. Using a hemacytometer, which provides a grid and special cover glass to control the distributed volume, I estimated the cell density in each of the samples (e.g. Figure 4).

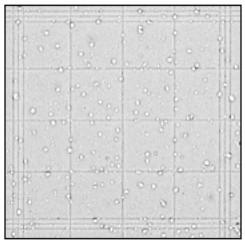


Figure 4. February influent sample on a hemacytometer. Note the grid that allows one to quantify the cells/ml. The cells are translucent but reflect light. They appear as small reflective orbs.

The results are shown in Table 1. The first samples from February demonstrated a robust cell density in the influent sample, but the effluent had very few if any visible cells. It's possible that the cell density was not zero, just low and not detectable by these methods. The April sampling had comparable numbers of cells in the effluent as the influent, the cells per milliliter counts were in the billions. The June samples also showed similar numbers for influent and effluent but higher cell counts.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Table 1. Cell counts by hemacytometer for each sampling

Sampling Date	Influent	Effluent
February 28, 2025	2 x 10^8 cells per ml	None detected, rust flakes present.
April 24, 2025	3.6 x 10^9 cells per ml	4.6 x 10^9 cells per ml
June 24, 2025	8.1 x 10^9 cells per ml	5.3 x 10^9 cells per ml

Note the values for April and June are higher at these warmer sampling times likely because the increased temperature supported microbial growth in the brine. The optimal temperature of GSL microorganisms is typically around the same as human cells, 37°C. ***Most importantly, the lithium extraction procedure did not reduce the cell count or have adverse effects on the cells.***

Given the intrusion of rust flakes and the results of the biomass and microscopy assays for the February sampling, I focused on the April and June samplings for addressing the question regarding impact on the extraction process on the microbial community.

Microbial Diversity:

In the GSL north arm, prior studies have revealed evidence for microorganisms in all three domains of life (Figure 5). The eukaryotes have nuclei and a higher-level organization; we typically see low levels of algae and fungi in the hypersaline brine. The prokaryotes have a simpler cell structure, such as salt thriving bacteria. The most prevalent domain in the north arm is archaea, which are abundant in all extreme environments on Earth (Baxter and Zalar, 2019; Ameida-Dalmet and Baxter, 2020).

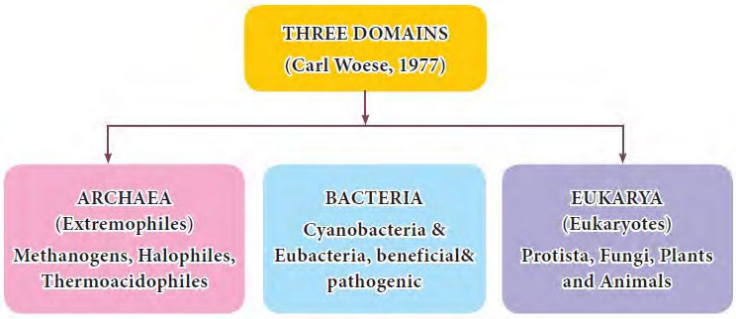


Figure 5. The three domains of life are all represented in the microbial diversity of Great Salt Lake.

To examine the microbial diversity of the influent and effluent, I wanted to sequence all the DNA from the onsite filtration described above. The microbial cells in the brine adhere to the sampling filters while the liquid is pumped through. After filtration, I froze the filters in a dry ice bath so that no degradation would occur, and the samples could be transported back to the lab for extraction. Under sterile conditions, the filter casings were cracked, and DNA was extracted from each membrane. This pool of DNA is derived from all of the life forms in the water sample. The next step is to figure out the species of life that are present. For this I used a consulting lab for

DNA sequencing. They amplify genes (16S rRNA, 18S rRNA, or ITS) associated with either bacteria, archaea, algae, or fungi. The DNA in the regions targeted is very specific, and this allows us to see "who" is present in the community and in what relative abundance. I analyzed the genetic data by first running a programming script that we developed in my lab to prune out any contaminants present in the controls and to connect to a taxonomic database to assign their phylogenetic classification. From here we can produce charts that help in visualizing the data.

Although the February effluent I analyzed did not seem to have cells (by microscopy nor a cell pellet), there were DNA signatures of microorganisms. This could be because the cells were in small numbers and therefore escaped the less sensitive methods, or it could be because there are biosignatures; the DNA from dead cells adhered to the filter but no intact cells did. A quick review of the prokaryotes in these samples indicate a similar community profile in the effluent when compared with the influent community e.g. the most prominent members of the community were common to both data sets.

The cell counts suggested that the April sampling would provide an excellent data set for sequencing analysis. I have confidence in the comparison between influent and effluent communities, and therefore, I have analyzed the April sample species composition below. The prokaryotes were split into bacteria and archaea for visual simplicity. The eukaryotic primers that would reveal algae species gave no hits (apart from plants that were blown in from the surrounding steppe), so there is no chart representing algae for April. We do know of two species that are present in the north arm, but in low numbers and only in warmer temperatures. Fungi require specific primers for reliable sequencing, so they were probed separately. Below I present the taxonomic profiles for each category of microorganisms. I have aligned the data for ease of comparison of the influent versus the effluent (Figure 6).

Archaea. Many of Earth's extremophiles fall in the category of Archaea, simple prokaryotes that look like bacteria but are genetically distinct. These make up the bulk of the Great Salt Lake north arm microbiota as shown in past studies (Baxter and Zalar, 2019; Almeida-Dalmet and Baxter, 2020). In this experiment, ***The difference between the Waterleaf influent and effluent genera present is negligible*** (Fig. 6, top panel).

Bacteria. In past work, because archaea are more typical in extreme environments, we were surprised to find robust bacterial communities at the north arm (Almeida-Dalmet and Baxter, 2020). ***In the Waterleaf samples, the bacterial genera present were also similar between the influent and effluent*** (Fig. 6, middle panel). Note the bacteria (and archaea) that are present in small abundance, towards the bottom of the graphics, are likely small in number because they prefer more moderate salinity and are introduced by the south arm water. The north arm salinity may suppress their growth.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Fungi. Recently my lab has explored the fungal species of the Great Salt Lake north arm (Parrott and Baxter, 2024). The Internal Transcribed Spacer (ITS) segment is widely used as a universal fungal barcode because of its variability between species. In the Waterleaf experiment, this marker revealed only a few species and different yeast taxa present in the influent and effluent (Fig. 6, bottom panel). Some of these species, in our prior study, have been associated with plants, soils or animals from the surrounding landscape. For example, *Alternaria* and *Cryptococcus* were discovered in the plant soil microbiomes Because the spores of fungi can become airborne, wind can introduce spores to the brine. ***The differences in the fungi present in the Waterleaf influent and effluent are likely not important with regards to the ecosystem since these species do not play a role in nutrient cycling.***

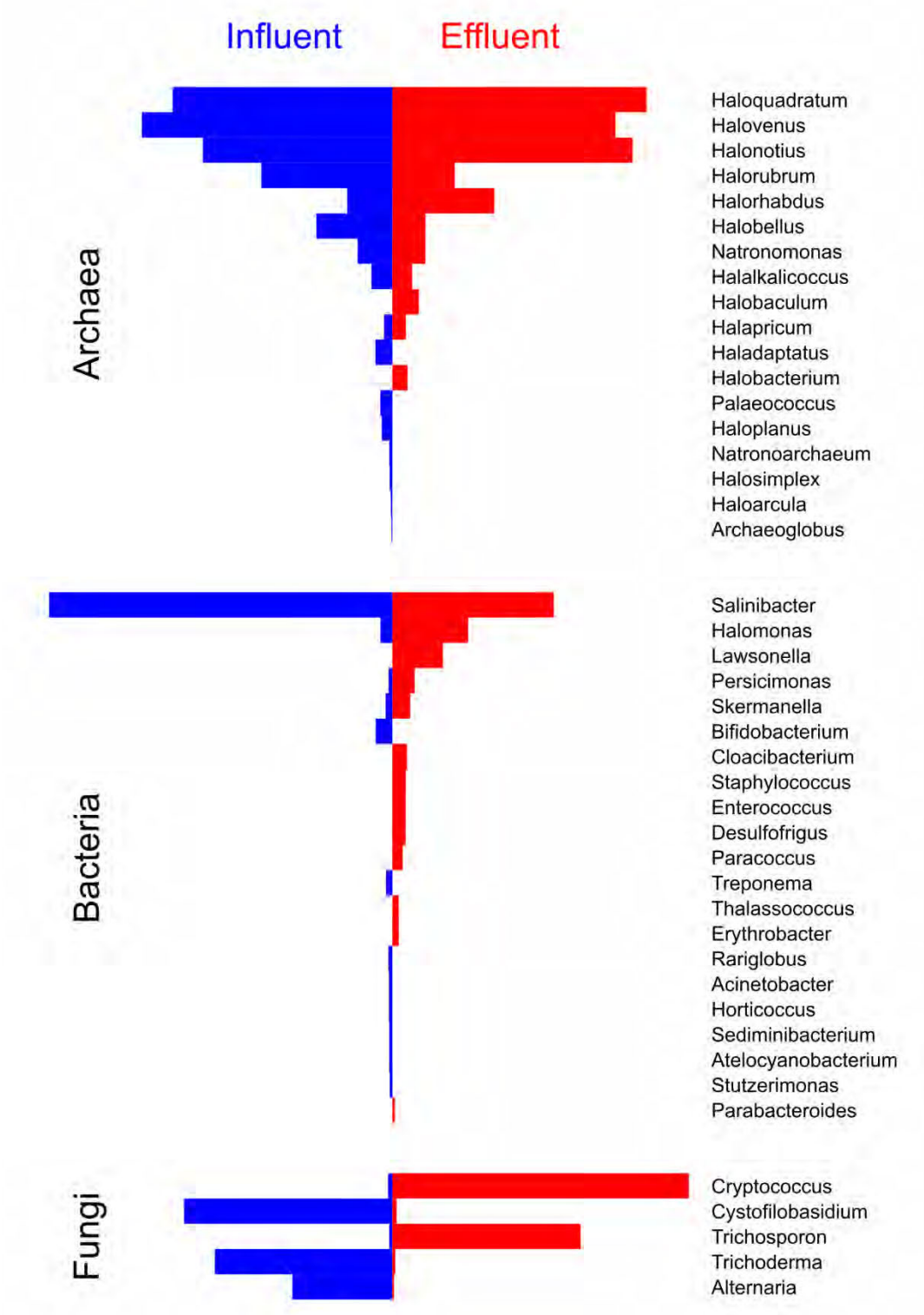


Figure 6. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Inoculation Experiment:

In order to probe more deeply into the potential impacts of discharging the effluent into the Great Salt Lake north arm, I performed a time course growth experiment, growing either influent, effluent, or a mixture. Optical density measurement at a light absorbance of 600nm (A_{600}) is a common methodology in microbiology for following growth of a culture over time (e.g. Stevenson et al. 2016). The cells absorb light at this wavelength, and so the concentration of microbes is proportional to the light absorbed. I used a spectrophotometer to measure the optical density over time, which allows us to see the growth curve of the population as the cells grow and divide. Since the initial levels of microorganisms are very low (and non-existent in the sterile water blank control), this is called the "lag phase." As the population starts to double rapidly, you can see logarithmic growth for some species "log phase." Beyond these phases, the bacterial population will stabilize and then decline. Figure 7 shows a standard growth curve for lab model microbes; we would expect slower growth in environmental organisms.

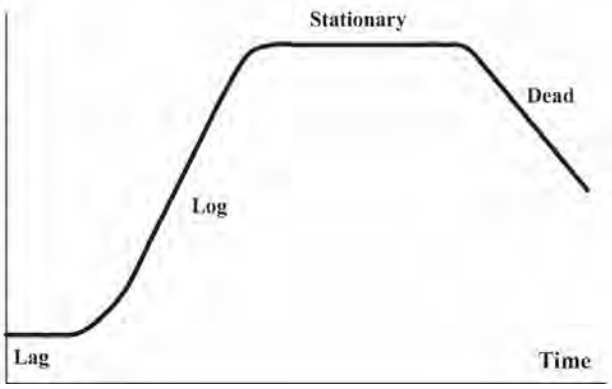


Figure 7. A textbook growth curve to show the expected phases of bacterial proliferation. My goal was to plot log phase in the samples and examine if introducing effluent to influent communities had an impact.

I attempted a couple of early trials to work out conditions, and this revealed that the experiment moved too slowly without growth media to enhance growth rates. The protocol that gave the best results for our timeframe was inoculating 9 ml of 23% salt MGM media (Dyall-Smith, 2025) with 1 ml of sample. The samples were 1) sterile deionized water serving as a control, 2) influent, 3) effluent, 4) a 50:50 mixture of effluent and influent. I did this experiment with brine from all three sampling dates. In each experiment, I used the control as a blank to set the optical density to zero. Thus, any absorbance observed was due to cells proliferating.

In Figure 8, the top panel shows growth curves featuring the February samples inoculated. The influent sample, which was rich in microorganisms, displays a typical growth curve, with a short lag phase, followed by fast growth, and then the beginnings of a plateau (orange line, top panel). The effluent (green line, top panel) by contrast, has delayed growth, but it does appear to have a low-density community that begins to take off albeit slowly. The mixture has a middle of the road growth curve (light blue line, top panel), which means that nothing in the effluent is inhibiting the growth of the microbes in the influent.

The middle panel of Figure 8 represents the growth curves of the April samples and the bottom panel is June. ***All of the samples from the April and June samplings follow a standard growth curve***. The microbial communities appear to have just reached stationary phase over this period of study. This is expected of healthy cultures. Also to note, ***mixing effluent and influent had no visible impact on growth***.

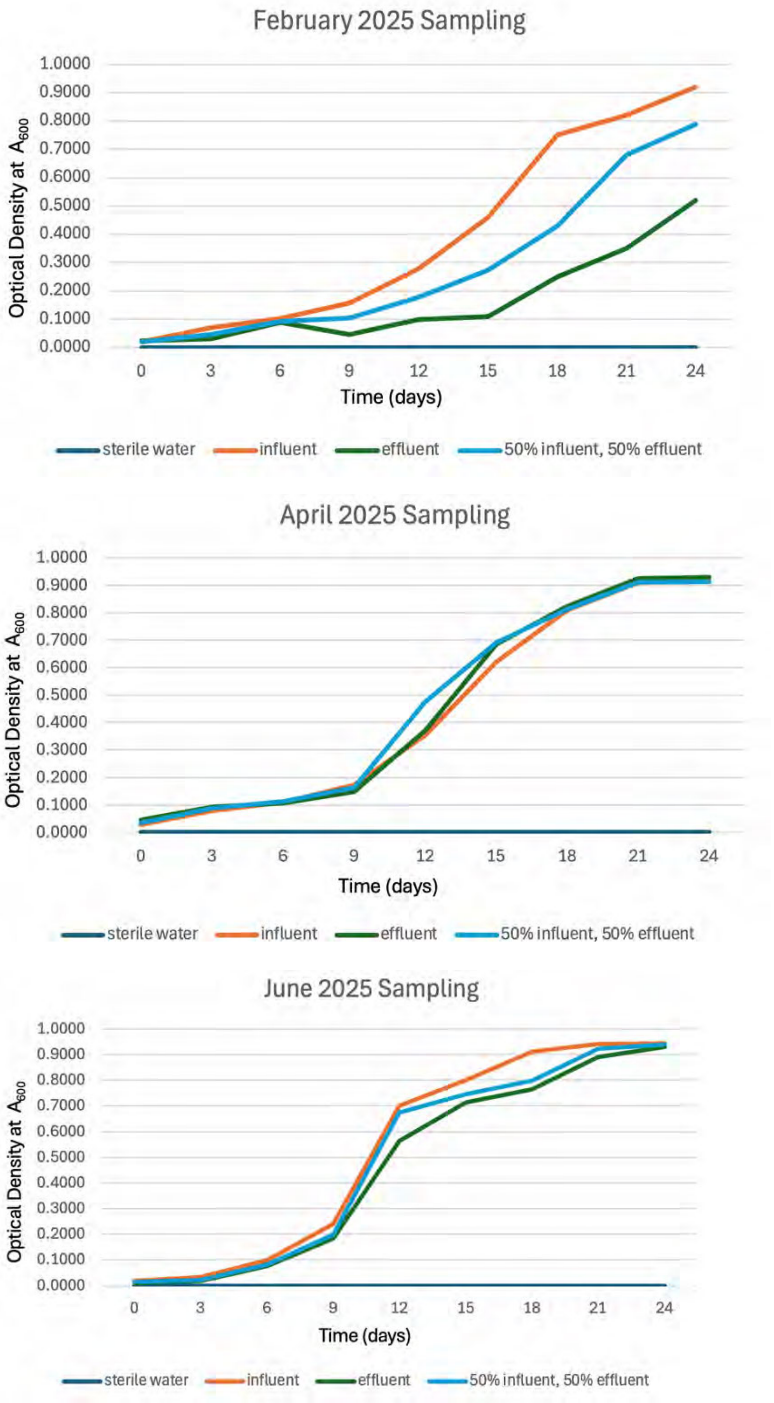


Figure 8. The top panel represents the February sampling at Waterleaf while the middle represents April and the bottom represents June. The sterile water inoculation control, dark blue, served as a blank for the optical density measurements at A600 and showed no contamination in the experiment. The influent samples are shown in orange, the effluent in green, and the 50:50 mixture in light blue.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Algae Experiments

In the February and April samples, there was no evidence for the presence of algae. I did not see the larger distinctive cells in the microscopy examinations nor the signature for them in the DNA sequencing for microbial diversity. This is not unusual as the main algae species of the north arm, *Dunaliella salina*, blooms in the warm summer months (Baxter and Zalar, 2019). These eukaryotes do photosynthesis for the lake, accumulate glycerol to balance the inside of the cell with the outside hypersaline water, and make pigments to mediate cellular damage from the extreme environment (Figure 9). Despite being a seasonal participant, they are a key player to supplying nutrients to the north arm microbial community.

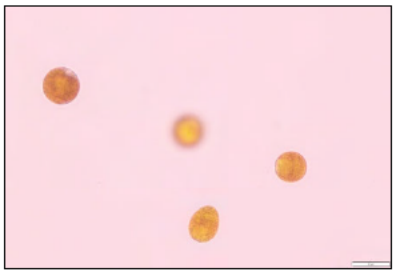


Figure 9. GSL north arm *Dunaliella salina*, a prevalent algae species in the summer months at Rozel. Beta carotene gives them the notable orangish color. A 20 micron scale bar is indicated in the lower right corner. Prokaryotes (bacteria and archaea) are typically only 1-2 microns, for comparison.

In the June sampling, I wanted to examine the impact of effluent on *Dunaliella salina* in the brine. For the DNA sequencing, I probed the broad categories of prokaryotes and eukaryotes. For this experiment, there is no need to distinguish between archaea and bacteria amongst the prokaryote signals and it was not important to track fungi separately amongst the eukaryotes. ***In future experiments for monitoring at this site, this streamlined approach would offer an option for routine checks.*** The results are shown in Figure 10.

The DNA sequencing surveys of the prokaryotes in the influent versus effluent shows the same pattern as before (Figure 6), making this a good control for standardization. The species distribution of the influent are preserved in similar abundances in the post-extraction effluent (Figure 10, top panel). These prokaryotes represent small archaea and bacteria, only ~1-2 microns, which are not filtered in the lithium extraction process. The *Dunaliella salina* algae are high in abundance in the influent as predicted for the summer season, but they are lacking in the effluent (Figure 10 bottom panel). ***These algae are much larger, ~10-20 microns, than the prokaryotes and were likely filtered in the early filtration step of the mineral extraction process.*** Note the small signal of *Dunaliella* in the effluent; this is likely from DNA released from dead cells in the environment, and these molecules would pass through filtration.

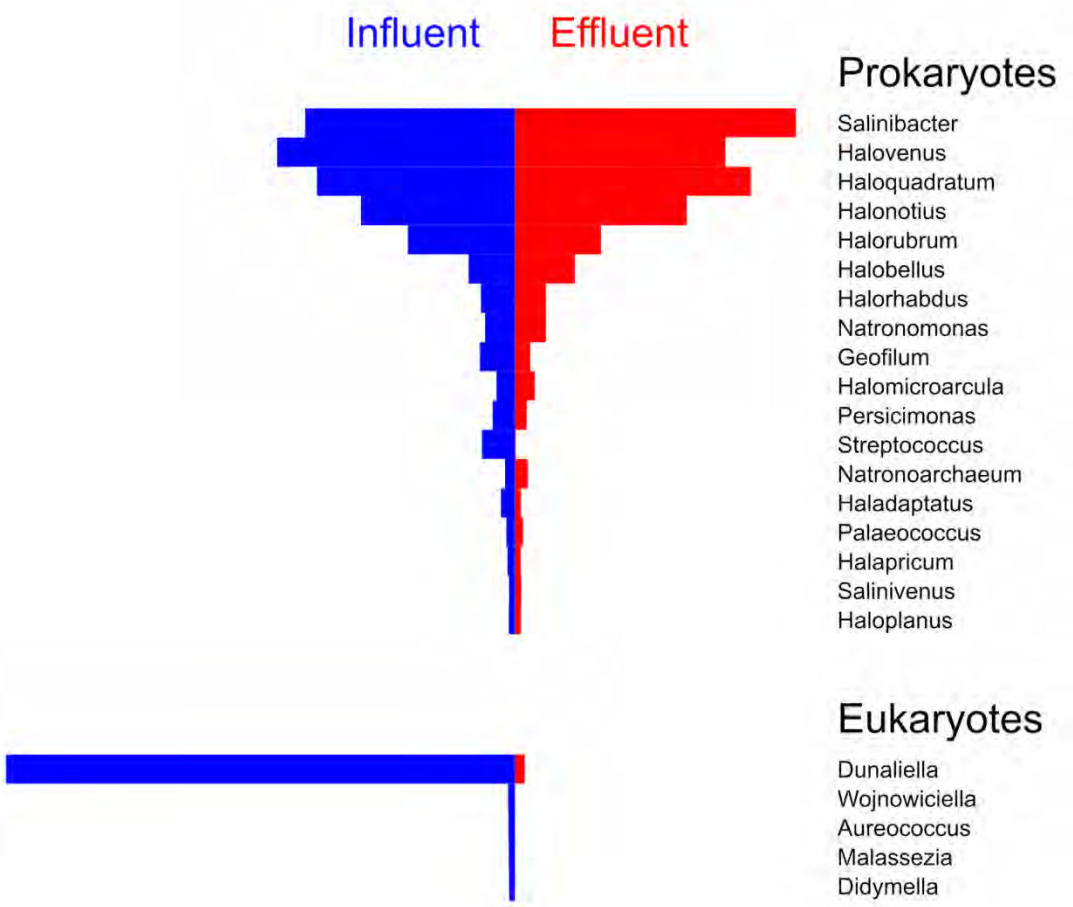


Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Conclusions:

Is the extraction process changing the microbial community?

- The biomass analysis (Figure 3), cell counting (Table 1), and DNA sequencing (Figure 6 and 10) demonstrate that the extraction process is allowing prokaryotic microorganisms to remain in and survive in the effluent.
- The inoculation experiment (Figure 8) demonstrated that the effluent brine population is as healthy as the influent. There is no evidence of a longer lag time in the growth curves and they approach log phase at the same rate.
- The archaea and bacteria genera composition and abundance measures are remarkably similar between the influent and effluent (Figures 6 and 10), suggesting the survival/recovery of the microorganisms following the lithium extraction process.
- The fungi, however, have a different composition post extraction (Figure 6). There are only a few species that emerged in our study, but they are different in the influent versus the effluent. Since fungi have amazing dispersal mechanisms, the origin of the fungi we observed may have been introduced from the surrounding landscape, given the species present. There is no need to track fungi for surveying the health of the lake ecosystem.
- Algae were absent in both February and April samples, likely due to time of year. In the June sampling, the *Dunaliella salina* summer bloom was detected in the influent. However, filtration in the lithium extraction process appears to remove the *Dunaliella salina* as it is not present in the effluent (Figure 10).

Would the introduction of effluent to lake brine have impacts on the native biota?

- The inoculation experiment, where the influent and effluent are mixed 50:50, is a proxy for modeling the recovery of the microbial community after discharge. There is no evidence of negative impacts in the 50:50 mixed sample (Figure 8).
- Although the filtration step in the lithium extraction process may remove the *Dunaliella salina*, the absence of algae in the effluent should not be a problem when the effluent is discharged to the lake. The microbial community is not impacted by the introduction of effluent in the inoculation experiments (Figure 8).

Recommendations for future monitoring of the microbial communities:

- Fungal signatures are introduced from the environment and are not valuable for this study. Monitoring of fungi going forward is not necessary.
- Most of the microbial community in the north arm are mesophiles, meaning they are more prolific at moderately warm temperatures, optimal 20 to 45 °C (68 to 113 °F). Summer sampling is recommended for future monitoring efforts, and this approach would also allow you to see the bloom of *Dunaliella salina*.
- Continual monitoring the prokaryotes (the most prolific life forms) would give a nice benchmark for microbial commnunies surviving in the effluent. Any changes in process, scale up, or seasonal impacts could be followed over time.

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APPENDIX C

Level II Antidegradation Review

Level II Antidegradation Review

Great Salt Lake Phase 1 Lithium Extraction Project

In support of UPDES Industrial Permit UT0026280 modification

Box Elder County Utah

March 13, 2026

Contents

1 Background 1
1.1 Purpose 2
1.2 Contents of Submittal 2
2 Proposed Project 2
2.1 Project Description 5
3 Standards for Receiving Waters 7
3.1 Beneficial Uses 7
3.2 Water Quality Standards 7
3.3 Impaired Waters 8
3.4 Antidegradation Category of Receiving Water 8
4 Social, Environmental, and Economic Importance 8
4.1 Social and Economic Benefits 9
4.2 Social, Economic, and Environmental Losses 10
4.3 Supporting Information from Affected Communities on Preserving Assimilative Capacity 11
4.4 Structures or Equipment That Would Be Placed in or adjacent to the Receiving Water 11
5 Parameters of Concern 12
5.1 Potential Parameters of Concern – Water Quality Parameters 12
5.2 Ranking and Weighting of Parameters of Concern 13
6 Alternatives Analysis 14
7 Additional Alternative Analysis 14
8 Optional Public Notice 14
9 Optional Information 14
10 Summary and Conclusion 15
11 References 16

Tables

Table 1. Beneficial-use Classes for Gunnison Bay 7

Figures

Figure 1. GSL and the Proposed Project Site 4
Figure 2. Commercial Plant Facility Plan 6
Figure 3. Commercial Plant Process Schematic 6

Appendices

A Final Monitoring Report, Waterleaf Resources Demonstration Project
B Waterleaf Phase 1 Groundwater Well Quality Memo
C Microbialite Survey

Abbreviations

303(d)	Section 303(d) of the Clean Water Act
ADR	Antidegradation Review
DLE	direct lithium extraction
FFSL	Utah Division of Fire, Forestry and State Lands
gpm	gallons per minute
GSL	Great Salt Lake
IX	ion exchange
LCE	lithium carbonate equivalent
Li	lithium
mgd	million gallons per day
NGVD 1929	National Geodetic Vertical Datum of 1929
No.	number
POC	parameter of concern
UAC	Utah Administrative Code
UDWQ	Utah Division of Water Quality
UPDES	Utah Pollutant Discharge Elimination System
WSE	water surface elevation

1 Background

Waterleaf Phase 1 LLC (Waterleaf Resources) is proposing to extract lithium from the Great Salt Lake (GSL) by constructing and operating the Phase 1 Lithium Project (Commercial Plant). The Commercial Plant is a processing facility that will extract lithium using a proprietary ion-exchange (IX) direct lithium extraction (DLE) process. This proprietary IX technology is a nonconsumptive, nonevaporative process. This means that all GSL brine withdrawn will be discharged back into the GSL, and open waters will not be depleted.

In September 2023, Waterleaf Resources submitted a Clean Water Act Section 402 Utah Pollutant Discharge Elimination System (UPDES) application (Waterleaf Resources 2023) to the Utah Division of Water Quality (UDWQ) for authorization to discharge effluent from the Demonstration Plant. In addition, the GSL Mineral Extraction Facility Operator Application was submitted to authorize operation of the Demonstration Plant by rule (Waterleaf Resources 2024). The UPDES permit was issued for the Demonstration Project on February 4, 2025 (UPDES Minor Industrial Permit No. **UT0026280**), which included the GSL Mineral Extraction Facility Operator Application Approval by Rule.

Waterleaf operated a Demonstration Plant for 28 weeks in 2025 to validate the IX DLE technology. In accordance with the UPDES permit and the GSL Mineral Extraction Facility Operator Application Approval by Rule, weekly influent and discharge flows were sampled, analyzed, and reported. In addition to compliance monitoring, Waterleaf conducted a Demonstration Plant Biota Study (Baxter 2025) to examine the presence and abundance of North Arm biota (archaea, algae, bacteria, and fungi) in the influent and discharge flows. The data and information gathered during operation of the Demonstration Plant will provide scientific evidence to support Commercial Plant discharge and operation permitting applications. Chemistry and biota monitoring are summarized in the *Waterleaf Resources GSL Demonstration Plant Final Monitoring Report* (Appendix A).

This Level II Antidegradation Review (ADR) is being submitted along with a UPDES modification application to UPDES Permit No. UT0026280. In addition to the UPDES Permit modification application, a GSL Mineral Extraction Facility Operator Application is submitted to UDWQ under separate cover.

1.1 Purpose

Waterleaf is submitting this Level II ADR to support its modification of the Section 402 UPDES Permit No. UT0026280 dated February 4, 2025, which will authorize a new discharge of effluent from the Commercial Plant into Gunnison Bay (the North Arm of the GSL) in Box Elder County, Utah.

ADRs are required as part of the discharge permitting process for any action that has the potential to degrade water quality. The Level I ADR is completed as part of the UPDES application modification and requires a Level II analysis to document that the proposed operation of the Commercial Plant will maintain the recreation and wildlife beneficial uses of Gunnison Bay of the GSL and is consistent with the State of Utah's antidegradation policies.

What are beneficial uses?

Lakes, rivers, and other water bodies have uses to humans and other life. These uses are called beneficial uses.

1.2 Contents of Submittal

Waterleaf has prepared this Level II ADR resubmittal to be consistent with the UPDES application for the Commercial Plant to demonstrate consistency with the State of Utah's antidegradation policy. The following topics are discussed in this submittal:

- Proposed project
- Standards for receiving waters
- Social, environmental, and economic importance
- Parameters of concern
- Alternatives analysis
- Public notice
- Certification

This submittal contains the following additional information:

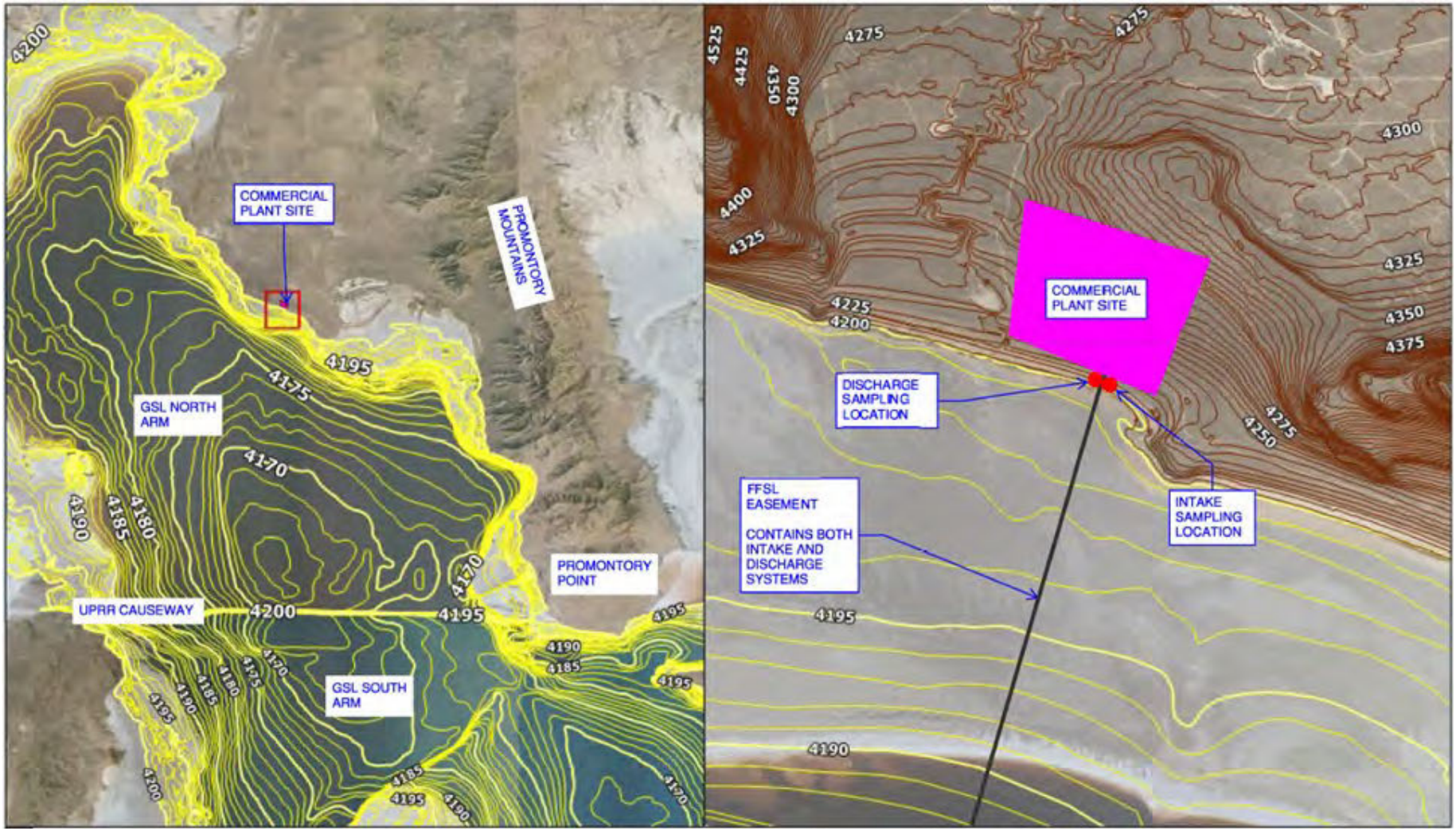
- The data and information gathered during operation of the Demonstration Plant will provide scientific evidence to support Commercial Plant discharge and operation permitting applications. Chemistry and biota monitoring data are detailed in the *Final Monitoring Report* (Appendix A).
- The results of a desktop review of federal and state standards and guidelines pertaining to manganese concentrations in lakes that are protected for recreation beneficial uses are provided in the Manganese Risk Evaluation Memorandum (Appendix B).

2 Proposed Project

The Commercial Plant is a processing facility that will extract lithium using a proprietary IX DLE process. This proprietary IX technology is a nonconsumptive, nonevaporative process. This means that all GSL brine withdrawn from Gunnison Bay will be discharged back, and Gunnison Bay's open waters will not be depleted. The Commercial Plant will

be located adjacent to Gunnison Bay (North Arm) of the GSL on the western slopes of the Promontory Mountains in Box Elder County, Utah (Figure 1).

Figure 1. GSL and the Proposed Project Site



2.1 Project Description

The Commercial Plant will have an annual production capacity of up to 5,000 tons per annum of lithium carbonate equivalent (LCE), the final saleable lithium product. To meet this production goal, a design flow of about 11,300 gallons per minute (gpm) or 16.27 million gallons per day (mgd) of brine will be withdrawn from Gunnison Bay. In addition, about 150 gpm of groundwater will be withdrawn and added to the process operation and subsequently discharged to Gunnison Bay with the lithium-depleted brine. In total, Waterleaf assumes a designed discharge rate of 16.49 mgd. The UPDES modification will permit a maximum discharge rate of 20 mgd. The Commercial Plant will be designed to operate 24 hours a day, 7 days a week, and 52 weeks a year for 20 years. A facility plan and schematic of the process design are provided in Figure 2 and Figure 3.

The commercial facility footprint will be about 5 acres and will consist of the following general process steps/infrastructure:

- **Intake.** GSL North Arm brine will be pumped from the GSL to a lined influent (feed) brine surge pond. The intake pipeline will extend from the Commercial Plant to the GSL meander line and will then be located on the lakebed to a lakebed elevation of about 4,185 feet mean sea level (MSL) (NGVD 1929) within the Utah Division of Forestry, Fire and State Lands (FFSL) easement. The intake system will be driven by a suction pump station, which will have a design flow rate of 11,300 gpm and will be located near the open water shoreline. Influent flow and water quality monitoring will occur at the pump station.
- **Filtration.** Influent brine will be piped from the feed brine surge pond and filtered through a two-stage system, consisting of primary and polishing filter screens, to remove suspended solids.
- **Ion Exchange.** After filtration, the brine will be sent to the IX DLE equipment, where lithium will be selectively extracted. Groundwater (externally sourced groundwater treated by reverse osmosis) will be added to the intake brine as a washing agent in the extraction process. pH adjustment to meet UPDES permit conditions may be required based on influent brine characteristics. Eluate (lithium-rich water) will be separated and piped through a side-stream process to produce LCE, the final commercial product. The eluate flow will not be discharged to the North Arm of the GSL.
- **Filtration and Clarification.** The depleted brine, including the groundwater, the reverse osmosis waste stream, and recirculated wash water, will be conveyed to the post-process solids-removal equipment and then into a depleted brine pond. Solids removal will include filtration, flocculation, and clarification. Residual solids will be managed and disposed of off site. Depleted brine will be pumped from the depleted brine pond to the outfall infrastructure.
- **Discharge.** The outfall pipeline will extend from the Commercial Plant to the North Arm open water to the GSL lakebed to an elevation of about 4,190 feet MSL within the FFSL easement. Waterleaf anticipates a design discharge rate of 11,400 gpm (when accounting for depleted brine plus the addition of groundwater). Discharge flow and water quality monitoring will occur at the discharge pipeline.

Figure 2. Commercial Plant Facility Plan

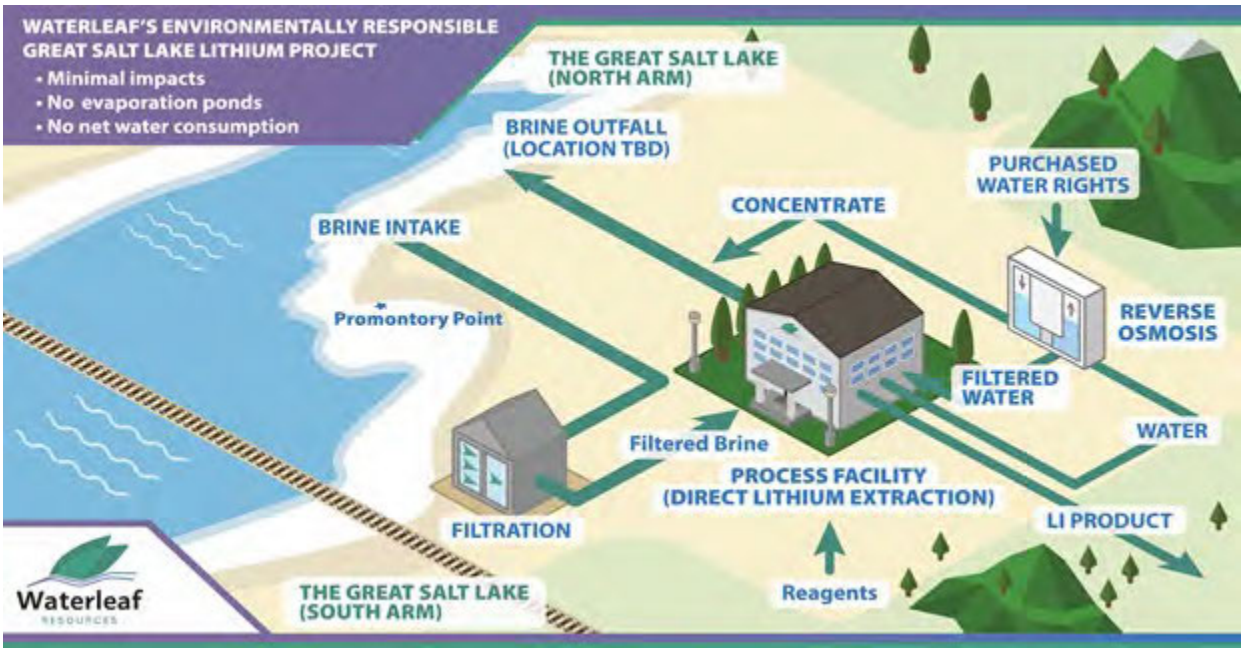
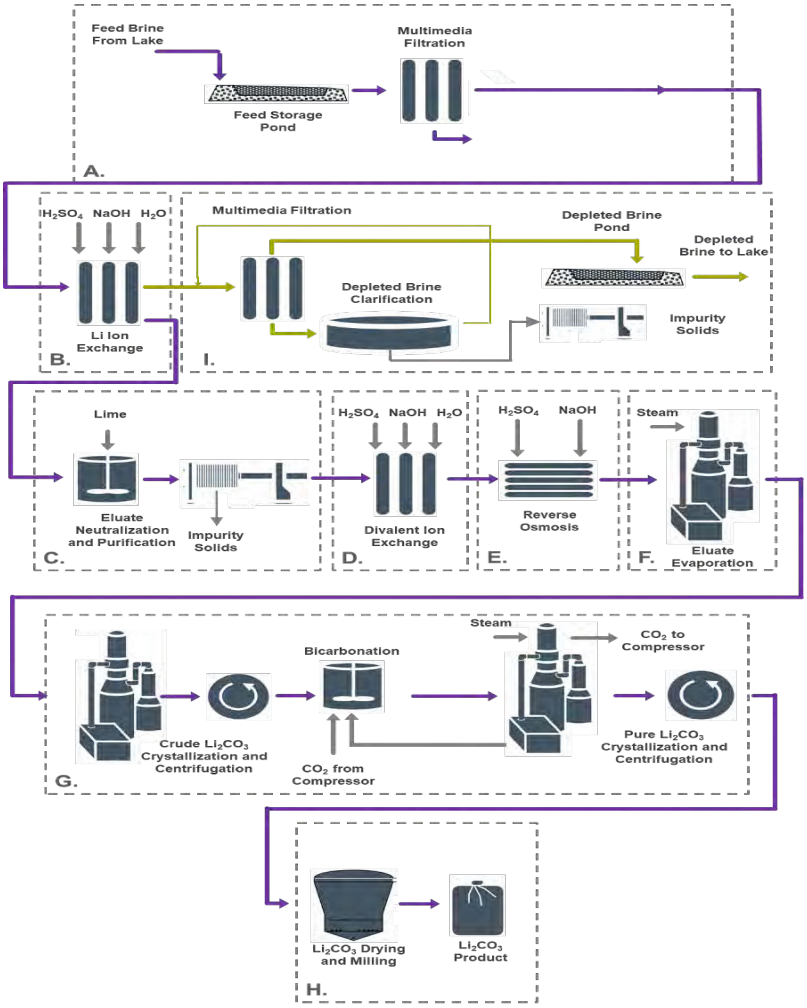


Figure 3. Commercial Plant Process Schematic



3 Standards for Receiving Waters

The Commercial Plant will discharge waters into Gunnison Bay of the GSL. The following beneficial use and water quality standards information is provided for the receiving waters.

3.1 Beneficial Uses

UDWQ has designated beneficial uses for the different named bays of the GSL. The Commercial Plant will be constructed and operated adjacent to Gunnison Bay (the North Arm of the GSL). Due to the location of the Commercial Plant and the nominal amount of North Arm flow to the South Arm of the GSL, the Commercial Plant will have *de minimis* impacts to Gilbert, Farmington, and Bear River Bays (located in the South Arm of the GSL). Therefore, Waterleaf focused this analysis on the open waters of Gunnison Bay (Table 1).

Table 1. Beneficial-use Classes for Gunnison Bay

Class	Location	Beneficial Uses
5B	Gunnison Bay (the North Arm of the GSL excluding evaporation ponds)	Gunnison Bay is protected for infrequent primary and secondary contact recreation, waterfowl, shore birds, and other water-oriented wildlife, including their necessary food chain.
5E	Transitional waters along the shoreline of the GSL geographical boundary	Transitional waters along the shoreline of the GSL geographical boundary are protected for infrequent primary and secondary contact recreation, waterfowl, shore birds, and other water-oriented wildlife, including their necessary food chain.

Source: Utah Administrative Code (UAC) R317-2, Standards of Water Quality for the State, as in effect September 22, 2025

3.2 Water Quality Standards

UDWQ applies numeric and narrative standards to waters of the state to protect designated beneficial uses. State water quality numeric standards refer to specific water quality criteria that are applied to each class of water to protect its beneficial uses. Gunnison Bay and transitional waters (Classes 5B and 5E) have no established numeric water quality standards (UAC R317-14, Numeric Criteria, as in effect September 22, 2025).

State water quality narrative standards apply to the GSL. Narrative standards prohibit the discharge of waste or other substances that result in unacceptable water quality conditions, such as visible pollution or undesirable aquatic life. If a water body does not meet numeric or narrative water quality standards, the beneficial uses of that water body are adversely affected.

3.3 Impaired Waters

In UDWQ's *2024 Integrated Report on Water Quality* (UDWQ 2024), which includes the list of impaired waters in the state, Gunnison Bay is listed as Category 3, having insufficient data to support a determination of impairment.

What is a Section 303(d) list?

When a lake, river, or stream fails to meet the water quality standards for its designated beneficial use, Section 303(d) of the Clean Water Act requires that the State place the water body on a list of "impaired" waters, which is also known as a Section 303(d) list.

The list of impaired waters is referred to as the 303(d) list because the listing process follows the regulatory requirements of Section 303(d) of the Clean Water Act. Impaired waters are defined as those water bodies that do not meet their beneficial uses. Typically, these waters exceed the specific numeric water quality standards associated with a specific class or beneficial use.

Gunnison Bay's water surface level has varied over the years. The water surface level has decadal, annual, and seasonal variations based on watershed hydrology and diversions, direct diversions from the GSL, and management of openings in the Union Pacific Railroad causeway that spans the GSL from Weber County to Box Elder County. This variation in water surface level results in corresponding changes in salinity, which also have decadal, annual, and seasonal variations. The State has not found any evidence of impairment of Gunnison Bay's beneficial use during past water surface level and salinity changes. The Commercial Plant will allow Gunnison Bay's water surface level to continue to vary and meet its beneficial uses because the plant will not deplete Gunnison Bay's brine or lower its water surface elevation (WSE).

3.4 Antidegradation Category of Receiving Water

UDWQ has a statewide antidegradation policy that protects water bodies from proposed project activities that could lower or degrade water quality. The policy requirements include reviews and analyses to protect the existing beneficial uses of the water bodies. The ADR provides a process to identify options if degrading a water's quality is necessary for social and economic development. To facilitate this policy, all waters in Utah are designated as Category 1, 2, or 3 waters. The GSL is considered a Category 3 water subject to ADRs (UAC R317-2-12, Category 1 and 2 Waters, as in effect September 22, 2025).

4 Social, Environmental, and Economic Importance

As provided in UDWQ's guidelines, this section provides details to facilitate UDWQ's concurrence that benefits associated with the Commercial Plant are socially and economically important. It describes the social, environmental, and economic benefits that will be realized by the proposed Commercial Plant to extract lithium from GSL brine using a nonevaporative and nonconsumptive proprietary DLE technology. This section also discusses the social, economic, and environmental losses associated with the Commercial Plant.

Section 4.1 discusses the social and economic benefits associated with Commercial Plant , and Section 4.2 discusses the social, economic, and environmental losses. Section 4.2 discusses the supporting information from affected communities on preserving assimilative capacity, and Section 4.3 discusses the structures or equipment that will be placed in or adjacent to the receiving water.

4.1 Social and Economic Benefits

Social Benefits. Waterleaf Resources' Commercial Plant will maintain the recreational beneficial use of Gunnison Bay, a social benefit. This assertion is based on the technology being nonconsumptive, meaning that withdrawn brine will be discharged back into the GSL with no water depletion. The North Arm's WSE will not be lowered due to the Commercial Plant's operation. Commercial Plant discharge allows Gunnison Bay to maintain its naturally occurring variation in water surface levels and salinity. The State of Utah's legislative and executive offices increase management oversight for mineral leases, salinity, and water surface levels, and the Commercial Plant is consistent with measures to use innovative technologies to extract minerals while minimizing direct depletions of lake water. This goal, to minimize lake water depletion, is further supported by the continuous flow monitoring data that were collected during operation of the Demonstration Plant, as discussed in the *Final Monitoring Report* (Appendix A). Flow monitoring proved that the Demonstration Plant's influent volume was less than the discharge volume.

Economic Benefits. The Commercial Plant will operate DLE technology that can viably and economically extract lithium from GSL brine and produce battery-grade lithium products without depleting water from the GSL. Using a nonevaporative process will maintain beneficial uses and protect the GSL ecosystem. Waterleaf plans to use the DLE technology to produce battery-grade lithium, which is a designated critical mineral necessary for economic and energy security.

The Commercial Plant is projected to provide substantial economic benefits to both the local community and the State of Utah. Excluding construction and auxiliary support positions, the facility will generate 61 new operational jobs with a median annual salary of $86,110. Resulting increases in income and state sales tax revenues are expected to raise state tax receipts by approximately $7.2 million dollars per year. Additionally, commercial operations will enable Waterleaf to establish a royalty agreement with the Utah Division of Forestry, Fire and State Lands (FFSL) for lithium extraction from the Great Salt Lake, potentially contributing up to $2 million in annual royalty payments to the state. Property tax revenues are also anticipated to increase significantly; Box Elder County currently collects approximately $107 per year in property taxes on the parcel where the commercial plant will be located, and this assessment is estimated to rise to nearly $2 million annually once the facility is completed and operational.

Environmental Benefits. The environmental benefits of the Commercial Plant include sustaining the North Arm's WSE, protecting the North Arm's beneficial uses, causing no impact to North Arm habitat, and maintaining the abundance and diversity of the biological community.

The Commercial Plant is consistent with state efforts to reverse historic declines in the GSL's volume by managing new mineral-extraction activities through encouraging using innovative and nonconsuming technologies. The nondepletive DLE process that the Commercial Plant will implement will return all withdrawn brine to the GSL. Through use of this technology, North Arm WSE and volume will not be lowered.

The physical, biological, and chemical data obtained during operation of the Demonstration Plant provide evidence that the Demonstration Plant met UPDES permit requirements and therefore was protective of the North Arm's beneficial uses. Waterleaf expects that the Commercial Plant will maintain these beneficial uses by meeting water quality standards similarly to the Demonstration Plant.

During the Demonstration Plant's operation, influent and discharge water samples were collected in three separate monitoring events and analyzed for the presence of biota (fungi, archaea, bacteria, and algae) by Dr. Bonnie Baxter of Westminster University (Baxter 2025). This biota study was designed to examine and characterize the microbial biomass and community in the influent and discharge of the Demonstration Plant during its operation. In addition, the study inoculated the discharge flows to examine whether biota would survive. In summary, the biota study found North Arm biological communities present and abundant in the influent and discharge flows of the Demonstration Plant. This scientific evidence supports Waterleaf's assertion that the Demonstration Plant did not harm North Arm biota, which Waterleaf anticipates will be the same for operation of the Commercial Plant. The biota study report is included in the *Final Monitoring Report* (Appendix A).

The GSL area where the Commercial Plant infrastructure will be constructed and operated can be described as exposed GSL lakebed and North Arm hypersaline open waters. Mapping has identified the western, eastern, and southeastern shoreline areas in the North Arm that might contain microbialites (Wilcock and others 2021). Microbialite structures provide a food source for brine shrimp and brine flies (Baxter and Butler 2020). However, research has documented that, due to limited availability of nutrients, the North Arm microbialite structures have lower mass, productivity, and/or diversity compared to microbialites in the South Arm (Baxter and Butler 2020).

Waterleaf conducted a microbialite survey of the lakebed intake and outfall construction area (FFSL easement area) to identify the existence of these important habitat structures in the project area. Microbialite structures were not found in the surveyed project area (Appendix C).

Summary. The Commercial Plant will provide social, economic, and environmental benefits using innovative, nonconsumptive technology to withdraw GSL brine and discharge the same amount of brine back to the GSL. This technology also meets state policy objectives to protect the GSL's volume and and to produce critical lithium products, which are a focus of national and global concerns.

4.2 Social, Economic, and Environmental Losses

Waterleaf maintains that there will be no social, economic, or environmental losses from operation of the Commercial Plant. Operation of the Commercial Plant will use nondepletive proprietary extraction technology, recreational beneficial uses will be

maintained, jobs and economic outputs will be realized, and North Arm habitat, biota, and water chemistry will be sustained.

The Commercial Plant will convey brine to the processing facilities and then discharge it back to the GSL. This nonevaporative process will not directly deplete GSL brine from Gunnison Bay; as a result, Gunnison Bay could respond to the annual variations in water surface level and in salinity based on hydrologic conditions and state management actions. The infrequent recreational and ecological uses of Gunnison Bay will continue to be provided within the range of water surface level fluctuation.

Beneficial uses will be maintained during the operation of the Commercial Plant, based on the physical, biological, and chemical monitoring and reporting conducted during the Demonstration Plant's operation. The protection of beneficial uses will not result in environmental losses.

The Commercial Plant will not interfere with nor affect the State's ability to manage Gunnison Bay's water surface level and salinity via the railway causeway management berm.

4.3 Supporting Information from Affected Communities on Preserving Assimilative Capacity

The Commercial Plant will discharge depleted brine into Gunnison Bay within the requirements of a UPDES permit and GSL Mineral Extraction Facility Operator Certification rules. Waterleaf notes that operating the nonconsumptive Commercial Plant, withdrawing brine from the GSL, and returning the removed brine to the GSL will maintain existing water surface and chemistry conditions and preserve assimilative capacity.

4.4 Structures or Equipment That Would Be Placed in or adjacent to the Receiving Water

The Commercial Plant will include constructing intake and outfall infrastructure within the GSL boundaries (below the meander line). Waterleaf has submitted a request for an easement from FFSL for constructing and operating the intake and outfall structures that lie on state lands, below the meander line. The FFSL easement is in the same location as the Demonstration Plant's easement. The intake and outfall pipelines are described in Section 2, *Proposed Project*.

The Commercial Plant will be placed upland on leased private land adjacent to the GSL above the GSL meander line. The intake and outfall infrastructure and associated maintenance activities will allow navigation and open-water inundation consistent with the fluctuating water levels of Gunnison Bay.

5 Parameters of Concern

Parameters of concern (POCs) are normally defined as water quality pollutants that are present in the applicant's discharge at concentrations greater than ambient concentrations in the receiving water or that exceed water quality standards. As mentioned in Section 3.2, *Water Quality Standards*, there are no numeric water quality standards for Gunnison Bay. Narrative standards apply to all water bodies in the state. Waterleaf intends to operate the Commercial Plant and monitor both influent and discharge water quality to show that UPDES permit compliance and GSL Mineral Extraction Facility Operator rule requirements are met.

This section reviews the permitted activity and the UPDES permit and GSL Mineral Extraction Facility Operator rule and evaluates the effects of the Commercial Plant on water surface levels and beneficial uses.

5.1 Potential Parameters of Concern – Water Quality Parameters

The Commercial Plant will withdraw brine, extract lithium from the brine, and discharge the lithium-depleted brine back to Gunnison Bay of the GSL.

In accordance with Section 4.0 of the *Utah Antidegradation Review Implementation Guidance* document (UDWQ 2019), the following considerations are provided to determine the POCs associated with the Commercial Plant:

- As described in Section 2, *Proposed Project*, process elements include influent storage and filtration, periodic pH adjustment, groundwater treatment with reverse osmosis and depleted brine solids removal, storage, and discharge, in addition to the mineral extraction IX process. Because groundwater is introduced into the process, any chemical loads from this addition would represent a change in timing of chemical loads to GSL. When compared to chemical concentrations present naturally in the GSL brines, waterleaf asserts that the change in load timing represents a de-minimus change and that no degradation of GSL brines will occur due to this change. (Appendix B).
- The Demonstration Plant's UPDES permit will be modified to authorize discharge from the commercial facility. The GSL Mineral Extraction Facility Operator Certification Application will be submitted for approval to operate the Commercial Plant. There is no existing UPDES permit or GSL Mineral Extraction Facility Operator Certification authorizing discharge from or operation of the Commercial Plant, respectively. The modified UPDES permit identifies water quality POCs, specifically alkalinity, aluminum, arsenic, barium, bicarbonate, biological oxygen demand, boron, bromide, cadmium, calcium, carbonate, chemical oxygen demand, chloride, chromium, copper, cyanide, density, dissolved oxygen, flow, hardness, hydroxide, iron, lead, lithium, magnesium, manganese, mercury, molybdenum, nickel, nitrate, nitrite, oil and grease, pH, potassium, selenium, silver, silica, silicon, sodium, sulfate, temperature, total dissolved solids, total suspended solids, and zinc.
- Manganese is identified in the Demonstration Plant's UPDES permit because manganese has potential to be discharged by the DLE process. The Demonstration

Plant's compliance monitoring included manganese sampling and analyses. Waterleaf will treat and remove any Manganese added to the discharge brine during the DLE process. Due to this additional treatment, the Commercial Plant operations will discharge manganese in a similar concentration as to what is present in the intake brine.

- No other foreign materials will be added to the discharge.
- Effluent from the Commercial Plant will not be discharged into a Class 1C drinking water source receiving water.
- There are no numeric standards or existing impairment determination for Gunnison Bay. There is no ongoing or approved total maximum daily load (TMDL) analysis for Gunnison Bay or the GSL.

In summary, Waterleaf anticipates that the POCs that are identified in the Demonstration Plant's UPDES permit and GSL Mineral Extraction Facility Operator Certification by Rule will remain the same for the Commercial Plant.

5.2 Ranking and Weighting of Parameters of Concern

Waterleaf anticipates that the POCs identified in the Demonstration Plant's UPDES Permit and GSL Mineral Extraction Facility Operator Certification rules will be required for the Commercial Plant equally. Because there are no numeric water quality standards for Gunnison Bay (North Arm), all constituents will be monitored equally, and no ranking is prepared.

The Demonstration Plant's compliance monitoring results are summarized in the *Final Monitoring Report* (Appendix A). The Demonstration Plant discharged to Gunnison Bay for 25 weeks during 2025. Compliance water quality monitoring was conducted on the influent and discharge. All results were reported electronically through the U.S. Environmental Protection Agency's Network Discharge Monitoring Report (NetDMR) website. The *Final Monitoring Report* summarizes the following information:

- Means and methods for chemical analyses (Section 2)
- Chemical analyses results (Section 3), including:
    - Average, minimum, and maximum influent and discharge concentrations for all constituents and minimum detection limits (Table 3)
    - Discussion on uncertainty and error and results of an outlier analysis (Sections 3.3.1 and 3.3.2, respectively)
    - Detailed review, graphs, and discussion regarding the analytical results for metal constituents (aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, silver, and zinc) (Section 3.3.3)
    - Detailed review, graphs, and discussion regarding the analytical results for salt constituents (calcium, chloride, magnesium, potassium, sodium, and sulfate) (Section 3.3.4)
    - Detailed review, graphs, and discussion regarding the analytical results for manganese and lithium (Sections 3.3.5 and 3.4, respectively)

- Field chemistry results, graphs, and discussion for density, dissolved oxygen, pH, and temperature (Section 3.5)

6 Alternatives Analysis

A Level II ADR requires an analysis of whether there are feasible, less-degrading alternatives to a proposed project. The Commercial Plant will require an amended UPDES permit to discharge water to the GSL from the proposed lithium extraction DLE commercial plant.

The Commercial Plant will use the innovative technology proven by the Demonstration Plant to withdraw brine from the GSL, extract lithium from the brine, and return all withdrawn brine back to the GSL. The Commercial Plant is designed with a specific proprietary IX process; no alternative to this IX process is analyzed.

Conventional discharge alternatives, such as pollutant trading, reuse, land application, and containment, are not appropriate or feasible.

7 Additional Alternative Analysis

No additional alternative analysis has been performed due to the unique and proprietary nature of the DLE process.

8 Optional Public Notice

Because the proposed project will go through a public comment period associated with the amended UPDES permit, Waterleaf requests that the optional public review is not held.

9 Optional Information

The following information is provided to support the determination that the Commercial Plant will be consistent with antidegradation policy and will not impair or degrade water quality.

The Commercial Plant will operate consistent with state antidegradation policy and will protect the beneficial uses of the North Arm of the GSL. This assertion is supported by the water quality, flow, and biota monitoring that was conducted during the operation of the Demonstration Plant this monitoring validated the proprietary, nonconsumptive IX DLE technology. The Commercial Plant will operate in a similar manner as the Demonstration Plant with the same processes and with comparable discharge flow characteristics.

The Demonstration Plant's monitoring included influent and discharge water chemistry, continuous flow, and biota presence and abundance. The results of these monitoring efforts are summarized in the *Final Monitoring Report* (Appendix A).

10 Summary and Conclusion

This Level II ADR report is submitted to demonstrate compliance with the State of Utah's antidegradation policy in fulfillment of information requests by UDWQ to support the modified UDPES permit application for the proposed GSL Phase 1 Lithium Extraction Commercial Plant.

Waterleaf anticipates that the Commercial Plant will operate similarly to the Demonstration Plant, with similar discharge characteristics as compared to influent characteristics. The Demonstration Plant operated for 7 months, from February through August 2025; its discharges to the GSL were authorized by UPDES Permit No. UT0026280 and GSL Mineral Extraction Facility Operators Certification Approval by Rule.

The compliance monitoring conducted during the operation of the Demonstration Plant included influent and discharge water quality and continuous flow. In addition, the Demonstration Plant's influent and discharge flows were sampled and tested to examine the presence and abundance of biota (archaea, algae, bacteria, and fungi). This monitoring provided quantitative data and scientific data that showed compliance with the UPDES permit and GSL Mineral Extraction Facility Operator Certification Approval by Rule. The *Final Monitoring Report* details compliance monitoring results and biota monitoring report.

Waterleaf notes that influent characteristics (North Arm chemistry) will fluctuate over the operation of the Commercial Plant in response to varying WSEs due to hydrologic conditions and state management actions. Therefore, the discharge characteristics will fluctuate accordingly. The comparative analysis (discharge concentrations to influent concentrations) will provide data to support compliance with permit and certification requirements and consistent with antidegradation policy. For these reasons, operating the Commercial Plant using the proprietary nonconsumptive technology that was validated by operation of the Demonstration Plant is consistent with the State's antidegradation policy and will not exceed the GSL's water quality standards nor impair the GSL's beneficial uses.

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APPENDIX A

Final Monitoring Report,

Waterleaf Resources Demonstration Project

Final Monitoring Report

Waterleaf Resources Great Salt Lake Lithium Extraction Demonstration Plant

Prepared for
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October 25, 2025

Contents

1 Introduction 1
1.1 Purpose 1
1.2 Background 2
2 Summary of Monitoring Means and Methods 3
2.1 Water Quality Monitoring 3
2.1.1 Field and Laboratory Parameters and Methods 3
2.1.2 Quality Assurance 5
2.2 Flow Monitoring 6
2.3 Biota Monitoring 6
3 Water Quality Results 8
3.1 Visual Observation Results 9
3.2 Chemistry Monitoring Results 9
3.3 Chemistry Monitoring Results Discussion and Graphs 14
3.3.1 Minimum Detection Limits and Uncertainty 15
3.3.2 Outlier Analyses 16
3.3.3 Metals Discussion 18
3.3.4 Salts Discussion 25
3.3.5 Manganese 28
3.3.6 Lithium 30
3.4 Field Chemistry Results 31
3.4.1 Density 31
3.4.2 Dissolved Oxygen 32
3.4.3 pH 33
3.4.4 Temperature 34
3.4.5 Influent and Discharge Water Salinity 34
4 Flow Monitoring Results 37
4.1 Monthly Volume Results 37
4.2 Total Water Balance 38
5 Biota Monitoring Results 39
5.1 Presence of Biota 39
5.2 Biota Diversity 40
5.3 Biota Growth in Discharge 43
6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation 45
6.1 Impacts on North Arm Salinity or Water Quality Chemistry 45
6.2 Impacts on North Arm Volume, Flows, or Water Levels 46
6.3 Impacts on North Arm Habitat 46
6.4 Impacts on North Arm Biota 47
7 References 48

Tables

Table 1. Water Quality Monitoring Laboratory Methods 4
Table 2. Dates of Water Quality Compliance Monitoring Events 8
Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28) 11
Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18) 13
Table 5. Summary of Outlier Analyses 17
Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations 23
Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm 24
Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm 28
Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm 29
Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm 31
Table 11. Summary of Field Measurements 31
Table 12. Influent and Discharge Density Results 36
Table 13. Demonstration Plant Influent and Discharge Flow Volume 37
Table 14. Biota Cell Counts and Dry Weight 39

Figures

Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations 19
Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations 22
Figure 3. Graphs of Salt Constituents 26
Figure 4. Graph of Manganese Influent and Discharge Data 29
Figure 5. Graph of Lithium Influent and Discharge Data 30
Figure 6. Density Graph 32
Figure 7. Dissolved Oxygen Graph 32
Figure 8. pH Graph 33
Figure 9. Temperature Graph 34
Figure 10. North Arm Volume 35
Figure 11. April 2025 Biota Abundance Graphs 41
Figure 12. June 2025 Biota Abundance Graphs 42
Figure 13. April and June 2025 Biota Growth Results 44

Appendices

A. UPDES Permit
B. Laboratory Data Results
C. Biota Monitoring Report

Abbreviations

°C	degrees Celsius
af	acre-feet
Demonstration Plant	Great Salt Lake Lithium Extraction Demonstration Plant
DLE	direct lithium extraction
DMR	discharge monitoring report
DNA	deoxyribonucleic acid
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
g/cm^3	grams per cubic centimeter
g/L	grams per liter
g/mL	grams per milliliter
g/mol	grams per mole
GSL	Great Salt Lake
IQR	interquartile range
ITS	internal transcribed spacer
IX	ion exchange
lb	pounds
maf	million acre-feet
MDL	minimum detection limit
mg/L	milligrams per liter
mL	milliliter
NA	not applicable
NetDMR	Network Discharge Monitoring Report
NVGD 1929	National Geodetic Vertical Datum of 1929
No.	number
rRNA	ribosomal ribonucleic acid
Si	silicon
SiO_2	silica (silicon dioxide)
UAC	Utah Administrative Code
UDFFSL	Utah Division of Forestry, Fire and State Lands
UDWQ	Utah Division of Water Quality
UGS	Utah Geological Survey
UPDES	Utah Pollutant Discharge Elimination System
USGS	U.S. Geological Survey
Waterleaf	Waterleaf Resources
WSE	water surface elevation

1 Introduction

Waterleaf Resources (Waterleaf) prepared this final monitoring report to present data and data analysis related to chemistry, flow, and biota data obtained during the operation of the Great Salt Lake (GSL) Lithium Extraction Demonstration Plant (Demonstration Plant).

The chemistry and flow data were collected, analyzed, and reported pursuant to Utah Pollutant Discharge Elimination System (UPDES) Permit No. UT0026280, which was issued to Waterleaf by the Utah Division of Water Quality (UDWQ) on February 4, 2025 (UDWQ 2025a). The Demonstration Plant's discharge of effluent to the GSL was authorized by the UPDES permit, which is provided in Appendix A, *UPDES Permit*. The UPDES permit also authorized the operation of the GSL lithium extraction facility, by certification by rule, under Utah Administrative Code (UAC) R317-16.

Summaries of the laboratory chemistry results and continuous flow monitoring data are provided in Appendix B, *Laboratory Test Results*.

The microbial diversity (biota) report (Baxter 2025; Appendix C, *Biota Monitoring Report*) is summarized in this final monitoring report. The biota report provides additional data that characterize the biota in the North Arm of the GSL and in the discharge flow of the Demonstration Plant. The UPDES permit did not require an assessment of the North Arm biota data.

1.1 Purpose

This report is being provided to support the applications for authorizations required to operate Waterleaf's GSL Phase 1 Lithium Extraction Commercial Plant. These applications are the UDWQ UPDES Permit UT0026280 modification, the UDWQ GSL Mineral Extraction Facility Operator Certification (Operator Certification) (UAC R317-16-5(4)), and Utah Division of Forestry, Fire and State Lands (UDFFSL) agreements.

The information in this report and appendices includes summaries of UPDES compliance monitoring data, continuous flow data, North Arm habitat identification, and additional data collected to characterize North Arm biota.

Demonstration Plant discharges are evaluated to determine that there would be no negative impacts to the GSL, as defined by UDWQ R317-16-16 and as supported by chemical monitoring results review and analysis, flow monitoring results, North Arm habitat inventory, and a North Arm biota monitoring study.

1.2 Background

The Waterleaf Resources Demonstration Plant operated from February 2025 through August 2025. The Demonstration Plant, a temporary facility, was operated to validate Waterleaf's proprietary ion-exchange (IX) direct lithium extraction (DLE) process. This proprietary technology is a nonconsumptive and nonevaporative process to extract lithium from GSL North Arm brine. GSL North Arm brine was conveyed to the plant, processed through the IX DLE equipment, and discharged back into the GSL with no brine depletion. Intake and outfall (influent and discharge) infrastructure was located in the open water of the North Arm of the GSL, and the Demonstration Plant's equipment and offices were located on the western slope of the Promontory Mountains in Box Elder County, Utah.

The North Arm (Gunnison Bay) of the GSL is classified as a Class 5B water of the state. It is protected by UDWQ for infrequent primary and secondary contact recreation, waterfowl, and shorebirds and other water-oriented wildlife including their necessary food chain (UAC R317-2-6.5). Numeric water quality standards for the North Arm are not established but narrative standards apply.

Influent brine and discharge water chemistry data, flow data, and biota data were collected during operation of the Demonstration Plant. Operation activities spanned 28 weeks during the winter, spring, and summer. The data collected reflect seasonal changes in GSL North Arm water surface levels, brine temperature, brine chemistry, salinity, and biota growth.

The influent and discharge chemistry weekly monitoring events summarized in this report were conducted and reported in accordance with the UPDES permit and UAC R317-16. The UPDES compliance monitoring data results, which were submitted electronically, can be accessed through the U.S. Environmental Protection Agency's (EPA) ECHO website for facility UT0026280.[1]

[1] U.S. Environmental Protection Agency, Enforcement and Compliance History Online (ECHO) website, National Pollutant Discharge Elimination System (NPDES) Monitoring Data Download page, https://echo.epa.gov/trends/loading-tool/get-data/monitoring-data-download.

2 Summary of Monitoring Means and Methods

This section summarizes the monitoring methods and means that were used to collect data during the Demonstration Plant's operation.

- **Water quality monitoring.** HDR conducted weekly composite water quality sampling and analysis on influent and discharge flows on behalf of Waterleaf.
- **Flow monitoring.** Waterleaf conducted continuous flow monitoring at the intake and outfall systems.
- **Biota monitoring.** Dr. Bonnie Baxter of Westminster University conducted biota monitoring on behalf of Waterleaf. Three biota monitoring events were conducted in 2025.

2.1 Water Quality Monitoring

HDR conducted the required water quality monitoring on behalf of Waterleaf. Required water quality monitoring occurred during the Demonstration Plant's operation in accordance with the UPDES permit (UDWQ 2025a). The data results were reported electronically via EPA's Network Discharge Monitoring Report (NetDMR) system. This section summarizes the means and methods that were used to collect water quality samples and perform the laboratory analyses.

2.1.1 Field and Laboratory Parameters and Methods

HDR collected weekly water quality samples, which were composited for laboratory analysis. Discrete samples were collected every 2 hours over a 6-hour duration. Instantaneous flow rates were measured and used to prepare the flow-weighted composites for chemical analysis by a state-certified analytical laboratory. Chemtech-Ford Laboratory in Salt Lake City, Utah, conducted all water chemistry laboratory analyses.

Silicon (Si) concentrations were calculated by using the UDWQ equation (UDWQ 2025b), using silica concentrations and a molar mass conversion equation:

$[Si] * (SiO_2 \text{ molar mass} / Si \text{ molar mass}) = [SiO_2]$

$[Si] = [SiO_2] / (SiO_2 \text{ molar mass} / Si \text{ molar mass})$

$[Si] = [SiO_2] / (60.08 \text{ g/mol} / 28.09 \text{ g/mol})$

$\mathbf{[Si] = [SiO_2] / 2.139}$

Where: Si = Silicon concentration, mg/L
SiO_2 = Silica concentration, mg/L

In addition to the laboratory chemical analyses, field measurements were taken and reported for pH, dissolved oxygen, and temperature using a Horiba U-53-2 handheld multimeter. Field measurements for density were made using an Anton-Paar density meter. Table 1 lists the constituents and methods that were used for the water quality analysis.

Table 1. Water Quality Monitoring Laboratory Methods

Analysis Method	Constituents
Metals (Total)	
EPA 200.7, Metals in Water by ICP-AES	Boron, calcium, lithium, potassium, silica[1], sodium
EPA 200.8, Metals in Water by ICP/MS	Aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, molybdenum, nickel, selenium, silver, zinc
EPA 1631, Mercury in Water by CVAFS	Mercury
Inorganic Nonmetals	
EPA 300.0, Determination of Inorganic Anions by Ion Chromatography	Bromide, chloride, nitrate, sulfate
EPA 335.4, Determination of Total Cyanide by Semi-automated Colorimetry	Cyanide
SM 2320 B, Alkalinity by Titration	Alkalinity, bicarbonate, carbonate, hardness, hydroxide
SM 4500 NO_2 B, Nitrite by Colorimetry	Nitrite
SM 5210 B, 5-Day BOD Test	Biochemical oxygen demand (BOD)
Hach 8000, EPA Reactor Digestion Method	Chemical oxygen demand (COD)
APHA Standard Method 2540 C, Total Dissolved Solids Dried at 180°C	Total dissolved solids (TDS)
APHA Standard Method 2540 D, Total Suspended Solids Dried at 103–105°C	Total suspended solids (TSS)
Other Methods	
Field Measurement – Instantaneous	Dissolved oxygen, pH, water temperature, density, flow
Visual Observations	Unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor
Grab Sample	Oil and grease
Continuous Monitoring	Influent and discharge flows

Definitions: °C = degrees Celsius; AES = atomic emission spectroscopy; APHA = American Public Health Association; BOD = biochemical oxygen demand; CVAFS = cold vapor atomic fluorescence spectroscopy; EPA = U.S. Environmental Protection Agency; ICP = inductively coupled plasma; MS = mass spectrometry; NO_2 = nitrogen dioxide; SM = Standard Method

1. Silica data have been used to calculate silicon values.

2.1.2 Quality Assurance

Water quality data were analyzed in accordance with the UPDES permit requirements; these requirements include constituents analyzed, frequency, and laboratory minimum detection limits (MDLs). Additional UDWQ Director's requirements were included in the UPDES permit, including providing laboratory Level IV data quality packages. Level IV data quality packages were submitted electronically with the discharge monitoring reports (DMRs).

As a result of this process, Waterleaf observed the following:

- **Precision**
  - Field duplicate samples were collected by UDWQ staff during February and March 2025 as required by UPDES permit UT0026280 and were analyzed to validate Waterleaf's sample results.
  - The precision of the water quality results is documented in the Level IV data quality packages, which include equipment calibration and validation.
- **Accuracy and Bias**
  - Field instrument calibration met manufacturers' requirements.
  - Laboratory quality assurance/quality control (QA/QC) met each laboratory's internal method requirements.
  - Trace-level mercury was not detected in field blank samples when analyzed during the May 1, 2025, monitoring event.
- **Representativeness**
  - All field measurements and samples were collected from locations and on a frequency as required by UPDES permit UT0026280.
  - Weekly compliance monitoring events were conducted when the Demonstration Plant discharged to the GSL (February through August 2025). During the Demonstration Plant's operation, discharges to the GSL were suspended for thee 1-week periods, so compliance monitoring was not conducted during those three 1-week periods.
- **Completeness**
  - Field and laboratory completeness requirements were met.
- **Comparability**
  - Field conditions were within the range of the selected in-situ meter and probe capabilities.
  - Laboratory method detection limits were sufficient to meet UPDES requirements and data quality objectives (Waterleaf 2025a).

Detailed Level IV laboratory quality control and quality assurance documentation was submitted electronically via EPA's NetDMR system. This documentation can be accessed through EPA's ECHO website, as discussed in Section 1.2, *Background*.

2.2 Flow Monitoring

Waterleaf conducted continuous and instantaneous flow monitoring on influent and discharge flows during the Demonstration Plant's operation.

Continuous flow monitoring was conducted using Krohne Optiflux 4300 and Rosemount Magnetic flow meters installed in the Demonstration Plant's intake and outfall infrastructure, respectively. Influent flow monitoring occurred before GSL brine entered the intake holding tank; discharge flow monitoring occurred after brine was discharged from the outfall holding tank. Inline flow meters were installed to continuously monitor the influent flows from the GSL and discharges to the GSL.

Instantaneous flow monitoring was conducted by HDR during water chemistry monitoring events. For each discrete water quality sample, an instantaneous flow measurement was recorded. These instantaneous flow measurements were used to prepare the flow-weighted composite sample for laboratory analysis. Instantaneous flows were recorded from the Waterleaf continuous flow meters.

2.3 Biota Monitoring

Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to study the microbial biomass and community (bacteria, archaea, algae, and fungi) in the influent to and discharge from the Demonstration Plant, which was located on the eastern shore of the North Arm of the GSL (Baxter 2025). The goals of the study were to characterize the biota community in the influent flow and evaluate whether the discharge from the Demonstration Plant affected the biota community of the North Arm.

The following data collection and analysis were conducted to evaluate the influent and discharge characteristics during the Demonstration Plant's operation:

- Identify the biota cells present to estimate cell density and measure biomass.
- Extract and sequence DNA associated with bacteria, archaea, algae, and fungi to determine their abundance and presence.
- Inoculate samples to determine cell growth rate for three conditions: influent, discharge, and a mix (50:50) of influent and discharge.

To identify the presence or absence of biota cells, Dr. Baxter collected water samples from the raw brine intake tank and the Demonstration Plant's discharge tank and pumped the samples through a sterile polyvinylidene fluoride (PVDF) membrane pressure filter unit with a pore size of 0.22 micrometer (µm) to analyze the accumulated biomass. The filter media were frozen on site with liquid nitrogen to preserve the samples and were transported to the lab frozen on dry ice. In the lab, the samples were run through a centrifuge and dried to create a pellet of the cells, and the dry weight of the cell pellet was measured. Using a hemacytometer (which provides a grid and special cover glass to control the distributed volume), the cell density in each of the samples was estimated. The presence of cells in the influent and discharge flows was then verified and further analyzed through biosignatures (DNA sequencing).

To identify microbial diversity, the filter samples were sent to an external laboratory to conduct the DNA sequencing, which establishes the species of life present. The lab

extracted the biota DNA from filters and then amplified the specific genes associated with bacteria, archaea, algae, and fungi. Evaluations were conducted on the DNA sequencing results to determine the presence and relative abundance of microbial taxa present in the influent and discharge water samples. The genetic data were examined and assembled by relative abundance, meaning that the abundance of species can be compared within a specific sample but not to other sample results.

Water samples were inoculated by Dr. Baxter, and biota and observations were logged over 24 days to document growth rates. Four water samples were inoculated: sterile, influent (raw brine), discharge brine, and a 50:50 mix of influent and discharge. The 50:50 mix represents North Arm brine mixed with discharge brine to determine whether the biota would grow that environment.

3 Water Quality Results

The results of each water quality compliance monitoring event were submitted electronically to EPA's NetDMR website in accordance with the UPDES permit requirements. Analytical laboratory data quality Level IV packages were submitted electronically. Laboratory results are provided in Appendix B, *Laboratory Data Results*. A summary of those results is provided below.

Influent and discharge samples were collected and analyzed weekly during the Demonstration Plant's operation. Table 2 lists the dates of the water quality compliance monitoring events annotated with a description of Demonstration Plant operation phases.

Table 2. Dates of Water Quality Compliance Monitoring Events

Week	Sampling Date	Influent Sampling	Discharge Sampling	Notes
1	2/6/25	✓	✓	Start-up operations
2	2/13/25	✓	✓	Start-up operations
3	2/20/25	—	—	No discharge
4	2/26/25	✓	✓	Start-up operations
5	3/425	✓	✓	Start-up operations
6	3/13/25	✓	✓	Equipment validation
7	3/18/25	✓	✓	Equipment validation
8	3/25/25	✓	✓	Equipment validation
9	4/2/25	✓	✓	Equipment validation
10	4/8/25	✓	✓	Equipment validation
11	4/15/25	✓	✓	Equipment validation
12	4/22/25	✓	✓	Equipment validation
13	5/1/25	✓	✓	Equipment validation
14	5/6/25	✓	✓	Equipment validation
15	5/12/25	—	—	No discharge
16	5/20/25	✓	✓	Performance run
17	5/29/25	✓	✓	Performance run
18	6/03/25	✓	✓	Performance run
19	6/12/25	✓	✓	Equipment validation
20	6/17/25	✓	✓	Equipment validation
21	6/24/25	✓	✓	Equipment validation
22	7/1/25	✓	✓	Equipment validation
23	7/10/25	✓	✓	Equipment validation
24	7/15/25	✓	✓	Equipment validation
25	7/22/25	—	—	No discharge
26	7/29/25	✓	✓	Equipment validation
27	8/7/25	✓	✓	Equipment validation
28	8/12/25	✓	✓	Equipment validation

3.1 Visual Observation Results

Observations of water quality covered by state narrative water quality standards were made and documented during compliance monitoring. These observations targeted unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor, that are specifically identified in the narrative standards. No floating debris, oil, scum, or odor were observed in the influent and discharge samples that were evaluated.

The color of the influent and discharge varied throughout the Demonstration Plant's operation; no color was observed early in the plant's operation (February and March), and color was increasingly observed in the influent for the remainder of the plant's operation (April through August). The color of the influent increasingly became pinker as the North Arm's brine temperatures rose and the presence of biota increased. This observation is normal and is supported by the biota monitoring that was conducted (see Appendix C, *Biota Monitoring Report*).

During the first several weeks of the Demonstration Plant's operation, steel rust flakes were observed in the discharge samples. The source of the rust flakes was determined to be corrosion from the intake and outfall steel holding tanks and other carbon steel equipment throughout the Demonstration Plant. Waterleaf observed that the steel holding tanks were corroding and that rust was flaking off the tank interiors as the brine levels fluctuated in the holding tanks and the exposed steel discolored and began to disintegrate.

After the observations were made, Waterleaf modified operation of the Demonstration Plant to minimize the change in water level in the tanks, thereby reducing the exposure of the steel tanks' interiors. The rust flakes were observed and recorded during the February biota monitoring event along with the presence of biota. The biota monitoring report concluded that the corrosion of the holding tanks was not adversely affecting the microorganisms in the discharge (Appendix C, *Biota Monitoring Report*). Rust flakes were not observed after week 5 of the Demonstration Plant's operation.

3.2 Chemistry Monitoring Results

The influent and discharge flows were sampled and analyzed in compliance with the UPDES permit and the Operator Certification. In all, 25 monitoring events were conducted at the Demonstration Plant during its 28-week operation (there was no discharge during 3 of the 28 weeks). A summary of all laboratory analytical results and laboratory MDLs is provided in Table 3 for each constituent in alphabetical order. Field measurements (density, dissolved oxygen, pH, and temperature) are discussed in Section 3.4, *Field Chemistry Results* including a discussion on salinity characteristics of the influent and discharge.

Additionally, as required by UDFFSL rules, a performance run period occurred during weeks 16 through 18 of operation (May 20 through June 10, 2025). During the performance run of the Demonstration Plant, equipment operations were optimized and maintained to measure certain performance metrics (Waterleaf 2025b). Table 4 summarizes average influent and discharge concentrations for this period.

In this section, Waterleaf examines the influent and discharge chemical data in context with laboratory MDLs and uncertainty or error. Also, the chemical data were evaluated for outliers based on interquartile range (IQR) outlier analysis.

During the 28-week operation of the Demonstration Plant, the plant operated in three phases: start-up operations, equipment validation, and performance run (see Table 2 for the duration of each phase). During start-up operations, spikes in some metal constituents and rust flakes were observed, as discussed above in Section 3.1. Data results during start-up are discussed in Section 3.3.3 and summarized in Table 6 for the specific metal constituents that had data spikes during start-up.

To assess whether Demonstration Plant mass loads changed North Arm background mass, loads for metals, salt, and manganese are compared in Table 7, Table 8, and Table 9.

Lithium concentrations and mass loading are provided in Table 10.

In addition to the chemical laboratory analyzes reported in this section, UPDES required the reporting of silicon. Waterleaf used the UDWQ molar mass equation, using silica laboratory results, including the MDL value for nondetect values. Using the UDWQ molar mass equation and the silica data results, the silicon data are:

- Influent characteristics:
    - Average concentration: 2.5 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 3.6 mg/L
- Discharge characteristics:
    - Average concentration: 2.7 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 4.3 mg/L

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Alkalinity	569 (526/599)	360 (119/504)	0.2	NA
Aluminum, total	1.7 (ND/5.2)	1.6 (ND/5.1)	1.2	NA
Arsenic, total	0.477 (0.361/0.620)	0.322 (0.054/0.483)	0.0044	0.180[1]
Barium, total	0.190 (ND/0.342)	0.169 (ND/0.322)	0.057	NA
Bicarbonate	569 (526/599)	360 (119/504)	0.2	NA
Biological oxygen demand	7.4 (ND/16)	6.7 (ND/13)	2.0	NA
Boron, total	60.3 (50.6/65.5)	56.7 (46.7/62.8)	0.61[2]	NA
Bromide	174 (140/201)	160 (132/186)	0.5[3]	NA
Cadmium, total	ND	ND	0.0012[4]	0.0052
Calcium, dissolved	302 (277/327)	288 (258/318)	0.7[5]	NA
Carbonate	ND	ND	0.2	NA
Chemical oxygen demand (COD)	2,420 (ND/7,020)	1,617 (ND/4,300)	617.0[6]	NA
Chloride	181,400 (159,000/194,00)	168,360 (144,000/181,000)	180.0	NA
Chromium, total	0.072 (0.014/0.250)	0.069 (ND/0.236)	0.0062[7]	0.0166
Copper, total	0.0391 (0.0182/0.0759)	0.0470 (0.0052/0.1360)	0.0182[8]	0.067
Cyanide, total	ND	ND	0.022[9]	0.0093
Hardness	59,692 (55,400/67,100)	56,256 (48,600/62,700)	11.7[10]	NA
Hydroxide	ND	ND	0.2	NA
Iron, total	0.58 (ND/0.80)	1.57 (ND/16.4)	0.57	NA
Lead, total	ND	ND[11]	0.0087[11]	0.0465
Lithium, total	67.7 (55.1/81.6)	30.8 (9.33/54.8)	0.403[12]	NA
Magnesium, total	14,312 (13,300/16,100)	13,480 (11,600/15,000)	2.4[13]	NA
Manganese, total	0.0411 (0.0264/0.0794)	0.2385 (0.0554/0.91)	0.0159[14]	NA
Mercury, total	33.2 ng/L (ND/211 ng/L)	39.9 ng/L (ND/109 ng/L)	9 ng/L[15]	0.000022
Molybdenum, total	0.136 (0.111/0.218)	0.111 (0.0169/0.312)	0.038[16]	NA
Nickel, total	0.049 (0.011/0.29)	0.052 (0.009/0.279)	0.0112[17]	0.376
Nitrate	ND	ND	6.64[18]	NA
Nitrite	ND	ND	0.01	NA
Oil and grease	ND	ND	5	NA
Potassium, total	8,662 (8,050/9,650)	8,138 (6,860/9,000)	8.6[19]	NA
Selenium, total	0.308 (0.074/0.908)	0.301 (0.012/0.933)	0.0141[20]	0.0079

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Silica, total	5.3 (ND/7.7)	5.7 (ND/9.2)	4.2	NA
Silver, total	ND	ND	0.008[21]	0.0899
Sodium, dissolved	92,920 (79,000/112,000)	86,568 (61,400/110,000)	343[22]	NA
Sulfate, dissolved	24,220 (10,200/28,100)	22,400 (12,600/28,200)	49.4[23]	NA
Total dissolved solids (TDS)	340,040 (311,000/363,000)	312,640 (259,000/362,000)	1,000[24]	NA
Total suspended solids (TSS)	111 (ND/530)	106 (6/454)	3[25]	NA
Zinc, total	ND	ND	0.05[26]	0.675

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. MDL for arsenic was reported as 0.0088 mg/L for week 1 and 0.022 mg/L for week 24.
2. MDL for boron was reported as 12.1 mg/L for week 9.
3. MDL for bromide varied between 0.5 and 4.7 mg/L.
4. MDL for cadmium was reported as 0.0061 mg/L for week 24.
5. MDL for calcium was reported as 14.6 mg/L for week 24.
6. MDL for COD was reported as 154 mg/L for weeks 1 through 11, 308 mg/L for week 12, and 617 mg/L for weeks 13 through 28.
7. MDL for chromium varied between 0.0062 and 0.0618 mg/L.
8. MDL for copper was reported as 0.0364 mg/L for week 1 and 0.0036 mg/L for week 5.
9. MDL for cyanide varied between 0.004 and 0.132 mg/L.
10. MDL for hardness varied between 11.7 and 234 mg/L.
11. MDL for lead was reported as 0.0174 mg/L for week 1 and 0.0435 mg/L for week 24; discharge value was reported at 0.015 mg/L for week 20.
12. MDL for lithium was reported as 8.07 mg/L for week 8.
13. MDL for magnesium was reported as 48 mg/L for weeks 8, 14, 15, 18, and 24, and 4.8 mg/L for week 4.
14. MDL for manganese was reported as 0.0318 mg/L for week 1.
15. MDL for mercury was reported as 44.9 ng/L for week 1 and 70 ng/L for week 27.
16. MDL for molybdenum was reported as 0.0075 mg/L for week 1 and 0.0188 mg/L for week 24.
17. MDL for nickel was reported as 0.0223 mg/L for week 1 and 0.112 mg/L for week 17.
18. MDL for nitrate was reported as 33.2 mg/L for week 10.
19. MDL for potassium was reported as 171 mg/L for weeks 8, 16, 18, and 24.
20. MDL for selenium was reported as 0.0283 mg/L for week 1 and 0.0707 mg/L for week 24.
21. MDL for silver was reported as 0.017 mg/L for week 1 and 0.042 mg/L for week 24.
22. MDL for sodium was reported as 172 mg/L for week 6.
23. MDL for sulfate was reported as 247 mg/L for weeks 1, 7, 9, 10, 12, 17–20, 23, and 26–28.
24. MDL for TDS was reported as 20 mg/L for week 4.
25. MDL for TSS varied between 0.8 and 8 mg/L.
26. MDL for zinc was reported as 0.09 mg/L for week 1.

Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18)

Constituent	Influent Average (Min/Max) (mg/L)	Discharge Average (Min/Max) (mg/L)
Alkalinity	560 (552/569)	373 (312/414)
Aluminum, total	2.7 (1.2/5.2)	2.5 (1.2/5.1)
Arsenic, total	0.43 (0.39/0.48)	0.31 (0.31/0.32)
Barium, total	0.19 (0.18/0.20)	0.16 (0.15/0.18)
Bicarbonate	560 (552/569)	373 (312/414)
Biological oxygen demand	10 (9/11)	9 (7/10)
Boron, total	60.2 (59.3/61.0)	58.0 (57.4/58.6)
Bromide	173 (140/201)	156 (139/170)
Cadmium, total	ND (ND/ND)	ND (ND/ND)
Calcium, dissolved	291 (277/300)	284 (270/293)
Calculated silicon[1]	2.5 (2.3/2.7)	3.1 (2.9/3.4)
Carbonate	ND (ND/ND)	ND (ND/ND)
Chemical oxygen demand (COD)	1,006 (617/1200)	845 (617/1,300)
Chloride	182,333 (177,000/187,000)	173,333 (166,000/181,000)
Chromium, total	0.048 (0.021/0.062)	0.051 (0.030/0.062)
Copper, total	0.039 (0.030/0.052)	0.040 (0.032/0.054)
Cyanide, total	ND (ND/ND)	ND (ND/ND)
Hardness	58,800 (58,100/59,600)	56,833 (55,500/57,900)
Hydroxide	ND (ND/ND)	ND (ND/ND)
Iron, total	ND (ND/ND)	1.72 (1.30/2.40)
Lead, total	ND (ND/ND)	ND (ND/ND)
Lithium, total	67.4 (66.1/69.6)	16.0 (14.4/18.8)
Magnesium, total	14,100 (13,900/14,300)	13,633 (13,300/13,900)
Manganese, total	0.038 (0.030/0.043)	0.163 (0.141/0.182)
Mercury, total	25.3 (23.3/27.2)	28.6 (24.9/31.4)
Molybdenum, total	0.126 (0.122/0.132)	0.081 (0.055/0.122)
Nickel, total	0.052 (0.015/ND)	.0512 (ND/ND)
Nitrate	ND (ND/ND)	ND (ND/ND)
Nitrite	ND (ND/ND)	ND (ND/ND)
Oil and grease	ND (ND/ND)	ND (ND/ND)
Potassium, total	8,423 (8,280/8,600)	8,137 (7,880/8,480)
Selenium, total	0.185 (0.101/0.238)	0.242 (0.121/0.342)
Silica, total	5.4 (5.0/5.8)	6.7 (6.3/7.3)
Silver, total	ND (ND/ND)	ND (ND/ND)
Sodium, dissolved	95,100 (94,200/96,700)	92,500 (90,300/93,600)
Sulfate, dissolved	25,400 (24,300/26,700)	25,167 (25,000/25,300)
Total dissolved solids (TDS)	341,667 (335,000/349,000)	328,667 (326,000/332,000)
Total suspended solids (TSS)	127 (62/228)	112 (64/175)
Zinc, total	ND (ND/ND)	ND (ND/ND)

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. This is a calculated value based on silica data.

3.3 Chemistry Monitoring Results Discussion and Graphs

This section reviews the results Demonstration Plant weekly laboratory analyses and summarizes the monitoring results for metals, salts, manganese, and lithium. The metal constituents reviewed are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc, and the salts constituents reviewed are calcium, chloride, magnesium, potassium, sodium, and sulfate. Metals and salts, as well as other constituents (manganese and lithium), are required to be analyzed and reported by the UPDES permit and GSL Mineral Extraction Facility Operator Certification rules.

Data results for all constituents are summarized in Table 3 above, and laboratory results spreadsheets are attached in Appendix B, *Laboratory Data Results*.

To evaluate whether changes in metals, salts, and minerals (manganese and lithium) discharge concentrations (as compared to intake concentrations) result in a change in chemistry in the North Arm of the GSL. Waterleaf uses various lines of evidence, which consist of the following,

- MDLs and uncertainty of data
- Lack of comparable historic North Arm chemistry data and numeric water quality standards
- Relative increase or decrease in average concentrations (Table 3 above) as compared to MDLs and uncertainty
- Relative increase or decrease in average concentrations during the performance run (Table 4 above)
- Outlier analysis (Table 5 below)
- Relative increase or decrease in normal operations average concentrations (removing the first 5 weeks of start-up operations; see Table 6 below)
- Total change in mass loadings (discharge load subtracted from influent load) based on average concentrations, as compared to North Arm mass, at current water surface elevations (WSE) (Table 7, Table 8, and Table 9 below)
- Biota study results

3.3.1 Minimum Detection Limits and Uncertainty

Chemical analyses on the GSL brine samples and specifically North Arm brine samples are difficult to perform because of the high density, high salinity, and other unique characteristics of GSL brine. These characteristics interfere with laboratory means and methods. Due to these interferences, data results can often have various MDLs, various dilution rates, and large spike recovery ranges, all of which create a level of error and uncertainty. Although this error and uncertainty exists, the individual laboratory test results met data quality criteria and equipment precision ranges.

Overall, the MDLs for the analyzed constituents were consistent and met UPDES requirements. The laboratory data quality packages reported a few cases in which the MDL for selenium was not met. Level IV laboratory data quality results also documented dilution rates and spike recovery rates to meet quality control and assurance requirements.

Waterleaf also uses context when reviewing the data. Some constituents were analyzed at MDLs that were less than designated by the UPDES, as shown in Table 3 above. For example, copper was analyzed with an MDL of 0.0182 mg/L, which is below the UPDES stated MDL of 0.067 mg/L. So, when the influent and discharge average values are calculated at 0.0391 mg/L and 0.0470mg/L, respectively, they are below the UPDES stated MDL and might be considered comparable. Very low MDLs can bias the review of the data by detecting increases and decreases in concentration that are insignificant compared to other data sets.

Error and uncertainty (lab interference) need to be considered when reviewing the data. The heavy brine requires that samples are diluted to effectively be analyzed by equipment that is normally processing fresh water samples. The dilution rates for analyses ranged from undiluted (rate of 1)to 6, 20, and 50 up to a high of 100. Also, all samples were analyzed independently, so the intake and discharge samples for the same day might be diluted differently. Laboratory method accuracy is measured by percent recovery, and these percent recoveries vary for the different methods used for this project. For example, salts generally have a ±20% recovery, while metals have a ±15% recovery. The Utah Geological Survey has estimated that, for most GSL data, a minimum error of about 10% could be attributed to the challenges of processing the brine, based on conversations with the analytical laboratory (UGS 2025).

Waterleaf did report all data to UDWQ consistent with UPDES compliance monitoring requirements. That being said, the laboratory chemical analyses and results provided are adequate to meet the data quality objectives of the monitoring, which are to characterize the chemistry of the North Arm raw brine that is used as influent water to the lithium extraction process and to characterize the discharge of the lithium-depleted brine back to the North Arm.

3.3.2 Outlier Analyses

As with any data set, results often include concentrations that are unusually high or low—or in other words, outside the normal or expected range. To evaluate the impact of outliers on the Demonstration Plant data set, an outlier analysis was performed to identify whether outliers occurred extensively throughout the data set. Waterleaf determined that they did not. Therefore, Waterleaf included all data in the calculation of average, minimum, and maximum. Below is a summary of the outlier analyses and the results.

An IQR outlier analysis was conducted on the laboratory data results for each constituent's influent and discharge data. This analysis requires calculating the upper-quartile boundaries and then comparing the data to this threshold. Data points above this threshold are considered outliers.

In all, of the 1,900 data points analyzed for 38 constituents, 18 constituents were determined to have 59 data exceedances; that is, 59 data points were above the upper-quartile boundary. Of these 59 data points, 34 were influent outlier points and 25 were discharge outlier points. The results of the outlier analyses for those constituents with data exceedances are shown in Table 5 below.

Of note, outlier analyses were not conducted on the 10 constituents with nondetected concentrations. Also, the lower-quartile boundary analyses were not completed due to the presence of nondetection concentrations.

This analysis provides further evidence that the significant variations in data results are limited—using the IQR analytical methodology, about 3.1% of the data reported are considered outliers (outside the upper-quartile boundary).

Based on the IQR outlier analyses for all constituents analyzed, Waterleaf determined that the outliers did not occur extensively. Therefore, all data are included in the calculation of average, minimum, and maximum concentrations.

Table 5. Summary of Outlier Analyses

Constituent	Influent Outliers			Discharge Outliers		
	Influent Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances	Discharge Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances
Aluminum, total	1.7	3.0	1	1.6	2.5	2
Barium, total	0.190	0.238	3	0.169	0.248	2
Bromide	0.173	200.5	1	160.1	192.5	0
COD	2,420	4,450	4	1,1617	4,650	0
Chromium, total	0.072	0.196	2	0.069	0.176	2
Copper, total	0.0391	0.0661	2	0.0470	0.0753	2
Hardness	59,692	64,100	2	56,256	65,200	0
Iron, total	0.58	0.57	1	1.57	2.4	2
Lead, total	0.0104	0.0087	0	0.0107	0.0087	1
Lithium, total	67.7	73.0	2	30.6	91.7	0
Magnesium, total	14,312	15,400	2	13,480	15,600	0
Manganese, total	0.0411	0.0550	2	0.239	0.511	1
Mercury, total	33.2	33.7	2	39.9	52.8	3
Molybdenum, total	0.136	0.163	1	0.111	0.178	4
Nickel, total	0.049	0.091	4	0.052	0.087	3
Potassium, total	8,662.4	9,535	1	8,138	9,455	0
Sodium, dissolved	92,920	108,100	1	86,568	114,300	0
TSS	110.9	278.5	3	105.6	264.0	3

Definitions: COD = chemical oxygen demand; mg/L = milligrams per liter; TSS = total suspended solids

3.3.3 Metals Discussion

In this section, Waterleaf reviews the laboratory data results for metal constituents. Metals are often the focus of review due to their potential toxicity and their regulation by the Clean Water Act. Metal MDLs and loads were specific components of the UPDES permit. As stated in Section 1.2, *Background*, the North Arm is protected for recreation and wildlife use; however, numeric water quality standards have not been established.

The metal constituents discussed below are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc.

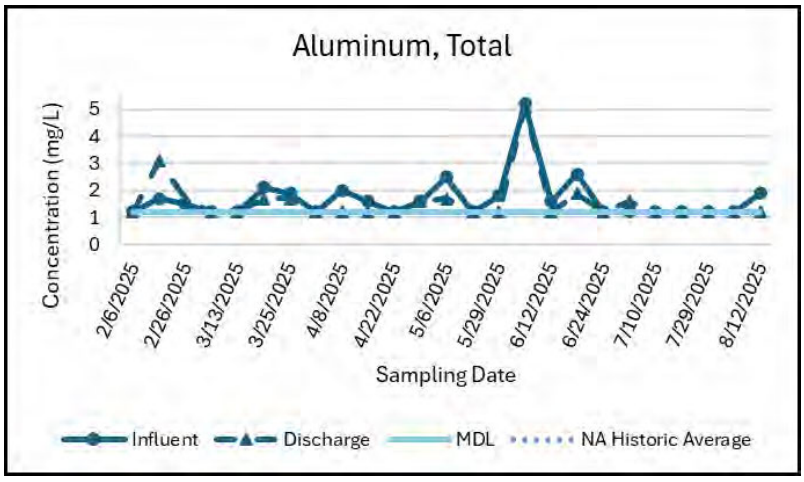
Metals That Were Not Detected. The data results reported four metal constituents (cadmium, lead, silver, and zinc) as nondetected for both influent and discharge concentrations for the entire 28-week operation of the Demonstration Plant, including the start-up and performance run periods (Table 3 above).

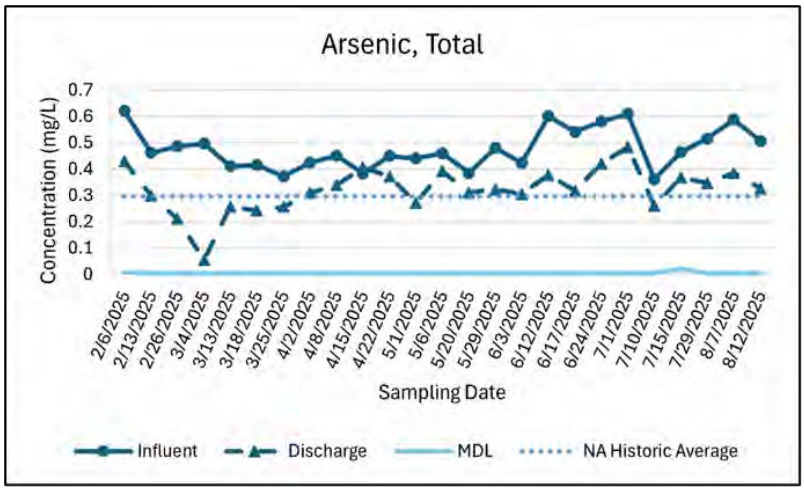
Metals with Lower Discharge Concentrations. Seven metal constituents (aluminum, arsenic, barium, boron, chromium, molybdenum, and selenium) were reported with lower average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 1 for these seven constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023). For some constituents, historical data were not available.

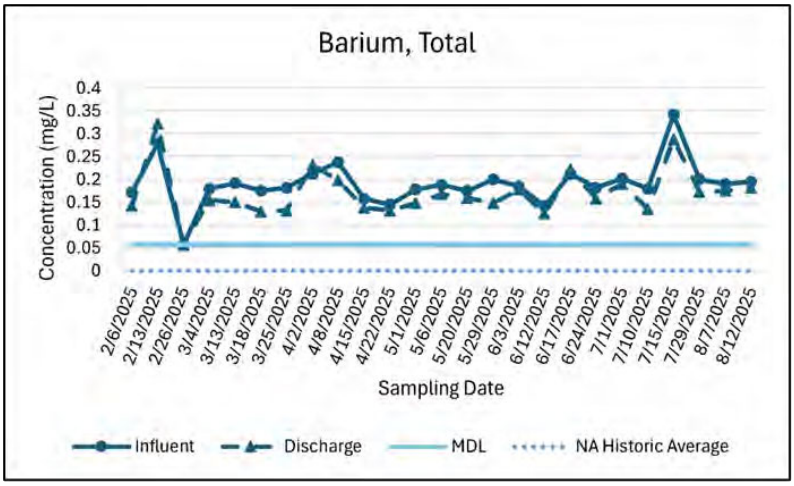
The data for the entire 28-week operation indicate the following decreases in average discharge concentrations compared to average influent concentrations: aluminum (decrease of 7%), arsenic (decrease of 32%), barium (decrease of 11%), boron (decrease of 6%), chromium (decrease of 4%), molybdenum (decrease of 18%), and selenium (decrease of 2%).

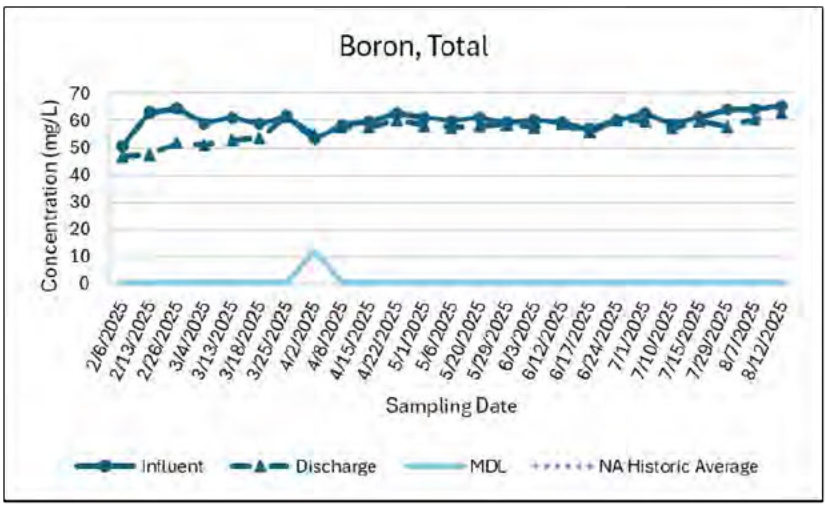
These constituents also showed average decreased concentrations compared to intake concentrations during the performance run (weeks 16–18) (Table 4 above), with the exception of chromium and selenium, for which average discharge concentrations increased above average intake concentrations. If the uncertainty estimate of 10% is taken into perspective, the decreases for aluminum, boron, chromium, and selenium are within this error range.

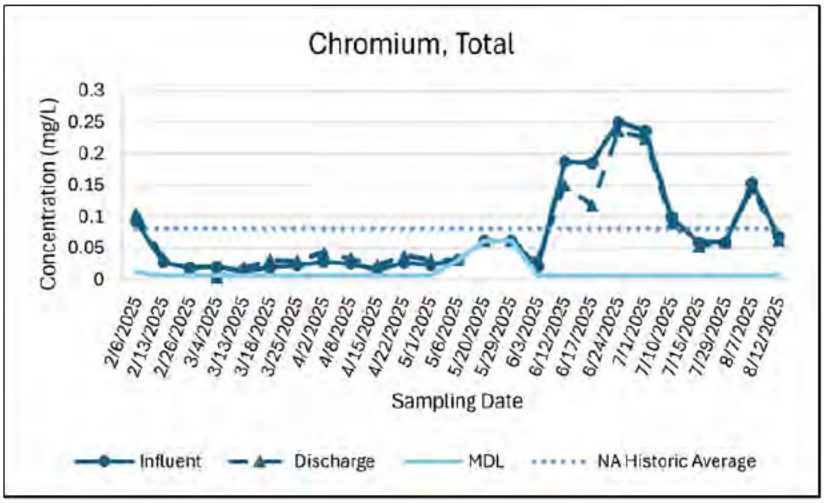
Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations

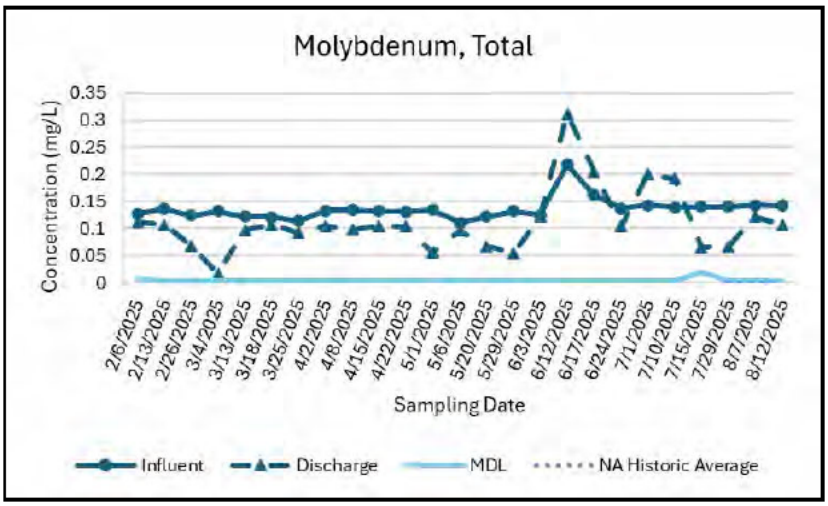


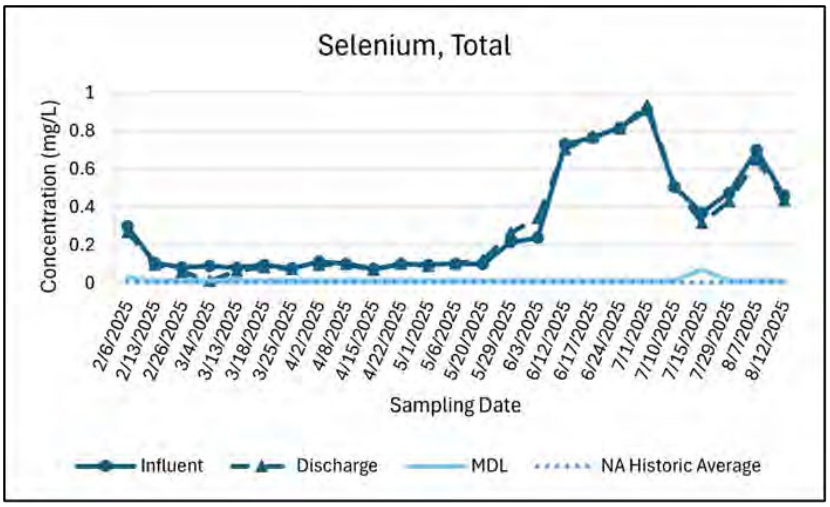





Boron, Total
Concentration (mg/L)
70
60
50
40
30
20
10
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Chromium, Total
Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
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8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

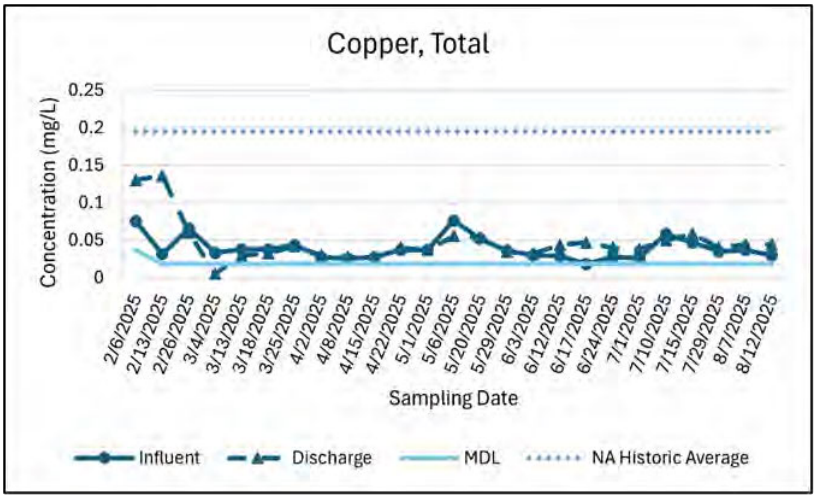

Molybdenum, Total
Concentration (mg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

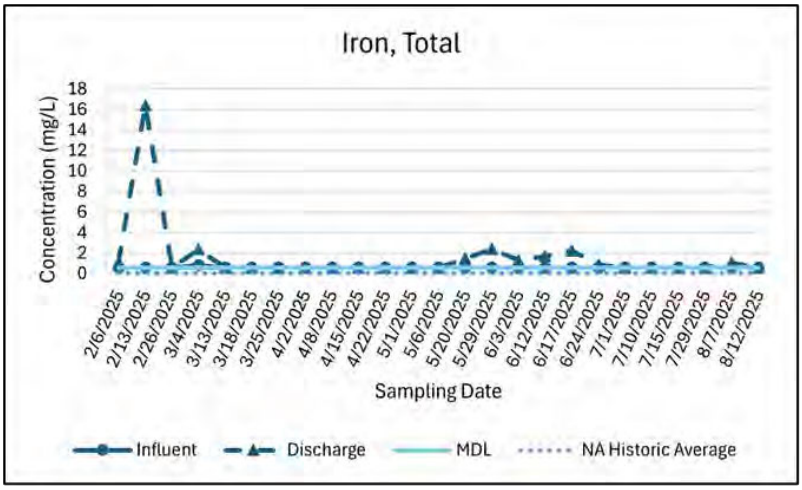


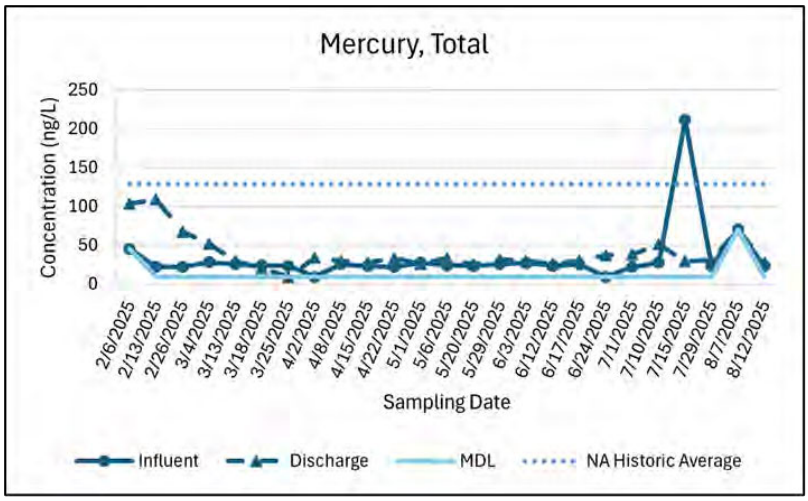
Metals with Higher Discharge Concentrations. Four metal constituents (copper, iron, mercury, and nickel) were reported with higher average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 2 for these four constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023).

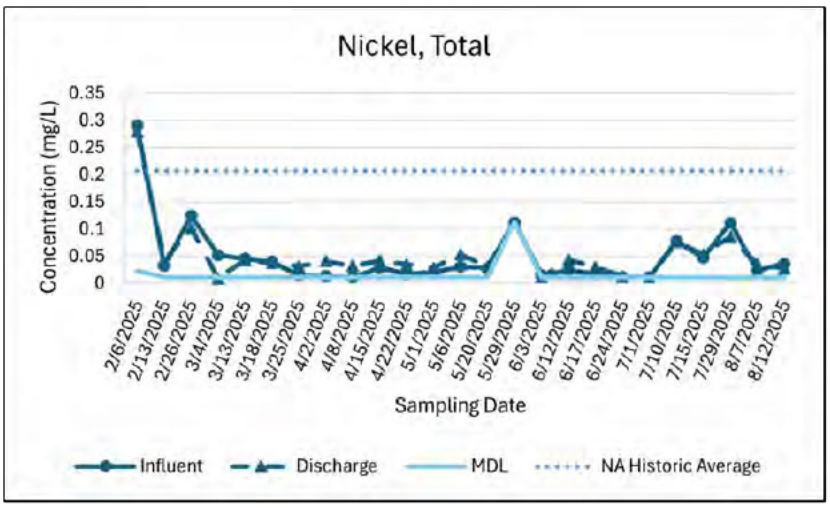
The increases in average discharge concentrations compared to the average influent concentrations are: copper (increase of 20%), iron (increase of 272%), mercury (increase of 20%), and nickel (increase of 6%). Based on a review of the graphs and the data, it is apparent that, during the Demonstration Plant's start-up period, discharge concentrations for these metals were higher than during the following weeks. Waterleaf conducted further review of the data and operations during this start-up period to determine the cause of the data spikes. Waterleaf determined that, during start-up operations (weeks 1–5), processes and equipment were the cause of the data spikes for certain metal constituents, because these four constituents are not a component of the DLE process.

Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations









The increases in discharge concentrations (compared to influent concentrations) for copper, iron, mercury, and nickel during the start-up period can be partially attributed to the Demonstration Plant's equipment being made from carbon steel, stainless steel, and other corrodible materials. Equipment becomes corroded from exposure to the high-saline North Arm brine and exposure to oxygen. Evidence of corrosion consisted of higher concentrations of four metals (copper and iron, plus mercury and nickel) during the first 5 weeks, which was the Demonstration Plant's start-up period of operation, as well as visual observations of rust flakes in the discharge. During investigations to identify the source of the rust flakes in the discharge, observations were made confirming that the carbon steel frac tanks being used to store raw brine and depleted brine were in fact showing signs of corrosion.

After the initial start-up period of 5 weeks, rust flakes were not observed, and the discharge concentrations became more consistent. Table 6 compares the average influent and discharge results for the start-up period (weeks 1–5) and regular operations (weeks 6–28). As the data indicate, average discharge concentrations drastically reduced after the initial plant start-up process. After start-up, mercury and nickel average discharge concentrations decreased compared to average influent concentrations. Copper and iron results reported an increase in average discharge concentrations compared to average influent concentrations.

Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations

Constituent	Start-up (Weeks 1–5)		Operation (Weeks 6–28)	
	Influent Average (mg/L)	Discharge Average (mg/L)	Influent Average (mg/L)	Discharge Average (mg/L)
Copper, total	0.0513	0.0829	0.0368	0.0401
Iron, total	0.628	5.10	ND (<0.57)	0.902
Mercury, total	29.2 ng/L	82.8 ng/L	34.0 ng/L	31.7 ng/L
Nickel, total	0.124	0.108	0.0348	0.0412

Definitions: mg/L = milligrams per liter; ND = nondetect; ng/L = nanograms per liter

These four constituents, along with chromium and selenium, had increased discharge concentrations compared to influent concentrations during the performance run period.

Waterleaf noticed that iron discharge concentrations increased during a 6-week period during regular operations and conducted further analyses. Most of the iron intake and discharge concentration results were reported nondetect, except during start-up operations and during a 6-week period (weeks 16–22). The increased discharge concentrations during start-up were discussed above. The increased discharge concentrations for weeks 16–22 followed a period of no discharge (week 15). During week 15, the plant experienced equipment failures and did not operate. When the plant was brought back online with replacement equipment operating, increases in iron discharges occurred until the process recovered (week 22). Iron discharge concentrations were reported nondetect during the remainder of operation (weeks 22–28).

Metal Load Analyses. To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the metal constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks), including outliers, compared to North Arm mass. Demonstration Plant loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The resulting mass load due to Demonstration Plant operation is shown in Table 7.

Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Aluminum, total	1.7	15.49	1.6	15.13	−0.36	14,978,200
Arsenic, total	0.477	4.35	0.322	3.04	−1.3	4,202,700
Barium, total	0.190	1.73	0.169	1.60	−0.13	1,674,000
Boron, total	60.3	549.3	56.7	536.1	−13.2	531,286,700
Chromium, total	0.072	0.66	0.069	0.65	−0.01	634,400
Copper, total	0.0391	0.36	0.0470	0.44	0.09	344,500
Iron, total	0.58	5.28	1.57	14.84	9.56	5,110,200
Mercury, total	0.0000332	1.65	0.0000399	2.0	0.35	290
Molybdenum, total	0.136	1.24	0.111	1.05	−0.19	1,198,300
Nickel, total	0.049	0.45	0.052	0.49	0.04	431,700
Selenium, total	0.308	2.81	0.301	2.85	0.04	2,713,700

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af and average influent concentrations

In considering the mass decreases in the North Arm for aluminum, arsenic, barium, boron, chromium, and molybdenum discharges (Table 7 above), mass decreases due to

Demonstration Plant operations are in the range of 0.000002% to 0.00003% compared to North Arm total mass and are considered by Waterleaf to be *de minimis*.

In considering the mass load increases to the North Arm from the Demonstration Plant (Table 7 above), increases for copper (0.00002%), nickel (0.000009%) and selenium (0.0000015%) are considered by Waterleaf to be *de minimis*. The mass increase of iron to the North Arm is estimated at 9.6 pounds (lb), compared to 5.11 million pounds, or an increase of 0.0002%, which is also considered by Waterleaf to be *de minimis*.

The mercury data indicate that the mass load to the North Arm resulted in a 0.35-lb increase, compared to a North Arm mass of 290 lb, or an increase of 0.12%, which is considered by Waterleaf to be not significant. The bulk of this mass load occurred during the start-up period (Figure 2 and Table 6 above). Although mercury concentrations in the discharge during start-up operations were higher than in the influent, subsequently, during the remainder of the Demonstration Plant's operation, average discharge concentrations were less than average influent concentrations.

A review of the start-up comparison (Table 6 above) and investigation into the source of the corrosion revealed conditions specific to the Demonstration Plant's equipment. Comparing the data collected during remainder of the operations and performance run data run (Table 4 above), the temporary discharge of mercury mass load to the North Arm, due to start-up operations, is considered by Waterleaf to be not significant.

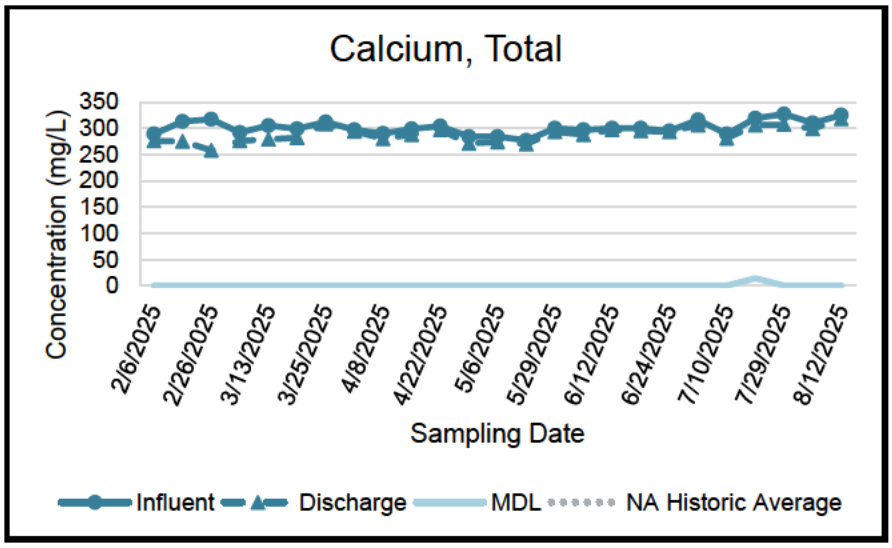
3.3.4 Salts Discussion

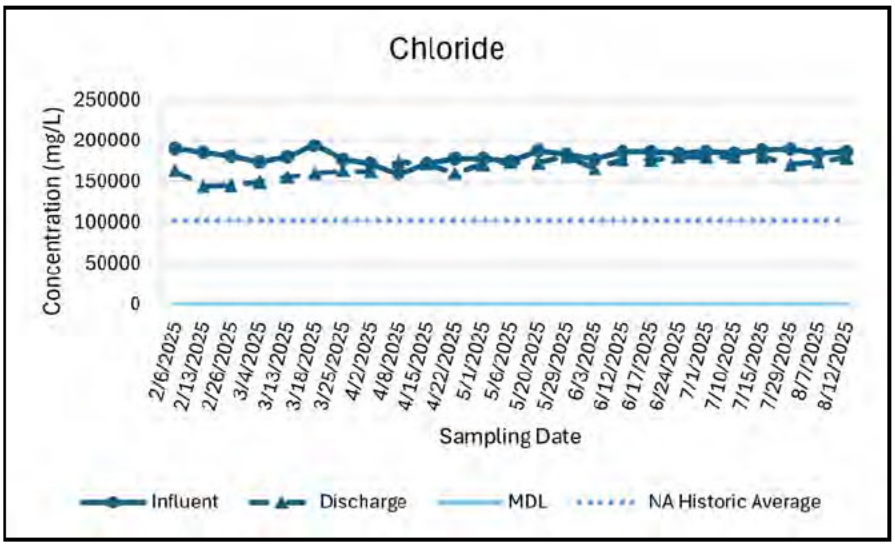
In this section, Waterleaf reviews the laboratory data results for salt constituents. GSL salts are important because they support the mineral extraction industry.

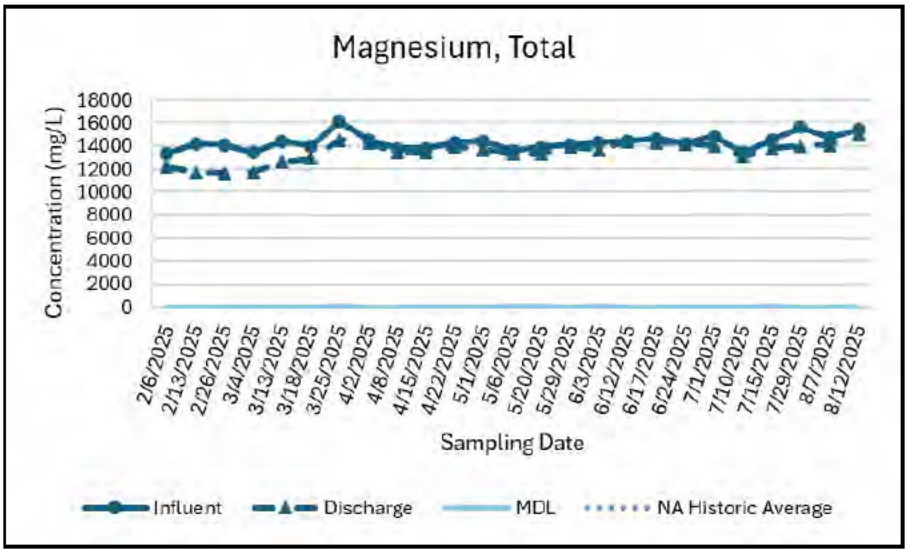
All salt cations and anions were reported with lower discharge concentrations than influent concentrations. These salt constituents are calcium, chloride, magnesium, potassium, sodium, and sulfate. The monitoring data for these constituents are graphed in Figure 3 below. Salt constituents' average discharge concentrations decreased in the range of 4.6% to 7.5% compared to average influent concentrations. This range is comparable to the average discharge concentration decrease in TDS of 8% compared to the average influent concentration.

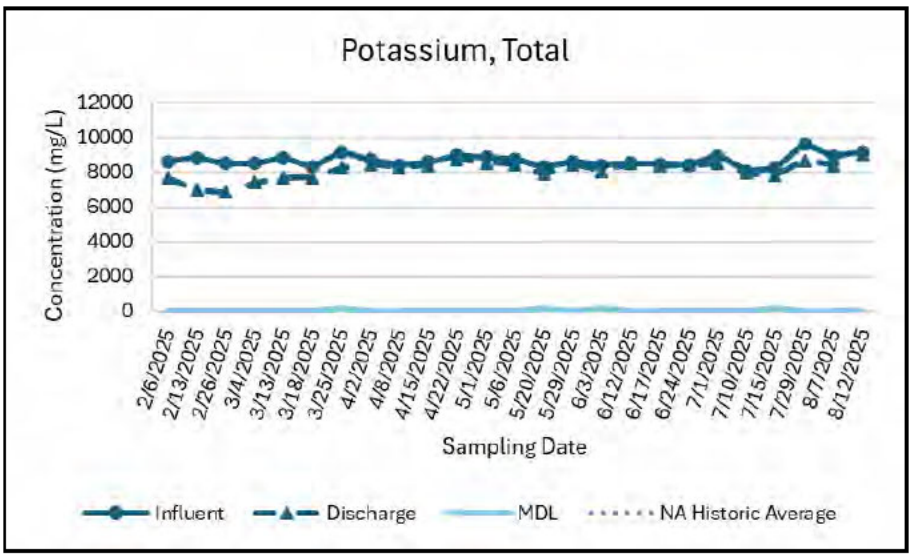
To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the salt constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the salt constituents mass in the North Arm. The mass load comparison is shown in Table 8 below.

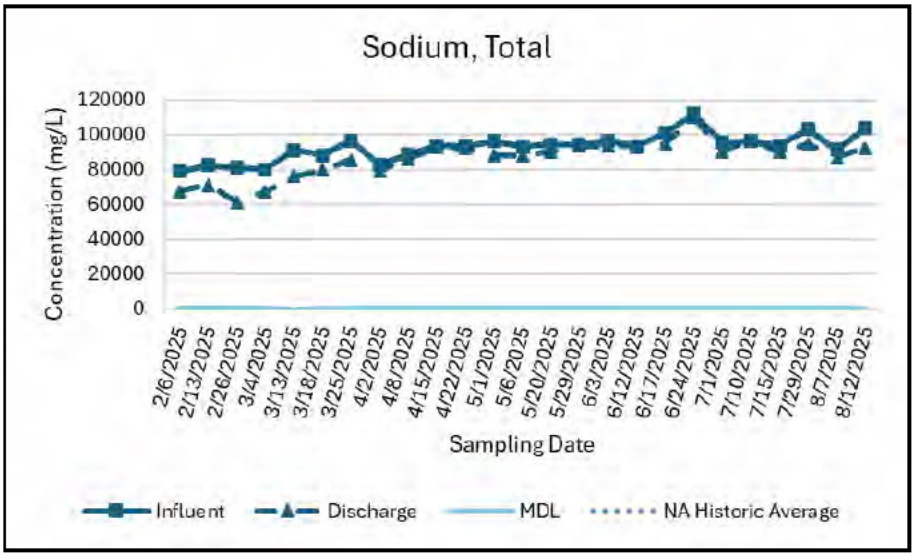
Figure 3. Graphs of Salt Constituents








Potassium, Total
Concentration (mg/L)
12000
10000
8000
6000
4000
2000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Sodium, Total
Concentration (mg/L)
120000
100000
80000
60000
40000
20000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

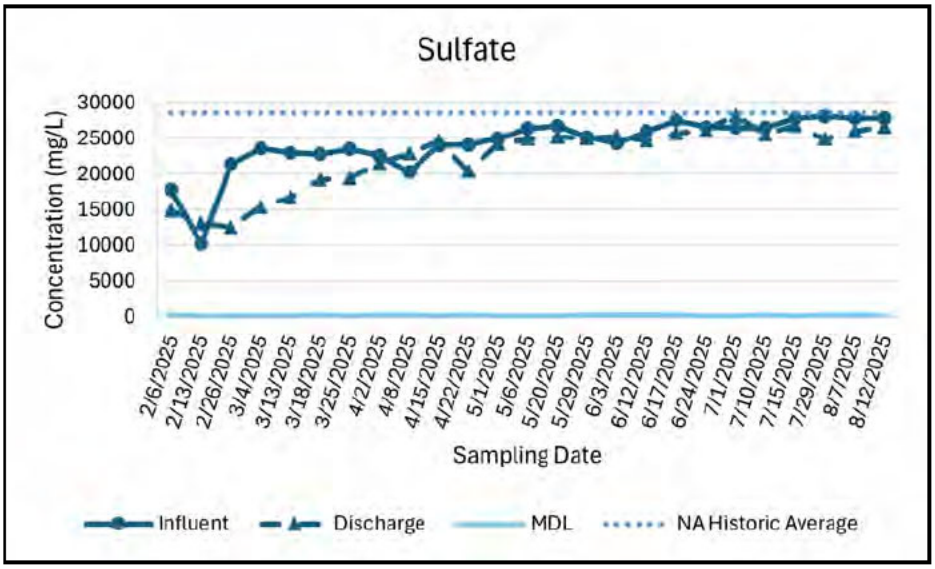

Sulfate
Concentration (mg/L)
30000
25000
20000
15000
10000
5000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Calcium	302	2,750	288	2,720	−30	2,657,315,000
Chloride	181,400	1,652,500	168,400	1,591,900	−60,600	1,598,265,596,000
Magnesium	14,312	130,400	13,480	127,500	-2,900	126,099,103,000
Potassium	8,662	78,900	8,138	76,900	-2,000	76,322,028,000
Sodium	92.920	846,500	86,568	818,500	-28,000	818,692,609,000
Sulfate	24,220	220,600	22,400	211,800	-8,800	213,395,770,000

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

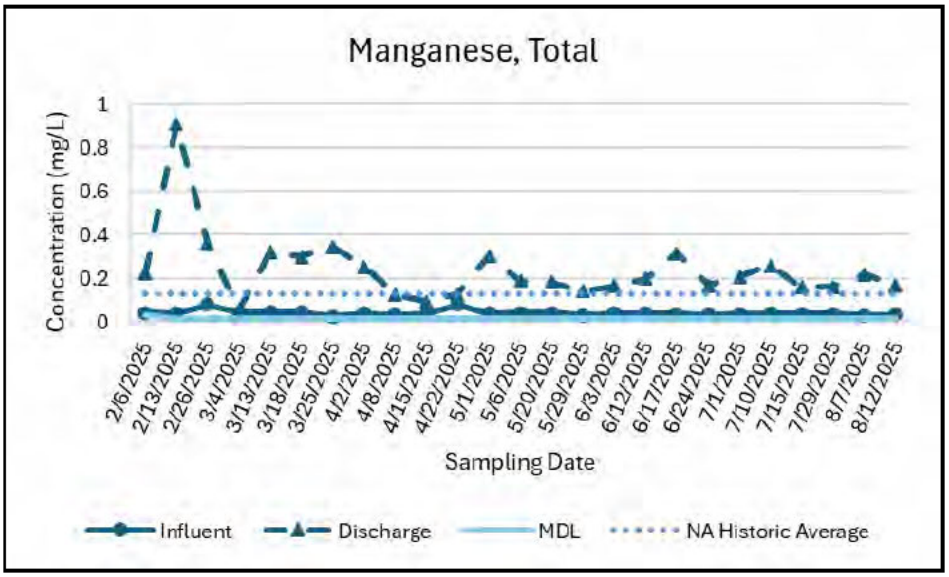
1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

In assessing the mass decreases in the North Arm for salt constituents due to the Demonstration Plant's operation, mass decreases are considered by Waterleaf to be *de minimis*.

3.3.5 Manganese

Manganese is identified as a component of the DLE process and is discharged from the Demonstration Plant. This is the only constituent that resulted in higher concentrations in the discharge compared to the influent concentrations because of the DLE process. Figure 4 below shows the results of the weekly influent and discharge compliance sampling for manganese.

Figure 4. Graph of Manganese Influent and Discharge Data



Average discharge concentrations are reported higher than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods.

To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the increase of the North Arm manganese mass was reviewed. Demonstration Plant manganese mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant added about 1.88 lb of manganese to the mass in the North Arm, or, in other words, the mass of the North Arm increased by about 0.00052%. This increase in North Arm manganese mass due to the operation of the Demonstration Plant is considered by Waterleaf to be *de minimis*. The mass load comparison for manganese is shown in Table 9.

Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Manganese	0.0411	0.37	0.2385	2.26	1.88	362,100

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

Waterleaf conducted additional data review related to the discharge of manganese. There are no federal or state water quality standards for manganese levels for

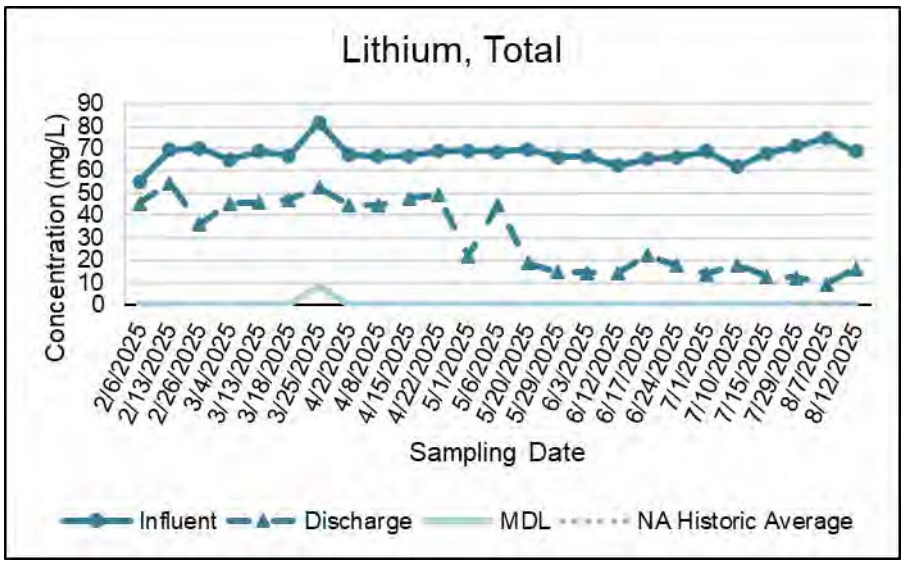
recreational exposures. Manganese is a mineral that exists naturally in the GSL and other freshwater bodies. Federal guidelines are published for dermal exposure to manganese during showering with tap water (drinking water) (HDR 2025). Waterleaf asserts that the manganese in the North Arm and in the depleted brine discharge is in solution and will not precipitate. This review determined that the increase in manganese discharged to the GSL due to the Demonstration Plant was not significant compared to existing standards and guidelines, existing North Arm loads, and protection of existing beneficial uses.

3.3.6 Lithium

Lithium is the targeted mineral for extraction by the Demonstration Plant. As a result, average discharge concentrations are less than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods. The extraction of lithium from the GSL is overseen by UDFFSL, and royalties are paid by Waterleaf in accordance with GSL mineral extraction facility rules.

Figure 5 shows the results of the weekly influent and discharge compliance sampling for lithium.

Figure 5. Graph of Lithium Influent and Discharge Data



To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the decrease of the North Arm lithium mass was reviewed. Demonstration Plant lithium mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the North Arm lithium mass by about 326 lb, or, in other words, the mass of the North Arm decreased by about 0.000055%. This decrease in North Arm lithium mass due to the operation of the Demonstration Plant is

considered by Waterleaf to be *de minimis*. The mass load comparison for lithium is shown in Table 10.

Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Lithium	67.7	617	30.8	291	-326	594,724,000

Definitions: af = acre=feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

3.4 Field Chemistry Results

As identified in Table 1 above, field measurements were taken during the compliance monitoring events for influent and discharge flows. These field measurements are density, dissolved oxygen, pH, and temperature.

Table 11 summarizes the field measurements. Parameter-specific discussions follow the table.

Table 11. Summary of Field Measurements

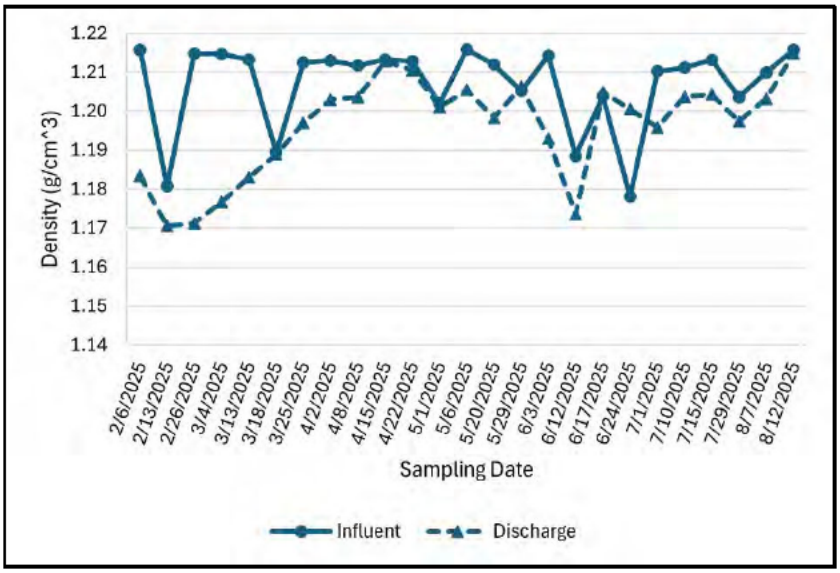
Field Parameter	Influent Average	Discharge Average	UPDES Limit
Density, g/cm^3	1.21	1.20	NA
Dissolved oxygen, mg/L	7.12	6.44	NA
pH	7.52	7.40	6.5–9
Temperature, °C	NA	NA	NA

Definitions: °C = degrees Celsius; g/cm^3 = grams per cubic centimeter; mg/L = milligrams per liter; NA = not applicable; UPDES = Utah Pollutant Discharge Elimination System

3.4.1 Density

Influent density was relatively consistent, ranging between 1.21 and 1.22 grams per cubic centimeter (g/cm^3). The influent density dipped on several occasions, and these dips were reasoned to be due to environmental conditions, specifically recent rainfall and the shallowness of the intake infrastructure (Figure 6 below).

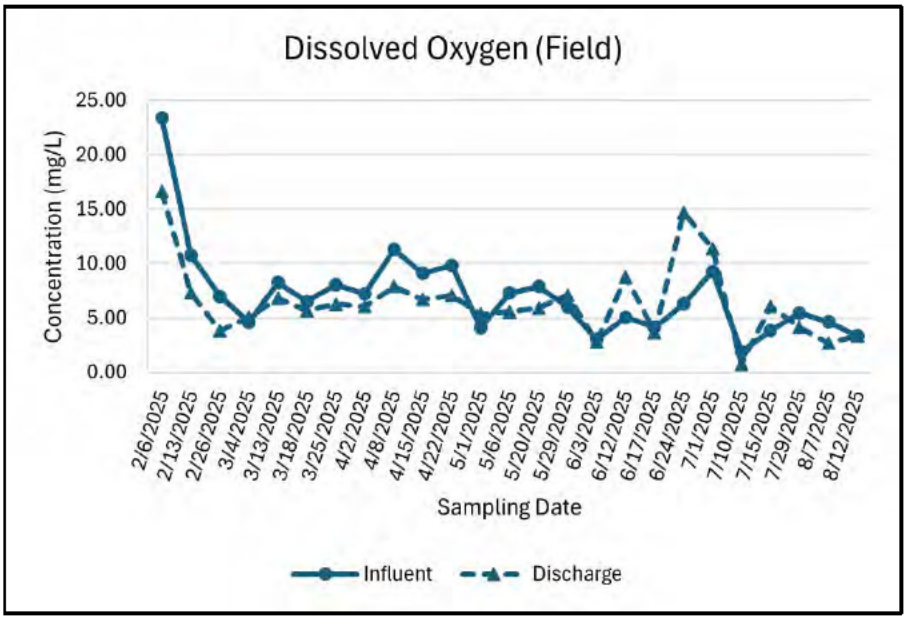
Figure 6. Density Graph



3.4.2 Dissolved Oxygen

Generally, the discharge dissolved oxygen (DO) measurements were less than the influent DO measurements. At the start of the Demonstration Plant's operation, more groundwater than North Arm brine was processed, resulting in higher DO levels (Figure 7).

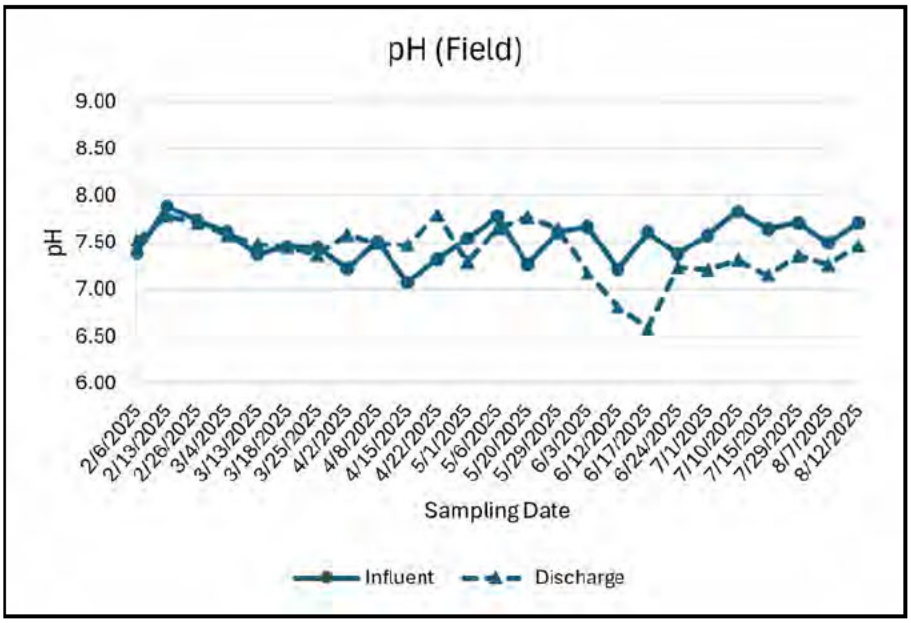
Figure 7. Dissolved Oxygen Graph



3.4.3 pH

Field measurements of pH for both the influent and discharge flows met the UPDES permit limit range of 6.5–9 (Figure 8).

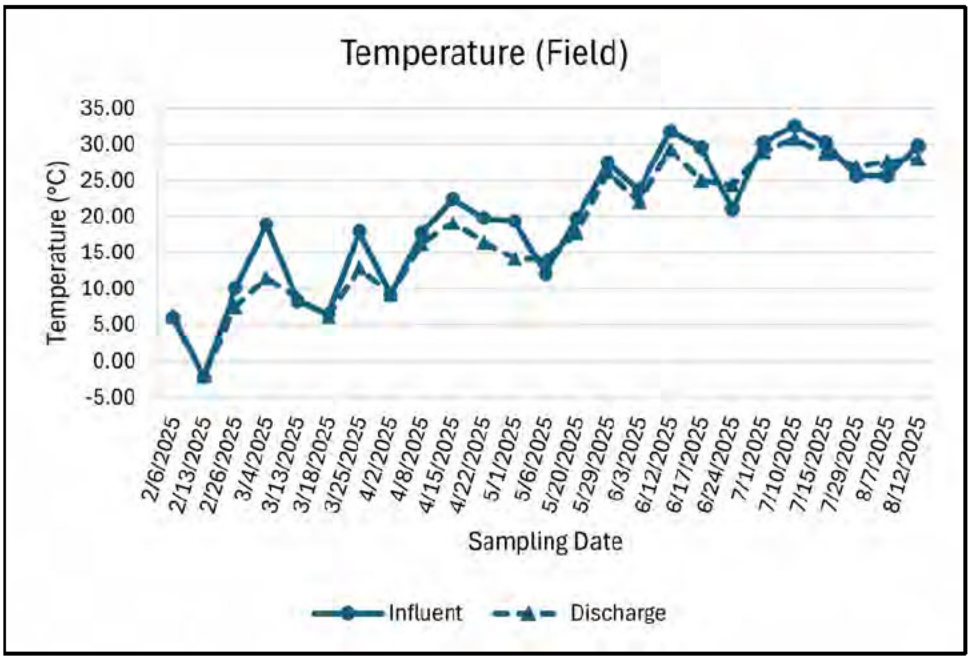
Figure 8. pH Graph



3.4.4 Temperature

Influent and discharge flow temperature measurements rose over the operation of the Demonstration Plant, following the expected seasonal warming of North Arm brine between February and August (Figure 9).

Figure 9. Temperature Graph



3.4.5 Influent and Discharge Water Salinity

HDR collected and reported the density at the intake and outfall locations during the Demonstration Plant's operation. These measurements were taken using an Anton Paar density meter. Per UDWQ rules, the Demonstration Plant cannot negatively alter the salinity of the North Arm of the GSL (UAC R317-16-2(16)(a)).

The GSL's salinity values were calculated using the formula below and documented in Open-File Report 0728, *Standard Operating Procedure – Great Salt Lake Water Density Measurement and Salinity Calculation* (UGS 2020).

$$S=\frac{\left(\left(\sqrt{\left(\left((1.04708-(0.00112*T))^{2}\right)-\left(4*0.000314721*(-(\rho*1000)+(\rho^{0}*1000)+(0.00199*T^{2})-(1.21061*T)+184.01602)\right)\right)}\right)+\left(-(1.104708-(0.00112*T))\right)\right)}{(2*0.000314721)}$$

ρ = density of GSL water (g/cm^3)
ρ^0 = density of pure water (g/cm^3)
S = salinity (g/L)
T = water temperature (°K)

However, as described in Open-File Report 0728, this salinity calculation is specific to typical South Arm densities, or salinity values up to about 18%. For salinity values above 18%, the result "shall be noted as outside the salinity range used to develop the GSL Equation of State" (UGS 2020). In 2023, the U.S. Geological Survey (USGS) published a data release that increased the upper boundary of the GSL salinity equation to 1.214.

Because the North Arm densities exceed this upper boundary, the equation is not validated to calculate North Arm salinity values (USGS 2023). Therefore, the salinity values were not calculated for this report, and Waterleaf compared density values as a surrogate value for salinity. This analysis is provided to support the determination that the Demonstration Project did not negatively alter the salinity (density) of the GSL.

Density profile data are shown in Figure 6 above for the influent and discharge flows for each monitoring event. Table 12 on the following page shows the influent and discharge density values as measured. Waterleaf asserts that the discharge from the Demonstration Plant did not affect the overall density of the North Arm. This is based on (1) the density measurements made and (2) a comparison of the total volume of discharge (3.48 acre-feet [af]) to the total volume of the North Arm of about 3.25 million acre-feet (maf), at an average WSE of 4,192 feet mean sea level during the Demonstration Plant's operation (USGS 2006), as shown in Figure 10 below.

Figure 10. North Arm Volume

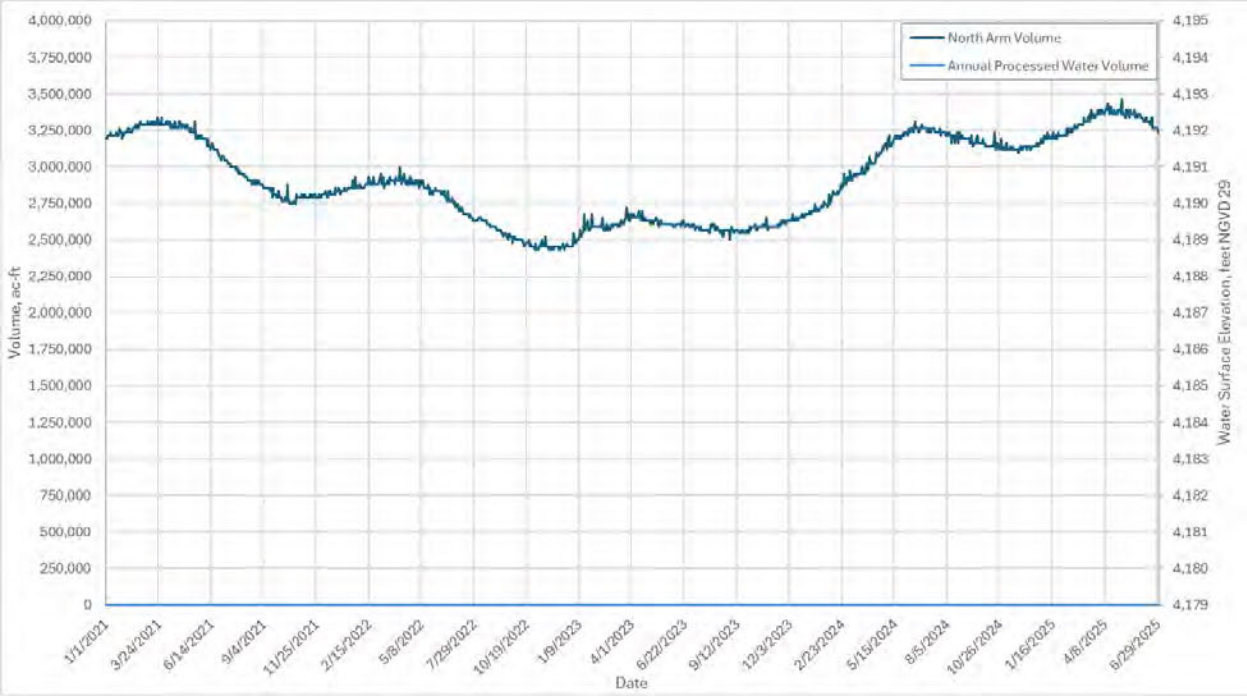


Table 12. Influent and Discharge Density Results

Date	Influent Density	Discharge Density
2/6/25	1.216	1.183
2/13/25	1.181	1.171
2/20/25	No discharge	
2/26/25	1.215	1.171
3/4/25	1.215	1.177
3/13/25	1.213	1.183
3/18/25	1.190	1.189
3/25/25	1.213	1.197
4/2/25	1.213	1.203
4/8/25	1.212	1.204
4/15/25	1.213	1.213
4/22/25	1.213	1.210
5/1/25	1.202	1.201
5/6/25	1.213	1.205
5/12/25	No discharge	
5/20/25	1.212	1.198
5/29/25	1.205	1.206
6/03/25	1.214	1.193
6/12/25	1.188	1.174
6/17/25	1.204	1.205
6/24/25	1.178	1.201
7/1/25	1.210	1.196
7/10/25	1.211	1.204
7/15/25	1.213	1.204
7/22/25	No discharge	
7/29/25	1.204	1.197
8/7/25	1.210	1.203
8/12/25	1.216	1.215

4 Flow Monitoring Results

In accordance with the UPDES permit requirements, continuous influent and discharge flow monitoring results were used to determine average weekly and monthly maximum and average flows. These data were used to calculate average weekly and annual loads. These flow values were used to calculate monthly volumes for the influent and discharge.

Instantaneous flow monitoring results are documented on weekly field data sheets and were used to determine flow-weighted composite sampling.

In addition, groundwater added to the process was recorded.

4.1 Monthly Volume Results

Continuous flow monitoring during the Demonstration Plant's operation recorded a final influent volume of 3.35 af and a final discharge volume of 3.48 af. Monthly average flows and volumes are shown in Table 13.

Table 13. Demonstration Plant Influent and Discharge Flow Volume

Month	Total Volume (af)	
	Influent	Discharge
February 2025	0.306	0.238
March 2025	0.201	0.237
April 2025	0.662	0.694
May 2025	0.427	0.431
June 2025	0.644	0.627
July 2025	0.730	0.781
August 2025	0.385	0.470
Total	**3.355**	**3.477**

Definitions: af = acre-feet

4.2 Total Water Balance

Total water is defined as sum of the brine and externally sourced water (UAC R317-16-2(21)). The Demonstration Plant's total water balance is provided below based on data from the intake and outfall continuous flow meters. The discharge volume includes the flow from the externally sourced groundwater.

- North Arm brine influent volume: 3.355 af
- Externally sourced groundwater: 0.265 af
- Discharge volume to North Arm: 3.477 af

The water balance shows that about 4% of the brine and groundwater flow is not discharged. This residual water was retained in the lithium sulfate product, which is a liquid. The lithium sulfate was shipped off site for further processing into the lithium carbonate equivalent product, which is a powder.

Based on USGS bathymetric and topographic data, the North Arm's volumes at WSEs of 4,190 and 4,198 feet (NVGD 1929) are 2.7 maf and 4.9 maf, respectively (USGS 2006). As of June 25, 2025, the North Arm's WSE was about 4,192.1 feet, and the North Arm had a volume of 3,241,855 af (USGS 2025).

5 Biota Monitoring Results

Three monitoring events were conducted by Dr. Bonnie Baxter of Westminster University during the Demonstration Plant's operation (Baxter 2025). By design, the first monitoring event occurred during the first month of operation, and the second monitoring event occurred 2 months later. The third monitoring event was added during the summer as the algae community began to grow as a result of the warmer brine temperatures. The first monitoring event occurred on February 28, 2025, during week 4 of operation; the second on April 24, 2025, during week 12 of operation; and the third on June 23, 2025, during week 21 of operation. The study design captured seasonal biota presence in the North Arm and the plant's discharge during its operation. This section summarizes the biota monitoring report, which is provided as Appendix C, *Biota Monitoring Report*.

In summary, North Arm biota were present in both the influent and discharge flows collected during all monitoring events, and the abundance and diversity of biota in the samples varied seasonally, as anticipated. The growth rates of biota in the influent, discharge, and mixed samples were similar. The study provides evidence that the Demonstration Plant's DLE process does not harm North Arm biota.

5.1 Presence of Biota

A hemacytometer (which provides a grid and special cover glass to control the distributed volume) was used to estimate the cell density in each of the influent and discharge samples. The results are shown in Table 14. The first samples, from February, demonstrated a robust cell density in the influent sample, but the discharge sample (with observed rust flakes) had few if any visible cells. The April samples had comparable numbers of cells in the discharge as in the influent, and the cells-per-milliliter counts were in the billions. The June samples had more cells in the influent than in the discharge. This decrease is mostly due to the presence of algae (which was not present in February and April) in the influent and reduced numbers in the discharge due to filtration. By comparing influent and discharge samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell count for archaea, bacteria, or fungi; algae reductions, when they occurred, were due to filtration.

Table 14. Biota Cell Counts and Dry Weight

Month	Number of Cells Observed via Hemacytometer (cells per mL)		Dry Weight of Biota (g/L)	
	Influent	Discharge	Influent	Discharge
February 2025	2.8×10^8	None observed[1]	Not analyzed	
April 2025	3.6×10^9	4.6×10^9	3.7	4.5
June 2025	8.1×10^9	5.3×10^9	5.2	4.2

Definitions: g/L = grams per liter; mL = milliliters

1. Although no cells were observed using the hemacytometer, DNA sequencing revealed the presence and abundance of archaea, bacteria, and fungi in the discharge sample.

5.2 Biota Diversity

To document the species of biota that are present in both the influent and discharge flows, a consulting laboratory was contracted for DNA sequencing. The laboratory amplified DNA genes (16S rRNA, 18S rRNA, or ITS) associated with bacteria, archaea, algae, or fungi. The DNA is very specific to communities that might be present in North Arm brine. For the February and April monitoring events, archaea, bacteria, and fungi were present and abundant, but algae was not present. This is to be expected because the colder temperatures of North Arm brine in February and April do not support algae communities. Algae communities were observed in samples from the June monitoring event.

This analysis provides the relative abundance of the specific biota. It is important to note that the abundance is relative to other species in the influent or discharge samples, but no comparison of the influent to the discharge is valid. The abundance of archaea, bacteria, and fungi for the April monitoring event is shown in Figure 11. The abundance of archaea and bacteria (prokaryotes) and algae (eukaryotes) for the June monitoring event is shown in Figure 12.

By comparing influent and discharge (effluent) flow samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell diversity in the North Arm of the GSL for archaea, bacteria, and fungi species. These biota are not affected by the DLE processes, including filtration, due to the small size (1–2 microns) of the individual organisms. When algae species are present during the warm summer months, the number of species is reduced by the filtration process due to the larger size (10–20 microns) of the individual organisms.

Figure 11. April 2025 Biota Abundance Graphs

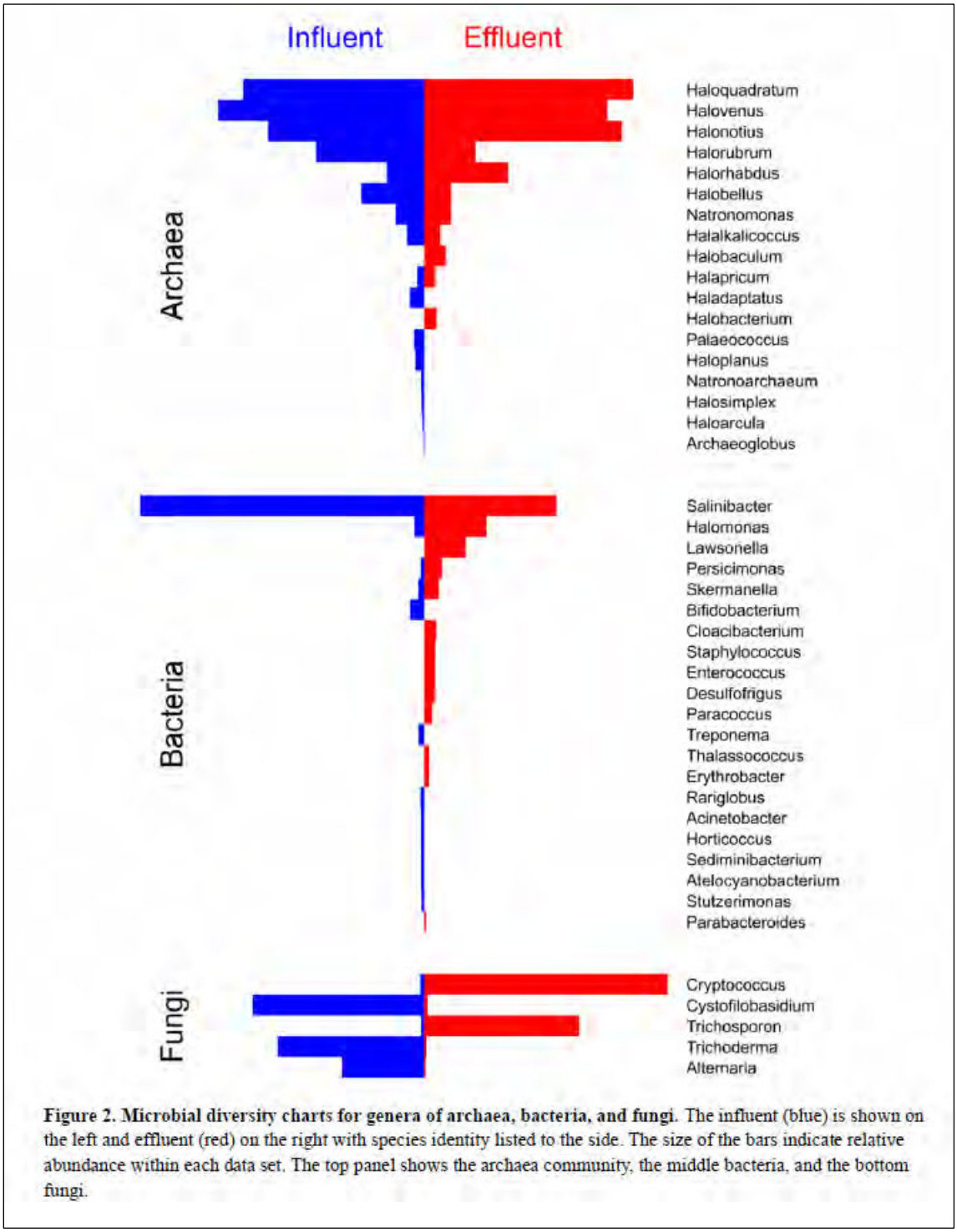


Figure 2. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Figure 12. June 2025 Biota Abundance Graphs

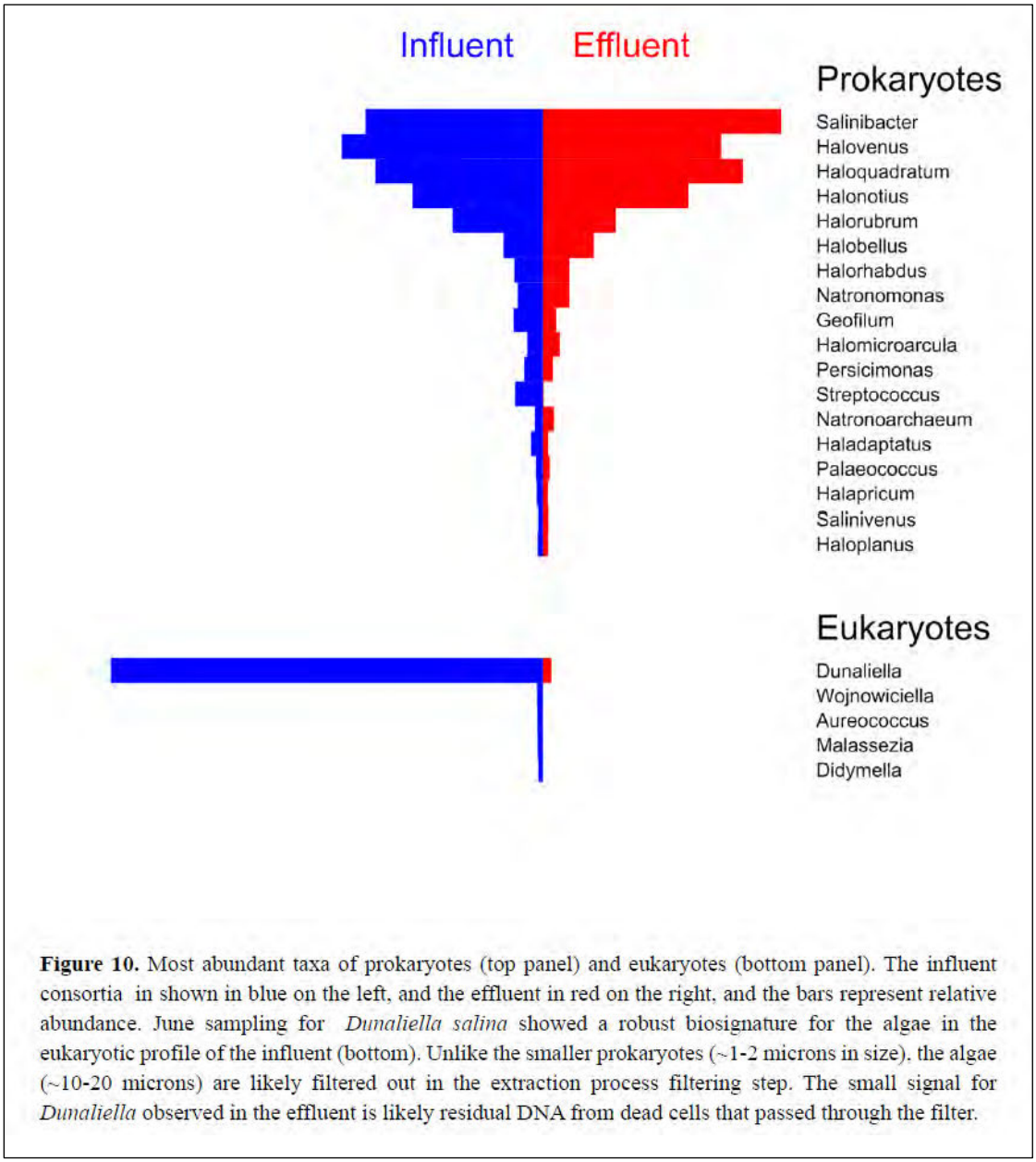


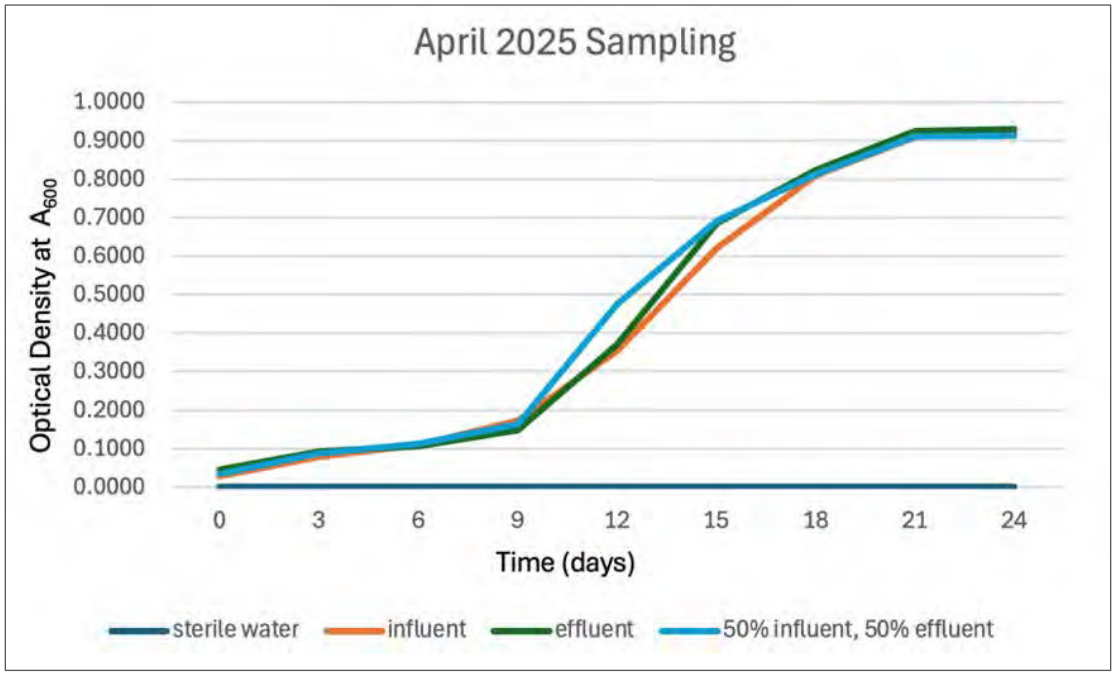
Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

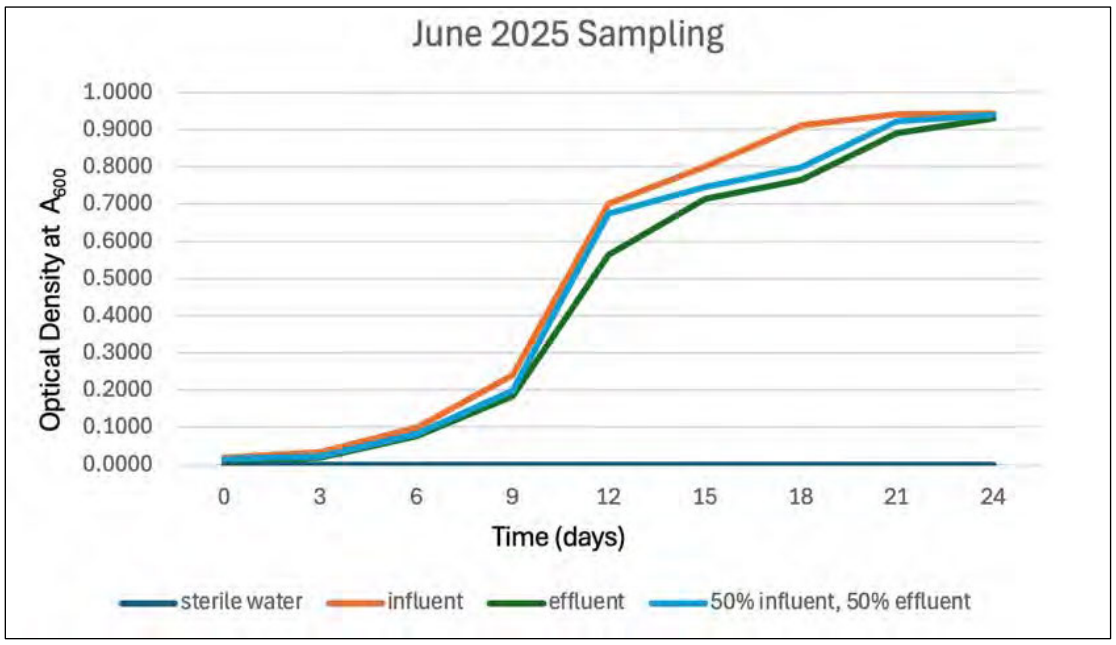
5.3 Biota Growth in Discharge

To understand the effects of discharges into the North Arm on biota growth, a time course growth experiment was conducted on influent, discharge, or a mix of the influent and discharge (representing North Arm brine after discharge). The protocol that was used consisted of inoculating 9 milliliters (mL) of 23% salt modified growth media (Dyall-Smith 2009) with 1 mL of sample. The inoculated samples consisted of (1) sterile deionized water serving as a control, (2) influent flow, (3) discharge (effluent) flow, and (4) a 50:50 mix of influent and discharge, which represents the in-lake mixture of discharge and brine.

Figure 13 shows the growth curves of the samples collected during the April and June monitoring events. All samples follow a standard growth curve. The microbial communities appear to have reached a stationary growth phase over this period of study. This is expected of healthy cultures. Also note that the sample representing the North Arm brine mixed with the discharge flow did not visibly affect growth of the biota. By comparing influent, discharge, and mixture sample results, this analysis provides evidence that the Demonstration Plant's DLE process does not prevent biota cell growth in the North Arm of the GSL.

Figure 13. April and June 2025 Biota Growth Results





6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation

Waterleaf evaluated the results of the chemistry and biota analyses to determine whether negative impacts on the North Arm's chemistry and biota occurred during the operation of the Demonstration Plant.

Negative impact is defined by UDWQ R317-16-16 to include the following evaluation criteria:

> Negative impact includes any activity or action that:
>
> - Causes pollution, or negatively alters the salinity or other aspects of water chemistry in Great Salt Lake;
> - Negatively alters the volume or timing of water flows to Great Salt Lake, or water levels in Great Salt Lake or Great Salt Lake wetlands;
> - Reduces, degrades, or otherwise negatively alters habitat in and around Great Salt Lake; or
> - Results in harmful physiological impacts to Great Salt Lake biota, including disruptions to survival, reproduction, or growth.

Waterleaf asserts no negative impacts on the North Arm of the GSL based on the above criteria. These evaluation criteria are discussed below.

6.1 Impacts on North Arm Salinity or Water Quality Chemistry

Waterleaf asserts that there were no negative impacts on North Arm salinity or water quality chemistry from operation of the Demonstration Plant, based on the results, analysis and review provided in Section 3.3, *Chemistry Monitoring Results Discussion and Graphs*. This assertion is based on the following:

- Compliance monitoring met the requirements of the UPDES permit for protecting the beneficial uses of the North Arm of the GSL. No water quality standards were exceeded.
- The incremental decrease in volume discharged (0.142 af; influent and groundwater volume subtracted from discharge volume) compared to the total volume of the North Arm of the GSL (3.24 maf) indicates that the Demonstration Plant's retained volume is *de minimis* and would not impact North Arm salinity or water quality.
- The Demonstration Plant's operation was temporary (7 months).
- The results of the compliance monitoring analysis, comparing average discharge concentrations to average influent concentrations and MDLs, uncertainty and error consideration, association of specific monitoring results due to operational phases, comparison of the mass load to the North Arm from Demonstration Plant operations to existing North Arm mass loads, and results of the biota monitoring study provide evidence that the Demonstration Plant did not harm North Arm water quality.

- Manganese, a component of the DLE process, had higher average discharge concentrations compared to the average influent concentrations. Examination of federal and state standards for lake recreational contact revealed that no standards or guidelines exist. Discharge concentrations are well below federal guidelines for dermal exposure due to showering in drinking water.
- The density of the North Arm discharge did not vary significantly from the density of the influent. This data shows that the density (salinity) of the North Arm was not changed due to the operation of the Demonstration Plant.

6.2 Impacts on North Arm Volume, Flows, or Water Levels

Waterleaf asserts that there were no negative impacts on North Arm volume, flows, or water levels from operation of the Demonstration Plant. This assertion is based on continuous flow monitoring data collected during operation of the Demonstration Plant. The flow monitoring data documented that the influent and discharge flows were comparable during operation. The Demonstration Plant diverted raw brine directly from the open waters of the GSL and discharged depleted brine back to the open waters of the GSL. The processing time from when the raw brine was diverted to when the depleted brine was discharged was less than 8 hours. The Demonstration Plant did not divert any surface water flows for its operation.

The results of the flow monitoring events are summarized in Section 4, *Flow Monitoring Results*.

Based on the Demonstration Plant's flow monitoring and the final water balance, the volume of North Arm raw brine diverted and groundwater added was documented to be discharged back to the North Arm, less water lost to processing the product. The amount of water (about 0.142 af) used to produce the liquid product is considered by Waterleaf to be *de minimis* compared to the 3.24 maf in the North Arm (at a WSE of 4,192 feet). Because no surface waters were diverted, the Demonstration Plant did not alter the timing of water flows to the North Arm of the GSL.

Waterleaf asserts that the Demonstration Plant did not alter the volume or timing of water flows to the GSL or the water levels in the GSL or GSL wetlands.

6.3 Impacts on North Arm Habitat

Waterleaf asserts that there were no negative impacts on North Arm habitat. This assertion is based on evaluating the presence of microbialites that could be present or could grow in and along the open waters of the GSL. Based on the survey conducted on the intake and outfall pipe easements before construction of the Demonstration Plant, no microbialite structures were identified (HDR 2024).

Therefore, Waterleaf asserts that the Demonstration Plant did not reduce, degrade, or otherwise negatively alter habitat in and around the North Arm of the GSL.

6.4 Impacts on North Arm Biota

To evaluate impacts on North Arm biota, Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to conduct biota monitoring during operation of the Demonstration Plant (Baxter 2025). The biota monitoring documented the presence and abundance of biota (archaea, bacteria, algae, and fungi) in the influent to and the discharge from the Demonstration Plant during its operation. The study also investigated whether biota could reproduce and grow in the discharge water from the Demonstration Plant.

The results of the biota analyses are summarized in Section 5, *Biota Monitoring Results*, and the complete report is provided as Appendix C, *Biota Monitoring Report*.

Based on the biota monitoring study and results, North Arm biota were documented to be present and abundant in the raw brine influent and Demonstration Plant discharge water during its operation. Biota were also documented to grow and reproduce in the discharge water from the Demonstration Plant. Therefore, Waterleaf asserts that the Demonstration Plant did not disrupt survival, reproduction, or growth of North Arm biota (archaea, algae, bacteria, and fungi) and did not have a negative impact on the biota of the North Arm of the GSL.

7 References

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2025 Estimates of Lithium, Magnesium and Potassium Resources in Great Salt Lake Brine. Open-File Report 769.

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2006 Calculation of Area and Volume for the North Part of Great Salt Lake, Utah. December.

2023 Density and Salinity Data to Validate an Equation of State for Hypersaline Water in Great Salt Lake, Utah, 2021–2022. November 13.

2025 Great Salt Lake Hydro Mapper [website]. https://webapps.usgs.gov/gsl/data.html. Accessed June 25, 2025.

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2025a Data Quality Objectives Memo. May 9.

2025b Great Salt Lake Lithium Feasibility Project – Final Report. October

APPENDIX A

UPDES Permit

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMITS

Minor Industrial Permit No. **UT0026280**

In compliance with provisions of the Utah *Water Quality Act*, *Title 19*, *Chapter 5*, *Utah Code* (the *"Act"*),

WATERLEAF RESOURCES, LLC (Permittee),

is hereby authorized to discharge from

GREAT SALT LAKE LITHIUM PROJECT (Facility),

to receiving waters named **GUNNISON BAY**, **THE GREAT SALT LAKE,**

in accordance with specific limitations, outfalls, and other conditions set forth herein.

This permit shall become effective on **February 4th, 2025.**

This permit expires at midnight on **February 4th, 2028.**

Signed this **fourth day of February 2025**.

John K. Mackey, P.E.
Director

DWQ-2024-000479

Table of Contents

Outline Page Number

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS 1
A. Description of Discharge Points 1
B. Narrative Standard 1
C. Specific Limitations and Self-Monitoring Requirements 1
D. Reporting of Monitoring Results 4
II. PRETREATMENT REQUIREMENTS 5
III. BIOSOLIDS REQUIREMENTS 8
A. Biosolids Treatment and Disposal 8
IV. STORM WATER REQUIREMENTS 9
V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS 10
A. Representative Sampling 10
B. Monitoring Procedures 10
C. Penalties for Tampering 10
D. Compliance Schedules 10
E. Additional Monitoring by the Permittee 10
F. Records Contents 10
G. Retention of Records 10
H. Twenty-four Hour Notice of Noncompliance Reporting 10
I. Other Noncompliance Reporting 11
J. Inspection and Entry 12
VI. COMPLIANCE RESPONSIBILITIES 13
A. Duty to Comply 13
B. Penalties for Violations of Permit Conditions 13
C. Need to Halt or Reduce Activity not a Defense 13
D. Duty to Mitigate 13
E. Proper Operation and Maintenance 13
F. Removed Substances 13
G. Bypass of Treatment Facilities 13
H. Upset Conditions 15
I. Toxic Pollutants 15
J. Changes in Discharge of Toxic Substances 15
VII. GENERAL REQUIREMENTS 17
A. Planned Changes 17
B. Anticipated Noncompliance 17
C. Permit Actions 17
D. Duty to Reapply 17
E. Duty to Provide Information 17
F. Other Information 17
G. Signatory Requirements 17
H. Penalties for Falsification of Reports 19
I. Availability of Reports 19
J. Oil and Hazardous Substance Liability 19
K. Property Rights 19
L. Severability 19
M. Transfers 19
N. State or Federal Laws 19
O. Water Quality - Reopener Provision 20
P. Biosolids – Reopener Provision ..... **Error! Bookmark not defined.**
Q. Toxicity Limitation - Reopener Provision 20

VIII. DEFINITIONS 21
A. Wastewater 21

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS

A. Description of Discharge Points. The authorization to discharge wastewater provided under this part is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit are violations of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

Outfall Number	Location of Discharge Outfall
001	Discharge to Gunnison Bay, Great Salt Lake. Located at latitude 41° 26' 44.16" and longitude 112° 41' 36.04".

B. Narrative Standard. It shall be a violation of this permit, for Permittee to discharge effluent or place any waste, pollutant, or other substance into Waters of the State in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum, or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life, objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by a bioassay or other tests performed in accordance with standard procedures.

C. Specific Limitations and Self-Monitoring Requirements.

1. Effective immediately, and lasting through the life of this permit, there shall be no acute or chronic toxicity in Outfall 001 as defined in *Part VIII*.

2. Discharge Limitations and Reporting Requirements:

   a. The limitations specified in this section shall be applied on a net basis, unless otherwise noted, if the source of the applicant's water supply is the same body of water into which the discharge is made. With the exception of calcium, there shall be no discharge of process wastewater pollutants into navigable waters. See Fact Sheet Statement of Basis for more information.
   b. Permittee must notify the Division of Water Quality (DWQ) fourteen (14) days prior to discharge. From the date the Permittee begins discharge, Permittee will be authorized to discharge from Outfall 001 for twelve (12) consecutive months only.
   c. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Effluent Limitations *a				
	Maximum Weekly Avg	Annual Load	Weekly Load	Daily Minimum	Daily Maximum
Total Flow *b, *c, *d Demonstration Plant	0.06	--	--	--	0.12
Temperature *d	Report	--	--	--	Report
pH, Standard Units	--	--	--	6.5	9
Oil & Grease	--	--	--	--	10.0
Total Alkalinity, *d	Report	--	--	--	Report
Total Dissolved Solids *d	Report	--	--	--	Report
Total Suspended Solids *d	Report	--	--	--	Report

Sulfate *d	Report	--	--	--	Report
Nitrate *d	Report	--	--	--	Report
Nitrite *d	Report	--	--	--	Report
Carbonate *d	Report	--	--	--	Report
Hydroxide *d	Report	--	--	--	Report
Chemical Oxygen Demand *d	Report	--	--	--	Report
Biological Oxygen Demand *d	Report	--	--	--	Report
Silica *d	Report	--	--	--	Report
Sodium *d	Report	--	--	--	Report
Calcium *d *e	Report	--	--	--	Report
Potassium *d	Report	--	--	--	Report
Boron *d	Report	--	--	--	Report
Bromine *d	Report	--	--	--	Report
Silicon *d	Report	--	--	--	Report
Total Lithium *d	Report	--	--	--	Report
Total Arsenic *d, *f	--	*g	*h	--	--
Total Cadmium *d, *f	--	*g	*h	--	--
Total Chromium *d, *f	--	*g	*h	--	--
Total Copper *d, *f	--	*g	*h	--	--
Total Lead *d, *f	--	*g	*h	--	--
Total Molybdenum *d, *f	--	*g	*h	--	--
Total Nickel *d, *f	--	*g	*h	--	--
Total Selenium *d, *f	--	*g	*h	--	--
Total Silver *d, *f	--	*g	*h	--	--
Total Zinc *d, *f	--	*g	*h	--	--
Total Cyanide *d, *f	--	*g	*h	--	--
Total Mercury *d, *f	--	*g	*h	--	--

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c, *d	Continuous	Recorder	MGD
pH	Weekly	Instantaneous	SU
DO	Weekly	Instantaneous	mg/L
Temperature *d	Weekly	Instantaneous	mg/L
Oil & Grease *i	Weekly	Grab	mg/L
Total Alkalinity, *d	Weekly	Composite	mg/L
Total Dissolved Solids *d	Weekly	Composite	mg/L
Total Suspended Solids *d	Weekly	Composite	mg/L
Sulfate *d	Weekly	Composite	mg/L
Nitrate *d	Weekly	Composite	mg/L
Nitrite *d	Weekly	Composite	mg/L
Carbonate *d	Weekly	Composite	mg/L
Hydroxide *d	Weekly	Composite	mg/L
Chemical Oxygen Demand *d	Weekly	Composite	mg/L
Biological Oxygen Demand *d	Weekly	Composite	mg/L
Silica *d	Weekly	Composite	mg/L
Sodium *d	Weekly	Composite	mg/L
Calcium *d, *e	Weekly	Composite	mg/L
Potassium *d	Weekly	Composite	mg/L
Boron *d	Weekly	Composite	mg/L

Bromine *d	Weekly	Composite	mg/L
Silicon *d	Weekly	Composite	mg/L
Total Lithium *d	Weekly	Composite	mg/L
Total Arsenic	Weekly	Composite	mg/L, kg/day
Total Cadmium	Weekly	Composite	mg/L, kg/day
Total Chromium	Weekly	Composite	mg/L, kg/day
Total Copper	Weekly	Composite	mg/L, kg/day
Total Lead	Weekly	Composite	mg/L, kg/day
Total Molybdenum	Weekly	Composite	mg/L, kg/day
Total Nickel	Weekly	Composite	mg/L, kg/day
Total Selenium	Weekly	Composite	mg/L, kg/day
Total Silver	Weekly	Composite	mg/L, kg/day
Total Zinc	Weekly	Composite	mg/L, kg/day
Total Cyanide	Weekly	Composite	mg/L, kg/day
Total Arsenic	Yearly	Composite	kg/year
Total Cadmium	Yearly	Composite	kg/year
Total Chromium	Yearly	Composite	kg/year
Total Copper	Yearly	Composite	kg/year
Total Lead	Yearly	Composite	kg/year
Total Molybdenum	Yearly	Composite	kg/year
Total Nickel	Yearly	Composite	kg/year
Total Selenium	Yearly	Composite	kg/year
Total Silver	Yearly	Composite	kg/year
Total Zinc	Yearly	Composite	kg/year
Total Cyanide	Yearly	Composite	kg/year

*a See Definitions, *Part VIII*, for definition of terms.
*b Flow measurements of influent/effluent volume shall be made in such a manner that Permittee can affirmatively demonstrate that representative values are being obtained.
*c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.
*d In addition to monitoring the final discharge, influent samples shall be taken and analyzed for this constituent at the same frequency as required for this constituent in the discharge.
*e Discharge of calcium is allowed as a process wastewater pollutant. See Fact Sheet Statement of Basis for more information.
*f The minimum detection limit (MDL) of the test method used for analysis must be below this limit in mg/L. If a test method is not available, Permittee must submit documentation to the Director regarding the method that will be used. Total Arsenic 0.180 mg/L, Total Cadmium 0.0052 mg/L, Total Chromium 0.0166 mg/L, Total Copper 0.067 mg/L, Total Lead 0.0465 mg/L, Total Molybdenum NA, Total Nickel 0.376 mg/L, Total Selenium 0.0079 mg/L, Total Silver 0.0899 mg/L, Total Zinc 0.675 mg/L, Total Cyanide 0.0093 mg/L, Total Mercury 0.000022 mg/L.
*g The average annual load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/year.
*h The average weekly load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/day.
*i Oil & Grease sampled when sheen is present or visible. If no sheen is present or visible, report NA.

d. As authorized in Part VII.E.:
   (1) Permittee shall establish laboratory quality performance for the Great Salt Lake North Arm matrix as soon as possible, and present and review the laboratory quality performance with the Director.
      (a) Based on the laboratory quality performance, Permittee shall work with the Director to define suitable data quality objectives for the Demonstration Plant, that evidence protection of Great Salt Lake

chemistry and biota. Following the work with the Director, Permittee shall formalize the recommended data quality objectives, in writing, and submit to the Director prior to completion of testing at the Demonstration Plant.

(2) Permittee shall submit a Level IV data quality package with each compliance sample.

(3) Permittee shall coordinate with DWQ on the collection and delivery of a split sample for each compliance sample taken. Permittee shall handle and deliver split samples using proper chain of custody procedures as described in 40 C.F.R. § 136.

D. Reporting of Monitoring Results.

1. Reporting of Wastewater Monitoring Results Monitoring results obtained by the Permittee during the previous month shall be summarized for each month and reported to DWQ on a Discharge Monitoring Report Form (EPA No. 3320-1)* or by NetDMR, post-marked or entered into NetDMR no later than 28 days after the last day of the reporting period. The first report is due on **March 28, 2025**. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports including whole effluent toxicity (WET) test reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part VII.G*), and submitted by NetDMR, or to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
PO Box 144870
Salt Lake City, Utah 84114-4870

* Starting January 1, 2017 monitoring results must be submitted using NetDMR unless Permittee has successfully petitioned for an exception.

II. PRETREATMENT REQUIREMENTS

A. Definitions. For this section, the following definitions shall apply:

1. *Indirect Discharge* means the introduction of pollutants into a publicly-owned treatment works (POTW) from any non-domestic source regulated under section 307 (b), (c) or (d) of the CWA.

2. *Interference* means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

   a. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and

   b. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

3. *Pass Through means* a Discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

4. *Publicly Owned Treatment Works* or *POTW* means a treatment works, as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the CWA). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality, as defined in section 502(4) of the CWA, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

5. *Significant Industrial User (SIU)* is defined as an Industrial User discharging to a POTW that satisfies any of the following:

   a. Has a process wastewater flow of 25,000 gallons or more per average work day;

   b. Has a flow greater than five percent of the flow carried by the municipal system receiving the waste;

   c. Is subject to Categorical Pretreatment Standards, or

   d. Has a reasonable potential for adversely affecting the operation of the POTW or violating any pretreatment standard or requirement.

6. *User or Industrial User (IU)* means a source of Indirect Discharge.

B. Discharge to POTW. Any wastewaters discharged to a Publicly Owned Treatment Works (POTW), either as an Indirect Discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of The Water Quality Act of 1987, Permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at 40 CFR 403, the State Pretreatment Requirements at Utah Administrative Code (UAC) R317-8-8, and any specific local discharge limitations developed by the POTW accepting the wastewaters. At a minimum, the discharge into a POTW must meet the requirements of Part II. C., D. and E. of the permit.

C. Hazardous Waste Notification. Permittee must notify the POTW, the EPA Regional Waste Management Director, the Director and the State hazardous waste authorities in writing if they discharge any substance into a POTW that, if otherwise disposed of, would be considered a hazardous waste under 40 CFR 261. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

D. General and Specific Prohibitions.

1. General Prohibitions. Permittee may not introduce into a POTW any pollutant(s) which cause Pass Through or Interference. These general prohibitions and the specific prohibitions in II. D. 2. of this section apply to the introducing pollutants into a POTW whether or not Permittee is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

2. Specific Prohibitions. The following pollutants shall not be introduced into a POTW:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140˚F (60˚C);

   b. Pollutants, which will cause corrosive structural damage to the POTW, but in no case, discharges with a pH lower than 5.0;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;

   d. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at such volume or strength as to cause Interference in the POTW;

   e. Heat in amounts, which will inhibit biological activity in the POTW, resulting in Interference, but in no case, heat in such quantities that the influent to the sewage treatment works exceeds 104˚F (40˚C));

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants, which result in the presence of toxic gases, vapor, or fumes within the POTW in a quantity that may cause worker health or safety problems;

   h. Any trucked or hauled pollutants, except at discharge points designated by the POTW; or

   i. Any pollutant that causes Pass Through or Interference at the POTW.

j. Any specific pollutant which exceeds any Local Limitation established by the POTW.

E. Categorical Standards. In addition to the general and specific limitations expressed in *Part II. D.* of this section, applicable National Categorical Pretreatment Standards must be met by all Industrial Users discharging into a POTW. These standards are published in the federal regulations at *40 CFR 405 through 471*.

III. BIOSOLIDS REQUIREMENTS

A. Biosolids Treatment and Disposal. UAC R317-8-1.10 regulates the disposal of sewage sludge (biosolids), which incorporates the federal standards found in 40 CFR Part 503 by reference. However, this is an industrial facility that does not regularly produce regulated biosolids. Therefore, R317-8-1.10 does not apply at this time.

B. Biosolids – Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate biosolids limitations (and compliance schedule, if necessary), management practices, other appropriate requirements to protect public health and the environment, or if there have been substantial changes (or such changes are planned) in biosolids use or disposal practices; applicable management practices or numerical limitations for pollutants in biosolids have been promulgated which are more stringent than the requirements in this permit; and/or it has been determined that Permittee's biosolids use or land application practices do not comply with existing applicable state of federal regulations.

IV. STORM WATER REQUIREMENTS.

A. Industrial Storm Water Permit. Based on the type of industrial activities occurring at the Permitted Facility, Permittee is required to maintain separate coverage or an appropriate exclusion under the Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activities (UTR000000). If the Permitted Facility is not already covered, Permittee has thirty (30) days from when this permit is issued to submit the appropriate Notice of Intent (NOI) for the MSGP or exclusion documentation.

B. Construction Storm Water Permit. Any construction at the Permitted Facility that disturbs an acre or more of land, including less than an acre if it is part of a common plan of development or sale, is required to obtain coverage under the UPDES Construction General Storm Water Permit (UTRC00000). Permittee must obtain permit coverage prior to land disturbance. If the site qualifies, the Permittee may submit a Low Erosivity Waiver (LEW) Certification instead of permit coverage.

V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS

A. Representative Sampling. Permittee shall collect samples in compliance with the monitoring requirements established under *Part I* from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Samples of biosolids shall be collected at a location representative of the quality of biosolids immediately prior to the use-disposal practice.

B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under UAC R317-2-10, UAC R317-8-4.1(10)(d), and/or 40 CFR § 503 utilizing sufficiently sensitive test methods unless other test procedures have been specified in this permit. Monitoring must be conducted according to the test procedures listed above unless another method is required under 40 CFR Chapter I subchapters N or O. Sufficiently sensitive test method means: (1) The method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or (2) The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O for the measured pollutant or pollutant parameter as per 40 CFR 122.44(i)(1)(iv)(A).

C. Penalties for Tampering. Utah Code § 19-5-115(4) of the Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per day of violation, or by imprisonment for not more than six (6) months per violation, or by both.

D. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

E. Additional Monitoring by the Permittee. If Permittee monitors any parameter more frequently than required by this permit, using test procedures approved under Permit Part V.B., the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or the Biosolids Report Form.

F. Records Contents. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements:
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

G. Retention of Records. Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location

H. Twenty-four (24) Hour Notice of Noncompliance Reporting.

1. In accordance with UAC R317-8-4, Permittee shall (orally) report any noncompliance which may endanger health or the environment, including transportation accidents, spills, and uncontrolled runoff from biosolids transfer or land application sites which may seriously endanger health or environment, as soon as possible, but no later than twenty-four (24) hours from the time Permittee first became aware of circumstances. The report shall be made to the DWQ via the 24-hour answering service (801) 536-4123.

2. The following occurrences of noncompliance shall initially be reported by telephone to the DWQ via the 24-hour answering service as soon as possible but no later than twenty-four (24) hours from the time Permittee becomes aware of the circumstances:

   a. Any noncompliance which may endanger health or the environment;

   b. Any unanticipated bypass, which exceeds any effluent limitation in the permit (See *Part VI.G, Bypass of Treatment Facilities.)*;

   c. Any Upset which exceeds any effluent limitation in the permit (See *Part VI.H, Upset Conditions*.);

   d. Violation of a daily discharge limitation for any of the pollutants listed in the permit. For other permit violations which will not endanger health or the environment, DWQ may otherwise be notified during business hours (801) 536-4300; or,

   e. Violation of any of the Table 3 metals limits, the pathogen limits, the vector attraction reduction limits or the management practices for biosolids that have been sold or given away.

3. A written submission shall also be provided within five (5) days of the time that Permittee becomes aware of the circumstances. The written submission shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times;

   c. The estimated time noncompliance is expected to continue if it has not been corrected;

   d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and,

   e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.

4. The Director may waive the written report on a case-by-case basis if the oral report has been received within twenty-four (24) hours by the Division of Water Quality, (801) 536-4300.

5. Reports shall be submitted to the addresses in *Part I.D, Reporting of Monitoring Results*.

I. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within twenty-four (24) hours shall be reported at the time that monitoring reports for *Part I.D* are submitted. The reports shall contain the information listed in *Part V.H.3.*

J. Inspection and Entry Permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director) upon the presentation of agency credentials and other documents as may be required by law, to:

1. Enter upon Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, including but not limited to, biosolids treatment, collection, storage facilities or area, transport vehicles and containers, and land application sites;

4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location, including, but not limited to, digested biosolids before dewatering, dewatered biosolids, biosolids transfer or staging areas, any ground or surface waters at the land application sites or biosolids, soils, or vegetation on the land application sites; and,

5. The Permittee shall obtain permission or clearance from the landowner or leaseholder, if the landowner is someone other than the Permittee, to permit the Director, or authorized representative, to access the permitted facilities and activities for entry and inspection. The Permittee shall make necessary arrangements with any legally interested parties so as to permit the Director, or authorized representative, to enter and inspect without delay.

VI. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply. Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of *the Act* and is grounds for administrative and civil enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Permittee shall give sufficient advance notice to the Director of any planned changes in the Permitted Facility or activity, which may result in noncompliance with permit requirements so as to provide the Director with adequate time to review the changes and potentially appropriate remedies.

B. Penalties for Violations of Permit Conditions. Utah Code § 19-5-115 of the *Act* provides that any person who violates a permit condition, rule, or order implementing provisions of the *Act* is subject to a civil penalty not to exceed $10,000 per day of such violation. Except as provided at *Part VI.G, Bypass of Treatment Facilities* and *Part VI.H, Upset Conditions*, nothing in this permit shall be construed to relieve Permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate. Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment. Permittee shall also take all reasonable steps to minimize or prevent any land application in violation of this permit.

E. Proper Operation and Maintenance. Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Removed Substances. Collected screening, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.

G. Bypass of Treatment Facilities.

1. Bypass Not Exceeding Limitations. Permittee may allow any bypass to occur which does not cause Permittee to exceed its permitted effluent limitations, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to paragraph 2 and 3 of this section.

2. Prohibition of Bypass.

a. In accordance with Utah Admin. Code R317-8-4.1, bypass is prohibited, and the Director may take enforcement action against Permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of human life, personal injury, or Severe Property Damage;

(2) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance, and

(3) Permittee submitted notices as required under *Part VI.G.3*.

b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in *Parts VI.G.2.a (1), (2) and (3).*

3. Notice.

a. *Anticipated bypass*. Except as provided above in *Part VI.G.2* and below in *Part VI.G.3.b,* if Permittee knows in advance of the need for a bypass, it shall submit prior notice, at least ninety (90) days before the date of bypass. The prior notice shall include the following unless otherwise waived by the Director:

(1) Evaluation of alternative to bypass, including cost-benefit analysis containing an assessment of anticipated resource damages:

(2) A specific bypass plan describing the work to be performed including scheduled dates and times. Permittee must notify the Director in advance of any changes to the bypass schedule;

(3) Description of specific measures to be taken to minimize environmental and public health impacts;

(4) A notification plan sufficient to alert all downstream users, the public and others reasonably expected to be impacted by the bypass;

(5) A water quality assessment plan to include sufficient monitoring of the receiving water before, during and following the bypass to enable evaluation of public health risks and environmental impacts; and,

(6) Any additional information requested by the Director.

b. *Emergency Bypass*. Where ninety (90) days advance notice is not possible, Permittee must notify the Director, and the director of the Department of Natural Resources, as soon as it becomes aware of the need to bypass and provide to the Director the information in *Part VI.G.3.a.(1) through (6)* to the extent practicable.

c. *Unanticipated bypass*. Permittee shall submit notice of an unanticipated bypass to the Director as required under *Part IV.H*, Twenty-Four Hour Reporting. Permittee shall also immediately notify the director of the Department of Natural Resources,

the public and downstream users through means reasonably calculated to provide adequate advance notice of the unanticipated bypass and shall implement measures to minimize impacts to public health, safety, and environment to the extent practicable.

H. Upset Conditions.

1. Effect of an Upset. An Upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of paragraph 2 of this section are met. Director's administrative determination regarding a claim of Upset cannot be judiciously challenged by Permittee until such time as an action is initiated for noncompliance.

2. Conditions necessary for a demonstration of Upset. A permittee who wishes to establish the affirmative defense of Upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An Upset occurred and that the permittee can identify the cause(s) of the Upset;

   b. The permitted Facility was at the time being properly operated;

   c. The permittee submitted notice of the Upset as required under *Part V.H, Twenty-four Hour Notice of Noncompliance Reporting*; and,

   d. The permittee complied with any remedial measures required under *Part VI.D, Duty to Mitigate.*

3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an Upset has the burden of proof.

I. Toxic Pollutants. Permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. § 1317,)(Section 307(a), *The Water Quality Act of 1987)* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

J. Changes in Discharge of Toxic Substances. Permittee shall provide notice to the Director as soon as Permittee knows of, or has reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. One hundred micrograms per liter (100 ug/L);

   b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,

d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. Five hundred micrograms per liter (500 ug/L);

   b. One milligram per liter (1 mg/L) for antimony:

   c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,

   d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

VII. GENERAL REQUIREMENTS

A. Planned Changes. Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the Permitted Facility. Notice is required only when:

1. The alteration or addition to a Permitted Facility may meet one of the criteria for determining whether a facility is a new source in 122.29(b); or

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit nor to notification requirements under Utah Admin. Code R317-8-4.1(15).

3. The alteration or addition results in a significant change in Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. Permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.

B. Anticipated Noncompliance. Permittee shall give advance notice to the Director of any planned changes to the Permitted Facility or activity, which may result in noncompliance with permit requirements.

C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply. If Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, Permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information. Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

F. Other Information. When Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.

G. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.

1. All permit applications shall be signed by either a principal executive officer, ranking elected official or duly authorized representative of the signatory. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described above and submitted to the Director, and,

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the Permitted Facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

(1) For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
   (a) A president, secretary, treasurer, vice-president or officer of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
   (b) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the Permitted Facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship. By a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
   (a) The chief executive officer of the agency, or
   (b) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person.

3. Changes to authorization. If an authorization under *Part VII.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the Permitted Facility, a new authorization satisfying the requirements of *Part VII.G.2.* must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant administrative, criminal and civil penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. Penalties for Falsification of Reports. Section 19-5-115(4) of the he *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than $10,000.00 per day of violation, or by imprisonment for not more than six months per violation, or by both.

I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.

J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude Permittee of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties to which Permittee is or may be subject under the *Act*.

K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers. This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;

2. The notice includes a written agreement between the existing and new permittee's containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,

3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph *2* above.

N. State or Federal Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by

Sections 19-5-117 and 510 of the Clean Water Act or any applicable Federal or State transportation regulations, such as but not limited to the Department of Transportation regulations.

O. Water Quality - Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:

1. Water Quality Standards for the receiving water(s) to which Permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.

2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.

3. Revisions to the current CWA § 208 areawide treatment management plans or promulgations/revisions to TMDLs (40 CFR 130.7) approved by the EPA and adopted by DWQ which calls for different effluent limitations than contained in this permit.

P. Toxicity Limitation - Reopener Provision. Use the following paragraph if WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include, whole effluent toxicity (WET) limitations, a compliance date, a compliance schedule, a change in the whole effluent toxicity (biomonitoring) protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants if one or more of the following events occur;

1. Toxicity is detected, as per *Part I.C.4.a/b* of this permit, during the duration of this permit.

2. The TRE results indicate that the toxicant(s) represent pollutant(s) or pollutant parameter(s) that may be controlled with specific numerical limits, and the Director concludes that numerical controls are appropriate.

3. Following the implementation of numerical control(s) of toxicant(s), the Director agrees that a modified biomonitoring protocol is necessary to compensate for those toxicants that are controlled numerically.

4. The TRE reveals other unique conditions or characteristics, which in the opinion of the permit issuing authority justify the incorporation of unanticipated special conditions in the permit.

Use the following paragraph if there is no WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include WET testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.

VIII. DEFINITIONS

A. Wastewater.

1. The “7-day (and weekly) average”, other than for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains Saturday.

2. The "30-day (and monthly) average," other than for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.

3. "Average annual discharge limit" means maximum allowable average of monthly discharges over a calendar year, calculated as the sum of all monthly discharges measured during a calendar year divided by the number of monthly discharges measured during the year. The timeframe is defined as from January 1st to December 31st.

4. “Act,” means the *Utah Water Quality Act*.

5. “Acute toxicity” occurs when 50 percent or more mortality is observed for either test species at any effluent concentration (lethal concentration or “LC_{50}”).

6. “Bypass,” means the diversion of waste streams from any portion of a treatment facility.

7. “Chronic toxicity” occurs when the IC_{25}< XX% effluent. The XX% effluent is the concentration of the effluent in the receiving water, at the end of the mixing zone expressed as per cent effluent.

8. "IC_{25}" is the concentration of toxicant (given in % effluent) that would cause a 25% reduction in mean young per female, or a 25% reduction in overall growth for the test population.

9. “Composite Samples” shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:

a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;

b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;

c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,

d. Continuous sample volume, with sample collection rate proportional to flow rate.

10. "CWA" means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.

11. "Daily Maximum" (Daily Max.) is the maximum value allowable in any single sample or instantaneous measurement.

12. "EPA," means the United States Environmental Protection Agency.

13. "Director," means Director of the Division of Water Quality.

14. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

15. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.

16. "Severe Property Damage," means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

17. "Upset," means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

APPENDIX B

Laboratory Data Results

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	MDL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25B0543-01	Water	Water	02/06/2025 09:58:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25B0543-02	Water	Water	02/06/2025 10:02:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:07:01	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	50.6	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.172	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	289	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	55.1	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	13300	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8600	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.4	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:03:00	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.62	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:06:52	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.092	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0754	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0412	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.127	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.29	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.298	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 15:53:00	02/07/2025 15:53:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	190000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	17800	247	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 18:24:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	165	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:10:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4750	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	55400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	378	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:16:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:26:10	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	10	2	5		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:24:59	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	103	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	46.7	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.142	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	276	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	1.1	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	45.4	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7670	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.3	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:23:06	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	67600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.429	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:09:24	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.104	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.13	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.224	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.112	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.279	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.268	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:08:00	02/07/2025 16:08:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14900	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 21:00:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	144	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:14:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4050	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	50800	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	278000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	404	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:20:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:28:34	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	6	2	5		mg/L	FALSE	NA	1					DRO																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25B1120-01	Water	Water	02/13/2025 16:10:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25B1120-02	Water	Water	02/13/2025 16:30:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 09:22:00	02/18/2025 12:01:30	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.7	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.9	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.278	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	313	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.2	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 10:48:52	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.462	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 15:41:50	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0276	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.0313	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.0408	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.136	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.032	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.106	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	185000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	10200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/22/2025 00:28:00	02/22/2025 00:28:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:49:00	02/21/2025 15:42:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	7020	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	530	3	4		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:10:00	02/14/2025 17:09:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 14:05:00	02/19/2025 13:33:23	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 09:22:00	02/18/2025 12:19:27	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	109	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	3.1	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:07:35	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	47.5	1.21	2.5		mg/L	FALSE	NA	50					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.322	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	275	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	16.4	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	54.8	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	11700	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	6990	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 10:59:16	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	71000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.298	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 15:43:09	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0328	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.136	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.91	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.0416	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.0992	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	144000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	13100	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/22/2025 01:40:00	02/22/2025 01:40:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:49:00	02/21/2025 15:47:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	3100	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	48700	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	287000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	454	4	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:10:00	02/14/2025 17:10:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 14:05:00	02/19/2025 13:36:18	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake-Grab	25B1871-01	Water	Water	02/25/2025 12:02:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall-Grab	25B1871-02	Water	Water	02/25/2025 12:04:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 10:05:00	02/27/2025 11:54:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	21.7	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.5	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	64.5	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	317	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	70.2	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	14100	4.8	10		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	8510	17.1	25		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 12:33:38	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	81100	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.486	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.0012	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0189	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0656	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0794	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.124	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.124	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0838	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 03:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	181000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	21400	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:15:00	02/26/2025 13:55:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	197	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	03/05/2025 11:30:00	03/05/2025 15:53:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	6700	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	59000	21.6	53.7		mg/L	FALSE	NA	10					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	35	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:31:00	02/26/2025 14:02:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:15:00	03/04/2025 10:39:40	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 10:05:00	02/27/2025 12:03:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	67.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	51.8	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	258	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	36.1	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	11600	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	6860	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 12:40:47	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	61400	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.211	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0161	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0604	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.361	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.0681	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.101	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0612	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 04:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	145000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	12600	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:15:00	02/26/2025 15:07:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	151	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	03/05/2025 11:30:00	03/05/2025 15:57:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2820	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	48600	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	262000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	39	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:31:00	02/26/2025 14:03:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 13:15:00	03/04/2025 10:43:23	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNU	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME		ANALYTE	Result	DL	RL	UNC	UNITS	RPTxMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUD	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake - Grab	25C0269-01	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall - Grab	25C0269-02	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 11:26	3/6/2025 12:26	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		28	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		59	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.18	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		292	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		0.8	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		64.9	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		13400	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		8490	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:48	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		80000	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.497	0.0044	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0012	0.005	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0201	0.0062	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.033	0.0182	0.025	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0087	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0433	0.0159	0.0175	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.132	0.0038	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0516	0.0112	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0906	0.0141	0.015	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.008	0.012	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.05	0.25	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 15:46	3/6/2025 11:51	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		174000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		23600	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:06	3/6/2025 13:06	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		161	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:01	3/5/2025 16:06	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4080	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		56000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		339000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:52	3/5/2025 14:26	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:08	3/10/2025 13:50	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		8	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 11:26	3/6/2025 12:35	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		51.9	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		51.1	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.155	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		276	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		2.34	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		45.5	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		11700	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		7390	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:52	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		67200	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.054	0.0009	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0002	0.001	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0034	0.0012	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.0052	0.0036	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0017	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0554	0.0032	0.0035	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.0169	0.0008	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0088	0.0022	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0116	0.0028	0.003	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.002	0.002	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.009	0.05	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 15:46	3/6/2025 13:03	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		149000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		15400	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 14:07	3/6/2025 14:07	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		132	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:01	3/5/2025 16:10	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4300	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		49000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		268000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:52	3/5/2025 14:28	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:08	3/10/2025 13:52	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		9	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1108-01	Water	Water	03/13/2025 10:53:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1108-02	Water	Water	03/13/2025 11:01:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:34:26	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.192	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	305	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:06:28	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91200	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.411	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0135	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0375	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0445	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0449	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0806	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	23000	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 16:38:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:43:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	6080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60000	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	311000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	95	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:54:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:23:00	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	12	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:52:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.15	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	279	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	45.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	12600	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7660	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:11:51	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	76300	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.257	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0191	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0292	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.321	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0972	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0427	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0635	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	155000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	16700	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 17:56:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	148	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:47:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2620	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	52700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	265000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	189	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:55:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:24:27	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1368-01	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Effluent - Grab	25C1368-02	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 11:58:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.6	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	2.1	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	58.9	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.175	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	299	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	66.7	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14000	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8310	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:40:43	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	88200	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.415	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0194	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0376	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0447	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.121	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0393	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.097	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	194000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	22800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 14:47:00	03/25/2025 14:47:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:10:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	925	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	58300	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	24	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:51:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:09:10	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	16	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 12:16:21	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	20.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	53.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.13	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	282	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	47.3	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12900	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7710	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:45:02	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79800	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.242	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0309	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0325	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.301	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.107	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0377	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0859	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 15:49:00	03/25/2025 15:49:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	155	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:14:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	900	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	53900	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	287000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	31	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:53:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:10:31	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	9	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1894-01	Water	Water	03/25/2025 10:50:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1894-02	Water	Water	03/25/2025 10:52:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	04/01/2025 10:35:00	04/01/2025 13:55:34	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.2	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.9	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.182	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	312	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	81.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	16100	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	9170	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	96700	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.372	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.023	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0436	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0264	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.114	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0146	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0765	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:22:00	03/26/2025 22:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	177000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	23500	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 16:03:00	03/26/2025 16:03:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	170	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 10:59:00	03/28/2025 12:55:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	67100	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	334000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	71	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:11:00	03/26/2025 14:28:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:35:00	03/31/2025 12:38:54	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	5	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	04/01/2025 10:35:00	04/01/2025 14:19:32	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.4	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.132	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	308	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	52.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14500	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8210	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	85500	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.256	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0297	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0417	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.346	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.0918	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.031	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0739	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:22:00	03/26/2025 23:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19400	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 17:04:00	03/26/2025 17:04:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	158	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 10:59:00	03/28/2025 12:59:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	1200	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	60700	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	300000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	299	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:11:00	03/26/2025 14:30:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:35:00	03/31/2025 12:40:34	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0313-01	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D0313-02	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:41:38	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53.4	12.1	25		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	67.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8710	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.424	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0278	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0271	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0388	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.133	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0129	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.113	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 11:51:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 20:38:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:24:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1750	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	65	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:56:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:49:47	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:59:35	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	54.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.232	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	294	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8460	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:56:57	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	79500	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.309	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0428	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.254	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0402	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0955	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	162000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:52:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	21500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 21:39:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	138	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:29:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	310000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	101	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:57:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:51:53	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0731-03	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall- Grab	25D0731-04	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 09:05:00	04/14/2025 15:26:27	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.238	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	290	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.5	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8410	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:46:43	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.45	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0254	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0254	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0343	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	159000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20300	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 14:52:00	04/14/2025 14:52:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 10:22:00	04/11/2025 13:05:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	324000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 09:13:00	04/09/2025 10:29:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:50:00	04/14/2025 15:46:52	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 09:05:00	04/14/2025 15:44:25	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.198	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	280	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8270	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:51:18	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.339	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0332	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.125	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0979	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0319	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22900	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 15:54:00	04/14/2025 15:54:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 10:22:00	04/11/2025 13:09:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	900	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55800	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	321000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 09:13:00	04/09/2025 10:32:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:50:00	04/14/2025 15:48:26	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1314-01	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1314-02	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 11:02:00	04/17/2025 11:59:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8580	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:30:30	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.383	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.016	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0272	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0352	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0284	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0738	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:45:00	04/17/2025 07:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 23:49:00	04/17/2025 19:22:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:48:00	04/17/2025 13:04:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2380	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57600	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 14:32:00	04/16/2025 16:34:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 11:14:00	04/21/2025 12:09:45	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 11:02:00	04/17/2025 12:08:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.138	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	288	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	47.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:34:50	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.406	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0228	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.026	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0926	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0413	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0687	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:45:00	04/17/2025 08:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 00:50:00	04/17/2025 20:24:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:48:00	04/17/2025 13:08:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	153	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 14:32:00	04/16/2025 16:36:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 11:14:00	04/21/2025 12:11:21	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1952-01	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1952-02	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:12:47	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.145	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	304	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:40:20	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.449	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0264	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.037	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0784	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.131	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.1	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24100	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 21:31:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	169	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:10:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	146	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:54:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:22:52	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:30:43	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.132	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	49.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:44:39	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92100	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.372	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0382	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.128	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0341	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.104	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20400	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 22:33:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:15:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1550	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	330000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	107	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:55:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:24:03	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					EK																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:30:02	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.178	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8860	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:30:37	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.44	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0234	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0385	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0196	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0968	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:06:00	05/02/2025 14:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 14:36:00	05/05/2025 14:36:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:44:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	347000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	221	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:15:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:37:21	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:48:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	271	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	21.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8530	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:33:25	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.272	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0314	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.305	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0557	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0278	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0916	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:06:00	05/02/2025 15:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 15:38:00	05/05/2025 15:38:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:49:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	72	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:17:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:38:33	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Blank	25E0114-03	Water	Water	05/01/2025 00:00:00	05/06/2025 13:48:00	05/06/2025 14:54:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AB																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25E0394-01	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25E0394-02	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/12/2025 09:11:00	05/12/2025 12:45:22	BZE0497	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.5	1.2	1.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.8	0.61	1.25	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.188	0.057	0.125	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.4	0.403	0.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13600	48	100	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93200	343	500	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.459	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 12:55:44	BZE0269	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.031	0.063	mg/L	FALSE	NA	5					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0759	0.018	0.025	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0431	0.016	0.018	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.111	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.03	0.011	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26400	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 15:52:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:50:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1200	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 06:20:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 16:53:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	162	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:57:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1000	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTP10279	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:45:30	BZE0270	[CALC]	Hardness AP	SM 2340 B	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55300	199	424	mg/L	FALSE	NA	20					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/09/2025 17:06:00	05/09/2025 17:15:00	BZE0486	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTP10226	FALSE	FALSE	362000	1000	1000	mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 15:11:00	05/07/2025 15:30:00	BZE0317	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTP10267	FALSE	FALSE	89	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 17:13:00	05/07/2025 18:32:00	BZE0336	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 16:35:00	05/12/2025 12:13:42	BZE0288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTP10003	FALSE	FALSE	13	2	5	mg/L	FALSE	NA	1					DD		BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E1680-01	Water	Water	05/20/2025 09:49:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E1680-02	Water	Water	05/20/2025 09:50:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:15:13	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	277	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:37:45	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.6	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8280	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94400	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:17:02	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0515	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0434	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.028	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	187000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26700	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/27/2025 11:11:00	05/28/2025 15:59:00	BZE1226	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	201	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 10:56:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58100	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	335000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:10:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:42:09	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:33:11	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.16	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	270	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:42:56	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.46	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	18.8	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13300	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7880	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.6	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90300	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.31	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:19:46	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0535	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.182	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0304	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.121	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	173000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	06/02/2025 16:07:00	06/02/2025 16:07:00	BZF0074	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 11:00:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55500	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	64	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:13:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:44:08	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E2428-01	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E2428-02	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:09:51	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.8	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8600	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:33:52	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.48	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0359	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0298	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.215	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	183000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 18:19:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	179	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:23:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	91	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:19:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:18:54	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:27:48	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	31.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	2.4	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8480	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.3	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:37:12	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.323	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:51:50	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.124	0.25		mg/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0344	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.141	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0548	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:00:37	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.264	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	181000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 19:41:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	170	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:27:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	326000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	98	8	10		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:21:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:20:24	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F0273-01	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F0273-02	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/08/2025 10:58:00	06/08/2025 13:33:46	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.2	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	5.2	1.2	1.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.185	0.057	0.125	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.4	0.403	0.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	48	100	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8390	171	250	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.3	4.2	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96700	343	500	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.423	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0208	0.006	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0299	0.018	0.025	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.04	0.016	0.018	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.125	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0152	0.011	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.238	0.014	0.015	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24300	247	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/09/2025 15:09:00	06/09/2025 22:06:00	BZF0423	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	140	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:57:35	BZF0173	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57100	199	424	mg/L	FALSE	NA	20					TM																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/05/2025 10:33:00	06/05/2025 16:00:00	BZF0250	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/06/2025 15:36:00	06/06/2025 16:00:00	BZF0366	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	175	8	10	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 15:24:00	06/05/2025 11:36:00	BZF0213	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					KC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 17:30:00	06/09/2025 15:14:40	BZF0221	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5	mg/L	FALSE	NA	1					EK																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1263-01	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1263-02	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:19:00	06/16/2025 11:48:26	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.142	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	62.3	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8510	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 11:50:38	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.6	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.187	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0286	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0404	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.218	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.024	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.729	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/17/2025 13:27:00	06/18/2025 03:45:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	181	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/20/2025 12:41:00	06/21/2025 10:19:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	359000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	121	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 13:51:00	06/13/2025 16:57:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:50:00	06/18/2025 14:23:42	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:19:00	06/16/2025 12:06:24	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.9	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.125	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.69	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8490	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 11:53:42	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.377	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.15	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0434	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.201	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.312	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0429	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.705	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	177000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24700	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/17/2025 13:27:00	06/18/2025 04:46:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/20/2025 12:41:00	06/21/2025 10:24:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	264000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	117	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 13:51:00	06/13/2025 16:58:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:50:00	06/18/2025 14:26:31	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/24/2025 12:49:00	06/24/2025 14:13:08	BZF1193	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.3	9	20		ng/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.6	1.2	1.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	56.9	0.61	1.25		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	65.2	0.403	0.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14600	2.4	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8470	8.6	12.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:29:22	BZF0995	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	101000	343	500		mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.541	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.185	0.006	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	ND	0.018	0.025		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0377	0.016	0.018		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.162	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.763	0.014	0.015		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:20:00	BZF0892	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27500	247	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/21/2025 00:36:00	06/21/2025 00:36:00	BZF1067	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	0.5	1		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 12:41:00	06/21/2025 10:25:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 10:51:00	06/20/2025 15:51:27	BZF1046	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60700	11.7	33.1		mg/L	FALSE	NA	1					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 11:01:00	06/20/2025 11:40:00	BZF1048	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	356000	1000	1000		mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 14:23:00	06/18/2025 15:30:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	ND	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:31:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/18/2025 14:23:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:34:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1492-02	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/23/2025 14:05:17	BZF0929	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1492-03	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1492-04	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25F2188-01	Water	Water	06/24/2025 09:20:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	6	7		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25F2188-02	Water	Water	06/24/2025 13:36:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/01/2025 09:00:00	07/01/2025 11:21:23	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	295	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:22:22	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	112000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.58	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.25	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0348	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.137	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.817	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 02:01:00	06/26/2025 02:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 21:34:00	06/25/2025 21:34:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:56:00	07/03/2025 15:42:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2400	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:33:00	06/25/2025 18:11:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 15:19:00	06/30/2025 15:11:11	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/01/2025 09:00:00	07/01/2025 11:39:20	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	0.85	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8450	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:24:58	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	110000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.42	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.04	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.168	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0125	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.813	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 03:01:00	06/26/2025 03:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 22:35:00	06/25/2025 22:35:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:56:00	07/03/2025 15:46:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	8	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:33:00	06/26/2025 12:59:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 15:19:00	06/30/2025 15:13:06	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G0181-01	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G0181-02	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:19:52	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.202	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	316	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8960	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:50:26	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	95400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.609	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0259	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.038	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.908	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 15:17:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	176	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:47:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 17:59:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:06:50	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:37:50	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	13.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8500	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	9.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:53:15	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.483	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.224	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0383	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.209	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.2	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.933	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 16:18:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:52:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	259000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 18:01:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:09:03	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:40:34	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.18	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	289	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	61.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8050	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.1	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:16:07	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.361	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0988	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0582	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0392	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.139	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.078	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.506	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 02:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 16:52:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:22:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2300	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	40	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:04:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:57:20	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:58:32	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	51	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.135	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	281	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7950	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:20:41	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	97200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.26	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0891	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0496	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.26	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.192	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0756	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.512	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 17:54:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:29:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	54700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	6	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:06:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:59:04	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1035-03	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1035-04	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:30:22	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	211	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.342	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	319	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8230	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93900	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.464	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0594	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0467	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0353	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0464	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.37	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 04:04:00	07/17/2025 04:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	188000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 17:10:00	07/16/2025 17:10:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:16:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1600	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60500	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	349000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:22:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:07:23	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:48:20	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.288	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7830	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.367	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0523	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0583	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.159	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0645	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0536	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.316	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 05:04:00	07/17/2025 05:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 18:12:00	07/16/2025 18:12:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:21:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2100	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	36	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:24:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:09:40	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1349-03	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	6		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1349-04	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25G2495-01	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25G2495-02	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 12:45:40	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	327	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	70.9	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15600	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9650	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:02:00	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	103000	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.516	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0592	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.035	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.036	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.111	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.473	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	189000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 11:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28100	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 16:01:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	190	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:06:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2500	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64900	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	10	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:14:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:38:58	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 13:03:37	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	30.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.8	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.172	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	307	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.3	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8690	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	8.7	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:14:56	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94900	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.346	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.061	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.161	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0852	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.431	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 17:03:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:10:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58600	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	305000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	19	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:16:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:40:12	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H0713-01	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H0713-02	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	310	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	74.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8900	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:28:50	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.588	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.153	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0367	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0316	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0239	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.698	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:06:35	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/14/2025 23:39:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:20:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1500	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:48:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:51:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.4	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.04	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	9.33	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:31:26	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.145	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.044	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.221	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0351	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.647	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:11:51	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/15/2025 00:40:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	163	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:24:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:51:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:53:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H1074-01	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H1074-02	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:15:00	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.9	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	65.5	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.195	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	325	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9140	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:20:09	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	104000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.507	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0676	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0339	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.142	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0354	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.459	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:01:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 13:43:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	363000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:12:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:08:58	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:32:58	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	318	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	16.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:24:43	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.326	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0619	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0444	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.166	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.027	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.436	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	179000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:21:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 14:07:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	62700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	355000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	14	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:14:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:12:09	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

APPENDIX C

Biota Monitoring Report

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Microbial analyses at the Waterleaf Resources pilot plant, Great Salt Lake, Utah

This reports presents data from an analysis of the microbial communities in the brine flowing into the plant, "influent," and the post-extraction brine that is in a holding tank before being released back into the lake, "effluent." The research question at hand is: ***what is the impact of introducing post-extraction effluent into the Great Salt Lake north arm.*** This analysis includes microscopy, genomic surveys, and inoculation experiments to measure growth in the laboratory.

Sampling:

Influent and effluent samples were obtained at the Utah Waterleaf Lilac facility on February 28, April 24, and June 24, 2025 (Figure 1). At each timepoint, 100 ml each were collected for laboratory analysis.



Figure 1. Samples were taken from the north tank for influent brine (valve circled in yellow) and the south tank for effluent (valve circled in red).

In addition,100 ml of brine from each sample were filtered through a sterile PVDF membrane pressure filter unit, pore size 0.22 µm, which captures all the cells present in the microbial communities of the brine. The filters were used to extract DNA and create the sequencing libraries (Figure 2).



Figure 2. North arm brine from the influent tank and post-extraction effluent brine were filtered separately through a PVDF membrane cartridge to collect all cells in the sample. These filters were subsequently used to isolate DNA with a DNA extraction kit (QIAGEN, Venlo, Netherlands).

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Biomass:

The relative biomass of aquatic communities can be assessed by centrifuging at high speeds to force cells to the bottom of the tube. I centrifuged 1 ml of the influent (I) sample and 1 ml of the effluent (E) sample at each sampling. These tubes were allowed to dry for two days. The dry weight was measured. I was unable to do this properly at the February sampling since I did not see a cell pellet in the effluent, only rust flakes, which likely came from corrosion of the holding tank and affected the dry weight. The other samples, however, yielded reliable data, and there were no rust flakes present. The April influent pellet was 3.7 mg of dry mass per milliliter of brine, and the effluent pellet was 4.5 mg per milliliter. The June influent pellet was 5.2 mg of dry mass per milliliter of brine, and the effluent pellet was 4.2 mg per milliliter. All were pink in color, which indicated that halophilic bacteria, archaea, and/or algae (all of which contain carotenoid pigments) were present in abundance in both (Figure 3). ***This colorful cell pellet was a good sign that there was a healthy population in the effluent.***

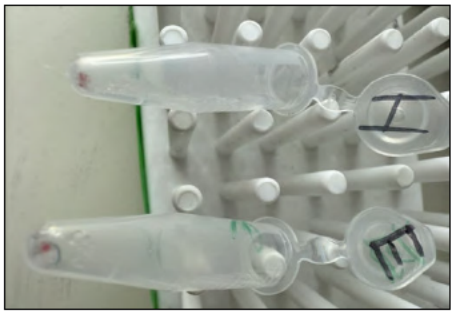


Figure 3. From the April samples, 1 ml of the influent (I) and effluent (E) were separately centrifuged to pellet the cells in the sample, which were both pink in color, indicating an abundance of halophiles (salt-tolerant bacteria and archaea have carotenoid pigments that make the cells pink).

Cell Counts:

Another way to assess biomass is to count the individual cells. Using a hemacytometer, which provides a grid and special cover glass to control the distributed volume, I estimated the cell density in each of the samples (e.g. Figure 4).

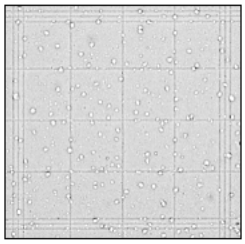


Figure 4. February influent sample on a hemacytometer. Note the grid that allows one to quantify the cells/ml. The cells are translucent but reflect light. They appear as small reflective orbs.

The results are shown in Table 1. The first samples from February demonstrated a robust cell density in the influent sample, but the effluent had very few if any visible cells. It's possible that the cell density was not zero, just low and not detectable by these methods. The April sampling had comparable numbers of cells in the effluent as the influent, the cells per milliliter counts were in the billions. The June samples also showed similar numbers for influent and effluent but higher cell counts.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Table 1. Cell counts by hemacytometer for each sampling

Sampling Date	Influent	Effluent
February 28, 2025	2 x 10^8 cells per ml	None detected, rust flakes present.
April 24, 2025	3.6 x 10^9 cells per ml	4.6 x 10^9 cells per ml
June 24, 2025	8.1 x 10^9 cells per ml	5.3 x 10^9 cells per ml

Note the values for April and June are higher at these warmer sampling times likely because the increased temperature supported microbial growth in the brine. The optimal temperature of GSL microorganisms is typically around the same as human cells, 37°C. ***Most importantly, the lithium extraction procedure did not reduce the cell count or have adverse effects on the cells.***

Given the intrusion of rust flakes and the results of the biomass and microscopy assays for the February sampling, I focused on the April and June samplings for addressing the question regarding impact on the extraction process on the microbial community.

Microbial Diversity:

In the GSL north arm, prior studies have revealed evidence for microorganisms in all three domains of life (Figure 5). The eukaryotes have nuclei and a higher-level organization; we typically see low levels of algae and fungi in the hypersaline brine. The prokaryotes have a simpler cell structure, such as salt thriving bacteria. The most prevalent domain in the north arm is archaea, which are abundant in all extreme environments on Earth (Baxter and Zalar, 2019; Ameida-Dalmet and Baxter, 2020).

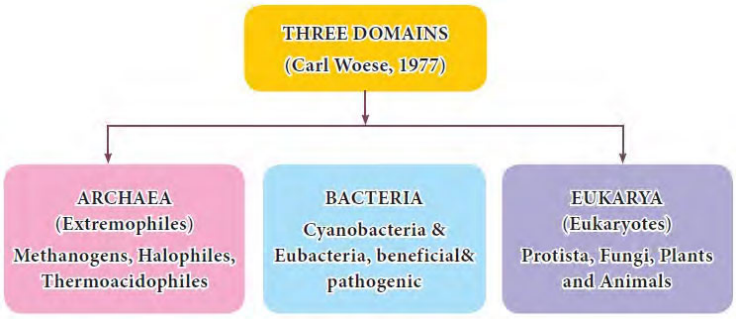


Figure 5. The three domains of life are all represented in the microbial diversity of Great Salt Lake.

To examine the microbial diversity of the influent and effluent, I wanted to sequence all the DNA from the onsite filtration described above. The microbial cells in the brine adhere to the sampling filters while the liquid is pumped through. After filtration, I froze the filters in a dry ice bath so that no degradation would occur, and the samples could be transported back to the lab for extraction. Under sterile conditions, the filter casings were cracked, and DNA was extracted from each membrane. This pool of DNA is derived from all of the life forms in the water sample. The next step is to figure out the species of life that are present. For this I used a consulting lab for

DNA sequencing. They amplify genes (16S rRNA, 18S rRNA, or ITS) associated with either bacteria, archaea, algae, or fungi. The DNA in the regions targeted is very specific, and this allows us to see "who" is present in the community and in what relative abundance. I analyzed the genetic data by first running a programming script that we developed in my lab to prune out any contaminants present in the controls and to connect to a taxonomic database to assign their phylogenetic classification. From here we can produce charts that help in visualizing the data.

Although the February effluent I analyzed did not seem to have cells (by microscopy nor a cell pellet), there were DNA signatures of microorganisms. This could be because the cells were in small numbers and therefore escaped the less sensitive methods, or it could be because there are biosignatures; the DNA from dead cells adhered to the filter but no intact cells did. A quick review of the prokaryotes in these samples indicate a similar community profile in the effluent when compared with the influent community e.g. the most prominent members of the community were common to both data sets.

The cell counts suggested that the April sampling would provide an excellent data set for sequencing analysis. I have confidence in the comparison between influent and effluent communities, and therefore, I have analyzed the April sample species composition below. The prokaryotes were split into bacteria and archaea for visual simplicity. The eukaryotic primers that would reveal algae species gave no hits (apart from plants that were blown in from the surrounding steppe), so there is no chart representing algae for April. We do know of two species that are present in the north arm, but in low numbers and only in warmer temperatures. Fungi require specific primers for reliable sequencing, so they were probed separately. Below I present the taxonomic profiles for each category of microorganisms. I have aligned the data for ease of comparison of the influent versus the effluent (Figure 6).

Archaea. Many of Earth's extremophiles fall in the category of Archaea, simple prokaryotes that look like bacteria but are genetically distinct. These make up the bulk of the Great Salt Lake north arm microbiota as shown in past studies (Baxter and Zalar, 2019; Almeida-Dalmet and Baxter, 2020). In this experiment, ***The difference between the Waterleaf influent and effluent genera present is negligible*** (Fig. 6, top panel).

Bacteria. In past work, because archaea are more typical in extreme environments, we were surprised to find robust bacterial communities at the north arm (Almeida-Dalmet and Baxter, 2020). ***In the Waterleaf samples, the bacterial genera present were also similar between the influent and effluent*** (Fig. 6, middle panel). Note the bacteria (and archaea) that are present in small abundance, towards the bottom of the graphics, are likely small in number because they prefer more moderate salinity and are introduced by the south arm water. The north arm salinity may suppress their growth.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Fungi. Recently my lab has explored the fungal species of the Great Salt Lake north arm (Parrott and Baxter, 2024). The Internal Transcribed Spacer (ITS) segment is widely used as a universal fungal barcode because of its variability between species. In the Waterleaf experiment, this marker revealed only a few species and different yeast taxa present in the influent and effluent (Fig. 6, bottom panel). Some of these species, in our prior study, have been associated with plants, soils or animals from the surrounding landscape. For example, *Alternaria* and *Cryptococcus* were discovered in the plant soil microbiomes Because the spores of fungi can become airborne, wind can introduce spores to the brine. ***The differences in the fungi present in the Waterleaf influent and effluent are likely not important with regards to the ecosystem since these species do not play a role in nutrient cycling.***

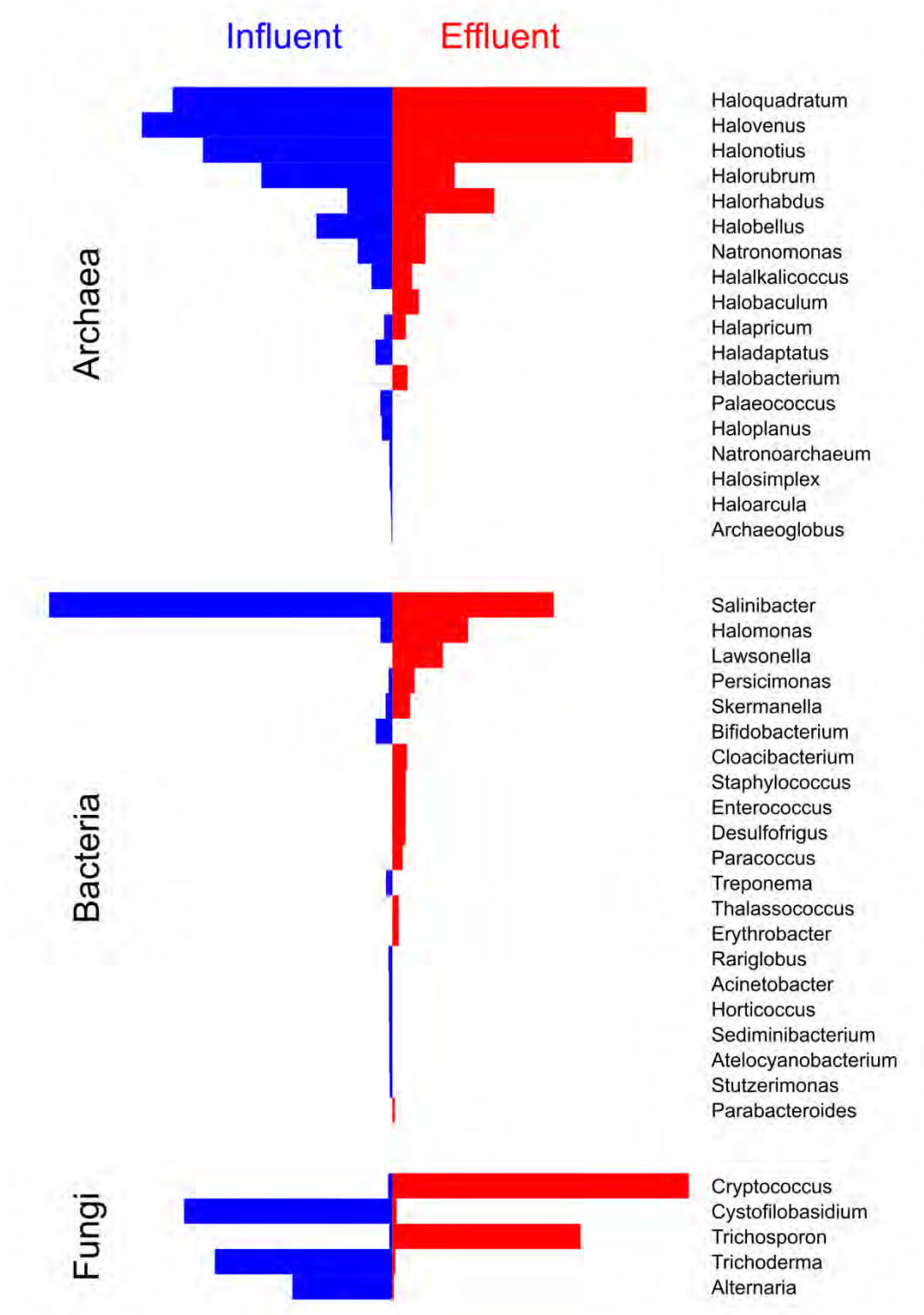


Figure 6. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Inoculation Experiment:

In order to probe more deeply into the potential impacts of discharging the effluent into the Great Salt Lake north arm, I performed a time course growth experiment, growing either influent, effluent, or a mixture. Optical density measurement at a light absorbance of 600nm (A_{600}) is a common methodology in microbiology for following growth of a culture over time (e.g. Stevenson et al. 2016). The cells absorb light at this wavelength, and so the concentration of microbes is proportional to the light absorbed. I used a spectrophotometer to measure the optical density over time, which allows us to see the growth curve of the population as the cells grow and divide. Since the initial levels of microorganisms are very low (and non-existent in the sterile water blank control), this is called the "lag phase." As the population starts to double rapidly, you can see logarithmic growth for some species "log phase." Beyond these phases, the bacterial population will stabilize and then decline. Figure 7 shows a standard growth curve for lab model microbes; we would expect slower growth in environmental organisms.

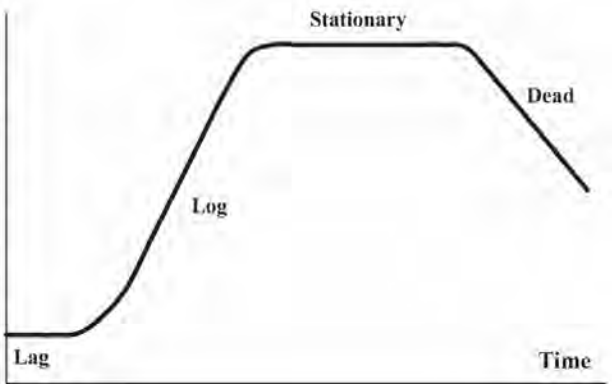


Figure 7. A textbook growth curve to show the expected phases of bacterial proliferation. My goal was to plot log phase in the samples and examine if introducing effluent to influent communities had an impact.

I attempted a couple of early trials to work out conditions, and this revealed that the experiment moved too slowly without growth media to enhance growth rates. The protocol that gave the best results for our timeframe was inoculating 9 ml of 23% salt MGM media (Dyall-Smith, 2025) with 1 ml of sample. The samples were 1) sterile deionized water serving as a control, 2) influent, 3) effluent, 4) a 50:50 mixture of effluent and influent. I did this experiment with brine from all three sampling dates. In each experiment, I used the control as a blank to set the optical density to zero. Thus, any absorbance observed was due to cells proliferating.

In Figure 8, the top panel shows growth curves featuring the February samples inoculated. The influent sample, which was rich in microorganisms, displays a typical growth curve, with a short lag phase, followed by fast growth, and then the beginnings of a plateau (orange line, top panel). The effluent (green line, top panel) by contrast, has delayed growth, but it does appear to have a low-density community that begins to take off albeit slowly. The mixture has a middle of the road growth curve (light blue line, top panel), which means that nothing in the effluent is inhibiting the growth of the microbes in the influent.

The middle panel of Figure 8 represents the growth curves of the April samples and the bottom panel is June. ***All of the samples from the April and June samplings follow a standard growth curve***. The microbial communities appear to have just reached stationary phase over this period of study. This is expected of healthy cultures. Also to note, ***mixing effluent and influent had no visible impact on growth***.

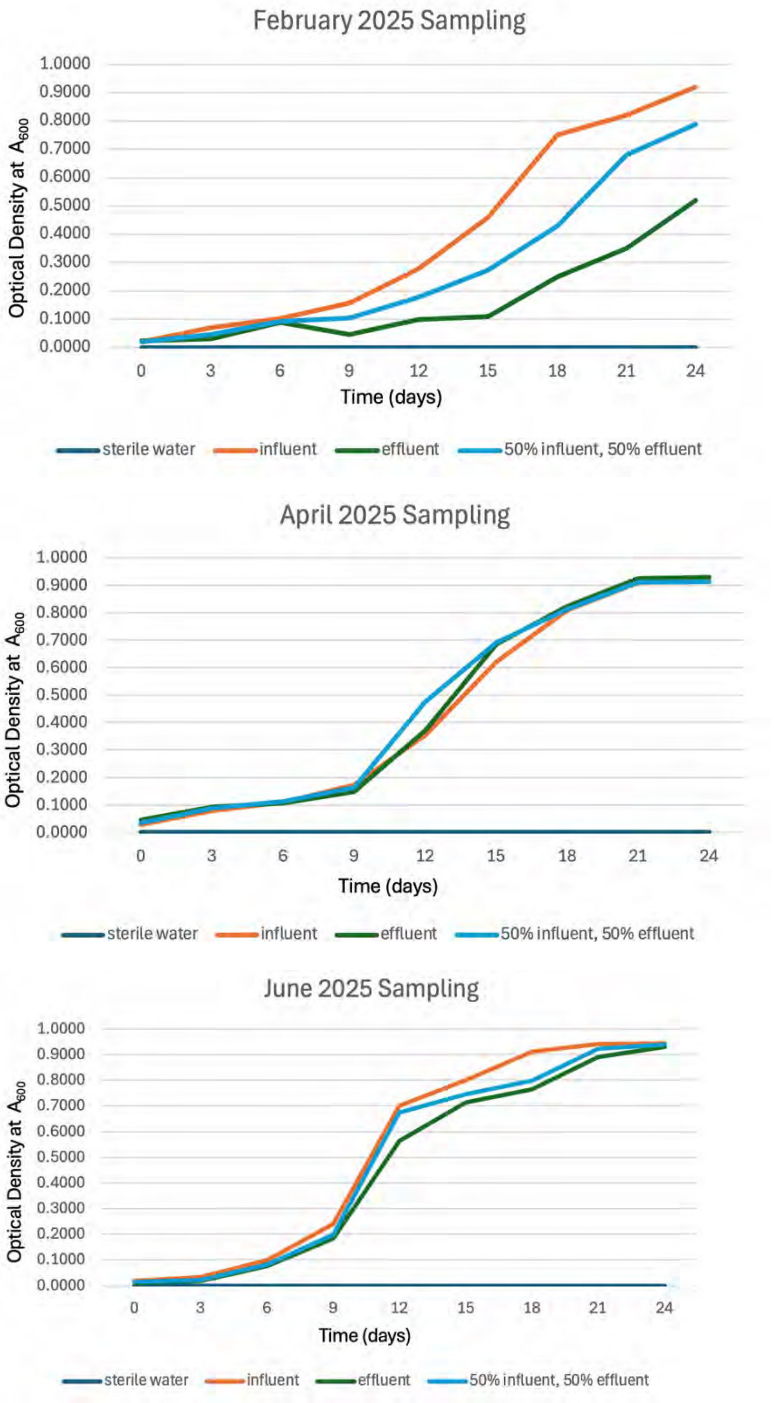


Figure 8. The top panel represents the February sampling at Waterleaf while the middle represents April and the bottom represents June. The sterile water inoculation control, dark blue, served as a blank for the optical density measurements at A600 and showed no contamination in the experiment. The influent samples are shown in orange, the effluent in green, and the 50:50 mixture in light blue.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Algae Experiments

In the February and April samples, there was no evidence for the presence of algae. I did not see the larger distinctive cells in the microscopy examinations nor the signature for them in the DNA sequencing for microbial diversity. This is not unusual as the main algae species of the north arm, *Dunaliella salina*, blooms in the warm summer months (Baxter and Zalar, 2019). These eukaryotes do photosynthesis for the lake, accumulate glycerol to balance the inside of the cell with the outside hypersaline water, and make pigments to mediate cellular damage from the extreme environment (Figure 9). Despite being a seasonal participant, they are a key player to supplying nutrients to the north arm microbial community.

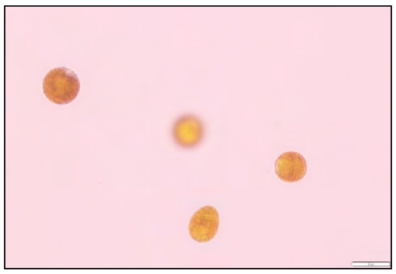


Figure 9. GSL north arm *Dunaliella salina*, a prevalent algae species in the summer months at Rozel. Beta carotene gives them the notable orangish color. A 20 micron scale bar is indicated in the lower right corner. Prokaryotes (bacteria and archaea) are typically only 1-2 microns, for comparison.

In the June sampling, I wanted to examine the impact of effluent on *Dunaliella salina* in the brine. For the DNA sequencing, I probed the broad categories of prokaryotes and eukaryotes. For this experiment, there is no need to distinguish between archaea and bacteria amongst the prokaryote signals and it was not important to track fungi separately amongst the eukaryotes. ***In future experiments for monitoring at this site, this streamlined approach would offer an option for routine checks.*** The results are shown in Figure 10.

The DNA sequencing surveys of the prokaryotes in the influent versus effluent shows the same pattern as before (Figure 6), making this a good control for standardization. The species distribution of the influent are preserved in similar abundances in the post-extraction effluent (Figure 10, top panel). These prokaryotes represent small archaea and bacteria, only ~1-2 microns, which are not filtered in the lithium extraction process. The *Dunaliella salina* algae are high in abundance in the influent as predicted for the summer season, but they are lacking in the effluent (Figure 10 bottom panel). ***These algae are much larger, ~10-20 microns, than the prokaryotes and were likely filtered in the early filtration step of the mineral extraction process.*** Note the small signal of *Dunaliella* in the effluent; this is likely from DNA released from dead cells in the environment, and these molecules would pass through filtration.

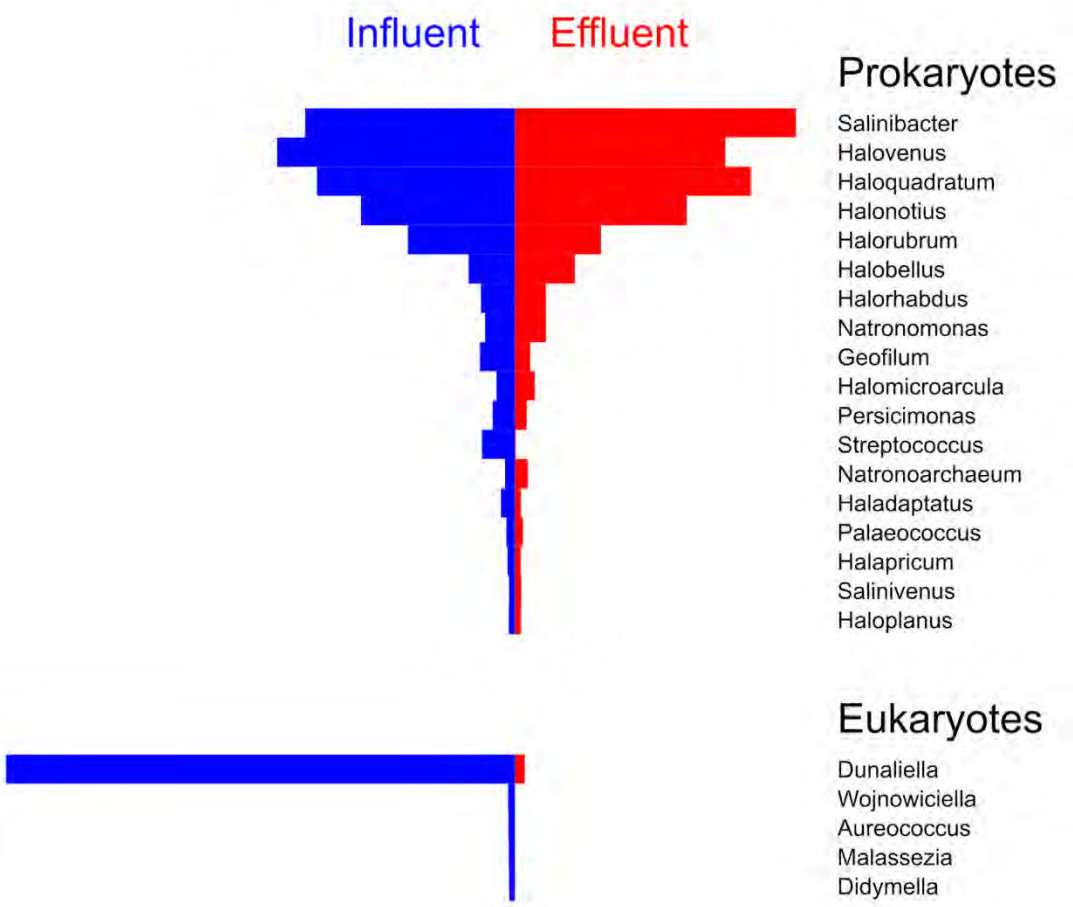


Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Conclusions:

Is the extraction process changing the microbial community?

- The biomass analysis (Figure 3), cell counting (Table 1), and DNA sequencing (Figure 6 and 10) demonstrate that the extraction process is allowing prokaryotic microorganisms to remain in and survive in the effluent.
- The inoculation experiment (Figure 8) demonstrated that the effluent brine population is as healthy as the influent. There is no evidence of a longer lag time in the growth curves and they approach log phase at the same rate.
- The archaea and bacteria genera composition and abundance measures are remarkably similar between the influent and effluent (Figures 6 and 10), suggesting the survival/recovery of the microorganisms following the lithium extraction process.
- The fungi, however, have a different composition post extraction (Figure 6). There are only a few species that emerged in our study, but they are different in the influent versus the effluent. Since fungi have amazing dispersal mechanisms, the origin of the fungi we observed may have been introduced from the surrounding landscape, given the species present. There is no need to track fungi for surveying the health of the lake ecosystem.
- Algae were absent in both February and April samples, likely due to time of year. In the June sampling, the *Dunaliella salina* summer bloom was detected in the influent. However, filtration in the lithium extraction process appears to remove the *Dunaliella salina* as it is not present in the effluent (Figure 10).

Would the introduction of effluent to lake brine have impacts on the native biota?

- The inoculation experiment, where the influent and effluent are mixed 50:50, is a proxy for modeling the recovery of the microbial community after discharge. There is no evidence of negative impacts in the 50:50 mixed sample (Figure 8).
- Although the filtration step in the lithium extraction process may remove the *Dunaliella salina*, the absence of algae in the effluent should not be a problem when the effluent is discharged to the lake. The microbial community is not impacted by the introduction of effluent in the inoculation experiments (Figure 8).

Recommendations for future monitoring of the microbial communities:

- Fungal signatures are introduced from the environment and are not valuable for this study. Monitoring of fungi going forward is not necessary.
- Most of the microbial community in the north arm are mesophiles, meaning they are more prolific at moderately warm temperatures, optimal 20 to 45 °C (68 to 113 °F). Summer sampling is recommended for future monitoring efforts, and this approach would also allow you to see the bloom of *Dunaliella salina*.
- Continual monitoring the prokaryotes (the most prolific life forms) would give a nice benchmark for microbial commnunies surviving in the effluent. Any changes in process, scale up, or seasonal impacts could be followed over time.

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APPENDIX B

Waterleaf Phase 1 Groundwater Well Quality Memo

Memo

Date:	Tuesday, August 19, 2025
Project:	Waterleaf GSL Lithium Extraction Commercial Plant
To:	File
From:	Nate Nichols, Karen Nichols, HDR
Subject:	Water Quality analysis of ground water source, existing well @ 41.466255, -112.646907 Waterleaf Resources GSL Phase 1 Lithium Extraction Project

This Memo provides details to support Waterleaf Resources Great Salt Lake (GSL) Lithium Extraction Commercial plant CWA 402 Utah Pollution Discharge Elimination Systems (UPDES permit #0026280 modification application and Anti Degradation Review (ADR). This memo provides water quality data from the proposed groundwater source that is planned to provide process make up water during the operation of the Commercial Plant.

Groundwater Source

Waterleaf Resources provides the following groundwater quality data from the existing agricultural groundwater well located at 41.466255, -112.646907. Water samples were collected from this well by HDR staff on 6/24/2025. Staff performed field calibration for pH, Conductivity and Turbidity. Temp and DO meters were calibrated and verified before entering the field. The Horiba U-52-2 field water quality meter was utilized to monitor flow of the well until the temperature and pH stabilized during a flow- through technique, after which the sample was collected.

Density readings were collected using an Anton-Parr density meter, which was calibrated and field verified using laboratory grade de-ionized water as a reference.

HDR Staff collected grab samples once the team was confident that the well casing had been flushed and the flow was representative of groundwater conditions. Samples were delivered to Chemtech -ford in Sandy Utah within all required hold times.

Water Quality Results

Table 1 below shows both laboratory results, methodology and Minimum Detection Limit for constituents, as well as field collected measurements.

DRAFT

Table 1. Groundwater Quality Results

Constituent	Method	Concentration	Minimum Detection Limit (mg/L unless otherwise noted)
Mercury, Total	EPA 1631	<0.4 ng/L	0.4(ng/L)
Aluminum, Total	EPA 200.7	<0.05	0.05
Boron, Total	EPA 200.7	0.39	0.02
Barium, Total	EPA 200.7	0.078	0.002
Iron, Total	EPA 200.7	<0.02	0.02
Lithium, Total	EPA 200.7	0.378	0.016
Potassium, Total	EPA 200.7	48.1	0.3
Silica, (as SiO2) Total	EPA 200.7	34.9	0.2
Sodium, Total	EPA 200.7	688	6.9
Arsenic, Total	EPA 200.8	0.0043	0.0002
Cadmium, Total	EPA 200.8	<0.00005	0.00005
Chromium, Total	EPA 200.8	0.0048	0.0002
Copper, Total	EPA 200.8	0.0023	0.0007
Lead, Total	EPA 200.8	<0.0003	0.0003
Manganese, Total	EPA 200.8	0.0028	0.0006
Molybdenum, Total	EPA 200.8	0.0017	0.0002
Nickel, Total	EPA 200.8	0.0013	0.0004
Selenium, Total	EPA 200.8	0.00778	0.00057
Silver, Total	EPA 200.8	<0.0003	0.0003
Zinc, Total	EPA 200.8	0.05	0.002
Chemical Oxygen Demand	Hach 8000	<6	6
Total Dissolved Solids (TDS)	SM 2540 C	3830	20
Total Suspended Solids (TSS)	SM 2540 D	<3	3
Biochemical Oxygen Demand	SM 5210 B	<2	2
Field collected parameters			
pH	Horiba U-52-2	8.15	N/A
Temp	Horiba U-52-2	16.59 C	N/A
Dissolved Oxygen	Horiba U-52-2	21.06 mg/L	N/A
Conductivity	Horiba U-52-2	4.23 ms/cm	N/A
Turbidity	Horiba U-52-2	0.000 NTU	N/A
Density	Anton-Parr density meter	0.9906 g/cm^2	N/A

APPENDIX C

Microbialite Survey

Memo

Date:	Tuesday, August 26, 2025
Project:	Waterleaf Resources Project Gecko
To:	Steve Morrey, Ryan Clerico, Project File
From:	Nate Nichols, HDR
Subject:	Microbialite survey results August 22, 2025

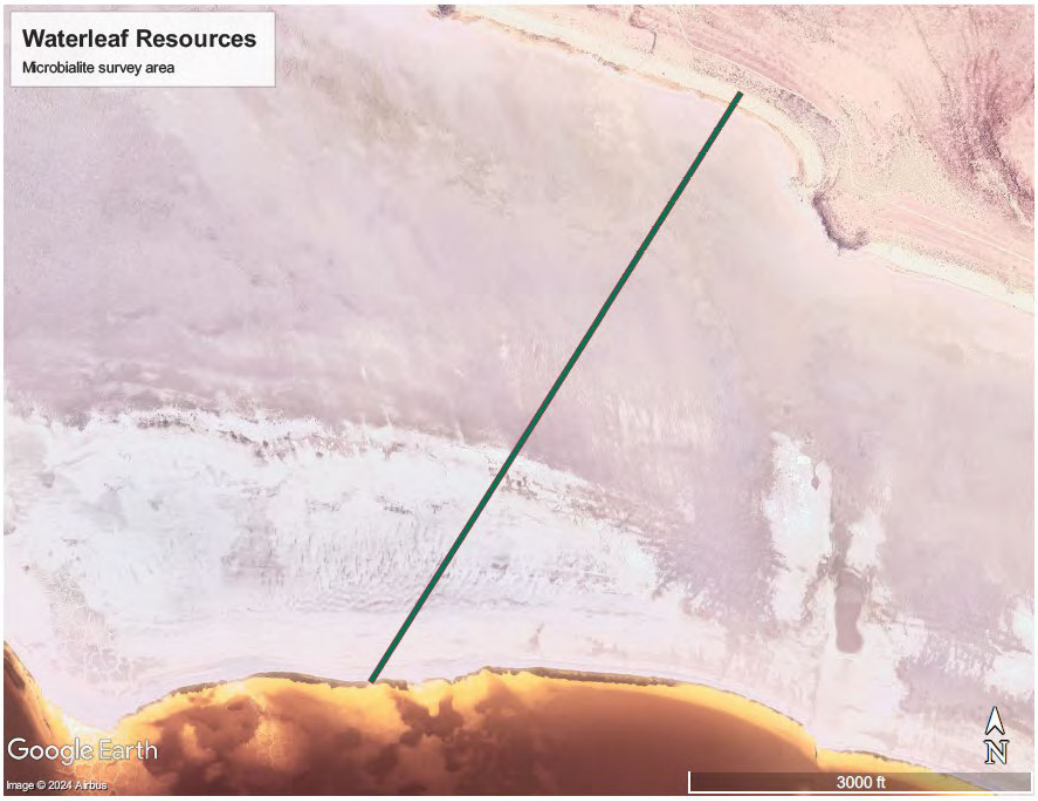
In accordance with Waterleaf Resources' Draft Operator Certification document, HDR conducted a pedestrian survey of Forestry, Fire and State Land easement associated with the Great Salt Lake Phase 1 Lithium Extraction Project (Commercial Plant) intake infrastructure installation area. This data will serve as baseline conditions for installation infrastructure for future commercial operations in the same area.

Background

The intake and outfall infrastructure would be constructed from the Commercial Plant location on the western slope of the Promontory Mountains, to the open waters of the North Arm (Gunnison Bay) of the GSL as shown in the survey area figure below. The infrastructure area can be described as exposed lakebed and hypersaline waters. Recent Utah Geological Survey (UGS) mapping has identified the western, eastern, and southeastern shoreline areas in the North Arm that might contain microbialites (UGS 2021). Microbialite structures provide a food source for brine shrimp and brine flies (Baxter 2020). However, research has documented that, due to limited availability of nutrients, the North Arm microbialite structures have lower mass, productivity, and/or diversity compared to microbialites in the South Arm (Baxter 2020).

Prior to construction of the Commercial lithium Extraction plant, Waterleaf is required to conduct a survey of the construction area to identify the existence of these important habitat structures in the project area. If microbialites are inventoried in the project area, Waterleaf would take measures to avoid impacts to the structures.

Survey Area



Results

Previous to this pedestrian survey, the centerline of the proposed easement on FFSLs was staked from the ordinary high-water mark to the GSL water's edge where inlet and outfall structures would be located. From this centerline, a 50-foot buffer on either side was surveyed by foot for any microbialite structures to a depth of 3.5 feet into the GSL. At this point the lake sediments were no longer visible. Any lake sediments which appeared to contain microbialite structures that would be impacted by installation of intake and outfall pipes were noted.

No microbialite structures were noted during the pedestrian survey. Lakebed sediments above the current water level consisted of hard, compacted silty/sand material from GLS OHWM for approximately 0.7 miles (3500 ft). After which, the lake sediments consisted exclusively of loose, sandy material with some salt crusting observed a depth of 3.5 feet into GSL waters

It was noted that a low ground pressure UTV was used to travel the length of the survey area, which was also utilized during the recently completed demonstration plant operation, and did not impact any existing microbialites or habitat.

Representative Photos



Centerline staking, looking West.



Representative of hard packed silty sand material, looking West.



Transition to salt crusted material, looking West, Southwest



Transition into open water, Looking West



Salt Crust and fine sand 0-1 foot of water



1 to 3.5+ feet representative photo looking West

APPENDIX D

Final Monitoring Report

Final Monitoring Report

Waterleaf Resources Great Salt Lake Lithium Extraction Demonstration Plant

Prepared for
Waterleaf Resources

Prepared by
HDR, Inc.
2825 E. Cottonwood Parkway, Suite 200
Salt Lake City, UT 84121

October 25, 2025

Contents

1 Introduction 1
1.1 Purpose 1
1.2 Background 2
2 Summary of Monitoring Means and Methods 3
2.1 Water Quality Monitoring 3
2.1.1 Field and Laboratory Parameters and Methods 3
2.1.2 Quality Assurance 5
2.2 Flow Monitoring 6
2.3 Biota Monitoring 6
3 Water Quality Results 8
3.1 Visual Observation Results 9
3.2 Chemistry Monitoring Results 9
3.3 Chemistry Monitoring Results Discussion and Graphs 14
3.3.1 Minimum Detection Limits and Uncertainty 15
3.3.2 Outlier Analyses 16
3.3.3 Metals Discussion 18
3.3.4 Salts Discussion 25
3.3.5 Manganese 28
3.3.6 Lithium 30
3.4 Field Chemistry Results 31
3.4.1 Density 31
3.4.2 Dissolved Oxygen 32
3.4.3 pH 33
3.4.4 Temperature 34
3.4.5 Influent and Discharge Water Salinity 34
4 Flow Monitoring Results 37
4.1 Monthly Volume Results 37
4.2 Total Water Balance 38
5 Biota Monitoring Results 39
5.1 Presence of Biota 39
5.2 Biota Diversity 40
5.3 Biota Growth in Discharge 43
6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation 45
6.1 Impacts on North Arm Salinity or Water Quality Chemistry 45
6.2 Impacts on North Arm Volume, Flows, or Water Levels 46
6.3 Impacts on North Arm Habitat 46
6.4 Impacts on North Arm Biota 47
7 References 48

Tables

Table 1. Water Quality Monitoring Laboratory Methods 4
Table 2. Dates of Water Quality Compliance Monitoring Events 8
Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28) 11
Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18) 13
Table 5. Summary of Outlier Analyses 17
Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations 23
Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm 24
Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm 28
Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm 29
Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm 31
Table 11. Summary of Field Measurements 31
Table 12. Influent and Discharge Density Results 36
Table 13. Demonstration Plant Influent and Discharge Flow Volume 37
Table 14. Biota Cell Counts and Dry Weight 39

Figures

Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations 19
Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations 22
Figure 3. Graphs of Salt Constituents 26
Figure 4. Graph of Manganese Influent and Discharge Data 29
Figure 5. Graph of Lithium Influent and Discharge Data 30
Figure 6. Density Graph 32
Figure 7. Dissolved Oxygen Graph 32
Figure 8. pH Graph 33
Figure 9. Temperature Graph 34
Figure 10. North Arm Volume 35
Figure 11. April 2025 Biota Abundance Graphs 41
Figure 12. June 2025 Biota Abundance Graphs 42
Figure 13. April and June 2025 Biota Growth Results 44

Appendices

A. UPDES Permit
B. Laboratory Data Results
C. Biota Monitoring Report

Abbreviations

°C	degrees Celsius
af	acre-feet
Demonstration Plant	Great Salt Lake Lithium Extraction Demonstration Plant
DLE	direct lithium extraction
DMR	discharge monitoring report
DNA	deoxyribonucleic acid
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
g/cm^3	grams per cubic centimeter
g/L	grams per liter
g/mL	grams per milliliter
g/mol	grams per mole
GSL	Great Salt Lake
IQR	interquartile range
ITS	internal transcribed spacer
IX	ion exchange
lb	pounds
maf	million acre-feet
MDL	minimum detection limit
mg/L	milligrams per liter
mL	milliliter
NA	not applicable
NetDMR	Network Discharge Monitoring Report
NVGD 1929	National Geodetic Vertical Datum of 1929
No.	number
rRNA	ribosomal ribonucleic acid
Si	silicon
SiO_2	silica (silicon dioxide)
UAC	Utah Administrative Code
UDFFSL	Utah Division of Forestry, Fire and State Lands
UDWQ	Utah Division of Water Quality
UGS	Utah Geological Survey
UPDES	Utah Pollutant Discharge Elimination System
USGS	U.S. Geological Survey
Waterleaf	Waterleaf Resources
WSE	water surface elevation

1 Introduction

Waterleaf Resources (Waterleaf) prepared this final monitoring report to present data and data analysis related to chemistry, flow, and biota data obtained during the operation of the Great Salt Lake (GSL) Lithium Extraction Demonstration Plant (Demonstration Plant).

The chemistry and flow data were collected, analyzed, and reported pursuant to Utah Pollutant Discharge Elimination System (UPDES) Permit No. UT0026280, which was issued to Waterleaf by the Utah Division of Water Quality (UDWQ) on February 4, 2025 (UDWQ 2025a). The Demonstration Plant's discharge of effluent to the GSL was authorized by the UPDES permit, which is provided in Appendix A, *UPDES Permit*. The UPDES permit also authorized the operation of the GSL lithium extraction facility, by certification by rule, under Utah Administrative Code (UAC) R317-16.

Summaries of the laboratory chemistry results and continuous flow monitoring data are provided in Appendix B, *Laboratory Test Results*.

The microbial diversity (biota) report (Baxter 2025; Appendix C, *Biota Monitoring Report*) is summarized in this final monitoring report. The biota report provides additional data that characterize the biota in the North Arm of the GSL and in the discharge flow of the Demonstration Plant. The UPDES permit did not require an assessment of the North Arm biota data.

1.1 Purpose

This report is being provided to support the applications for authorizations required to operate Waterleaf's GSL Phase 1 Lithium Extraction Commercial Plant. These applications are the UDWQ UPDES Permit UT0026280 modification, the UDWQ GSL Mineral Extraction Facility Operator Certification (Operator Certification) (UAC R317-16-5(4)), and Utah Division of Forestry, Fire and State Lands (UDFFSL) agreements.

The information in this report and appendices includes summaries of UPDES compliance monitoring data, continuous flow data, North Arm habitat identification, and additional data collected to characterize North Arm biota.

Demonstration Plant discharges are evaluated to determine that there would be no negative impacts to the GSL, as defined by UDWQ R317-16-16 and as supported by chemical monitoring results review and analysis, flow monitoring results, North Arm habitat inventory, and a North Arm biota monitoring study.

1.2 Background

The Waterleaf Resources Demonstration Plant operated from February 2025 through August 2025. The Demonstration Plant, a temporary facility, was operated to validate Waterleaf's proprietary ion-exchange (IX) direct lithium extraction (DLE) process. This proprietary technology is a nonconsumptive and nonevaporative process to extract lithium from GSL North Arm brine. GSL North Arm brine was conveyed to the plant, processed through the IX DLE equipment, and discharged back into the GSL with no brine depletion. Intake and outfall (influent and discharge) infrastructure was located in the open water of the North Arm of the GSL, and the Demonstration Plant's equipment and offices were located on the western slope of the Promontory Mountains in Box Elder County, Utah.

The North Arm (Gunnison Bay) of the GSL is classified as a Class 5B water of the state. It is protected by UDWQ for infrequent primary and secondary contact recreation, waterfowl, and shorebirds and other water-oriented wildlife including their necessary food chain (UAC R317-2-6.5). Numeric water quality standards for the North Arm are not established but narrative standards apply.

Influent brine and discharge water chemistry data, flow data, and biota data were collected during operation of the Demonstration Plant. Operation activities spanned 28 weeks during the winter, spring, and summer. The data collected reflect seasonal changes in GSL North Arm water surface levels, brine temperature, brine chemistry, salinity, and biota growth.

The influent and discharge chemistry weekly monitoring events summarized in this report were conducted and reported in accordance with the UPDES permit and UAC R317-16. The UPDES compliance monitoring data results, which were submitted electronically, can be accessed through the U.S. Environmental Protection Agency's (EPA) ECHO website for facility UT0026280.[1]

[1] U.S. Environmental Protection Agency, Enforcement and Compliance History Online (ECHO) website, National Pollutant Discharge Elimination System (NPDES) Monitoring Data Download page, https://echo.epa.gov/trends/loading-tool/get-data/monitoring-data-download.

2 Summary of Monitoring Means and Methods

This section summarizes the monitoring methods and means that were used to collect data during the Demonstration Plant's operation.

- **Water quality monitoring.** HDR conducted weekly composite water quality sampling and analysis on influent and discharge flows on behalf of Waterleaf.
- **Flow monitoring.** Waterleaf conducted continuous flow monitoring at the intake and outfall systems.
- **Biota monitoring.** Dr. Bonnie Baxter of Westminster University conducted biota monitoring on behalf of Waterleaf. Three biota monitoring events were conducted in 2025.

2.1 Water Quality Monitoring

HDR conducted the required water quality monitoring on behalf of Waterleaf. Required water quality monitoring occurred during the Demonstration Plant's operation in accordance with the UPDES permit (UDWQ 2025a). The data results were reported electronically via EPA's Network Discharge Monitoring Report (NetDMR) system. This section summarizes the means and methods that were used to collect water quality samples and perform the laboratory analyses.

2.1.1 Field and Laboratory Parameters and Methods

HDR collected weekly water quality samples, which were composited for laboratory analysis. Discrete samples were collected every 2 hours over a 6-hour duration. Instantaneous flow rates were measured and used to prepare the flow-weighted composites for chemical analysis by a state-certified analytical laboratory. Chemtech-Ford Laboratory in Salt Lake City, Utah, conducted all water chemistry laboratory analyses.

Silicon (Si) concentrations were calculated by using the UDWQ equation (UDWQ 2025b), using silica concentrations and a molar mass conversion equation:

$[Si] * (SiO_2 \text{ molar mass} / Si \text{ molar mass}) = [SiO_2]$

$[Si] = [SiO_2] / (SiO_2 \text{ molar mass} / Si \text{ molar mass})$

$[Si] = [SiO_2] / (60.08 \text{ g/mol} / 28.09 \text{ g/mol})$

$\mathbf{[Si] = [SiO_2] / 2.139}$

Where: Si = Silicon concentration, mg/L
SiO_2 = Silica concentration, mg/L

In addition to the laboratory chemical analyses, field measurements were taken and reported for pH, dissolved oxygen, and temperature using a Horiba U-53-2 handheld multimeter. Field measurements for density were made using an Anton-Paar density meter. Table 1 lists the constituents and methods that were used for the water quality analysis.

Table 1. Water Quality Monitoring Laboratory Methods

Analysis Method	Constituents
Metals (Total)	
EPA 200.7, Metals in Water by ICP-AES	Boron, calcium, lithium, potassium, silica[1], sodium
EPA 200.8, Metals in Water by ICP/MS	Aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, molybdenum, nickel, selenium, silver, zinc
EPA 1631, Mercury in Water by CVAFS	Mercury
Inorganic Nonmetals	
EPA 300.0, Determination of Inorganic Anions by Ion Chromatography	Bromide, chloride, nitrate, sulfate
EPA 335.4, Determination of Total Cyanide by Semi-automated Colorimetry	Cyanide
SM 2320 B, Alkalinity by Titration	Alkalinity, bicarbonate, carbonate, hardness, hydroxide
SM 4500 NO_2 B, Nitrite by Colorimetry	Nitrite
SM 5210 B, 5-Day BOD Test	Biochemical oxygen demand (BOD)
Hach 8000, EPA Reactor Digestion Method	Chemical oxygen demand (COD)
APHA Standard Method 2540 C, Total Dissolved Solids Dried at 180°C	Total dissolved solids (TDS)
APHA Standard Method 2540 D, Total Suspended Solids Dried at 103–105°C	Total suspended solids (TSS)
Other Methods	
Field Measurement – Instantaneous	Dissolved oxygen, pH, water temperature, density, flow
Visual Observations	Unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor
Grab Sample	Oil and grease
Continuous Monitoring	Influent and discharge flows

Definitions: °C = degrees Celsius; AES = atomic emission spectroscopy; APHA = American Public Health Association; BOD = biochemical oxygen demand; CVAFS = cold vapor atomic fluorescence spectroscopy; EPA = U.S. Environmental Protection Agency; ICP = inductively coupled plasma; MS = mass spectrometry; NO_2 = nitrogen dioxide; SM = Standard Method

1. Silica data have been used to calculate silicon values.

2.1.2 Quality Assurance

Water quality data were analyzed in accordance with the UPDES permit requirements; these requirements include constituents analyzed, frequency, and laboratory minimum detection limits (MDLs). Additional UDWQ Director's requirements were included in the UPDES permit, including providing laboratory Level IV data quality packages. Level IV data quality packages were submitted electronically with the discharge monitoring reports (DMRs).

As a result of this process, Waterleaf observed the following:

- **Precision**
  - Field duplicate samples were collected by UDWQ staff during February and March 2025 as required by UPDES permit UT0026280 and were analyzed to validate Waterleaf's sample results.
  - The precision of the water quality results is documented in the Level IV data quality packages, which include equipment calibration and validation.
- **Accuracy and Bias**
  - Field instrument calibration met manufacturers' requirements.
  - Laboratory quality assurance/quality control (QA/QC) met each laboratory's internal method requirements.
  - Trace-level mercury was not detected in field blank samples when analyzed during the May 1, 2025, monitoring event.
- **Representativeness**
  - All field measurements and samples were collected from locations and on a frequency as required by UPDES permit UT0026280.
  - Weekly compliance monitoring events were conducted when the Demonstration Plant discharged to the GSL (February through August 2025). During the Demonstration Plant's operation, discharges to the GSL were suspended for thee 1-week periods, so compliance monitoring was not conducted during those three 1-week periods.
- **Completeness**
  - Field and laboratory completeness requirements were met.
- **Comparability**
  - Field conditions were within the range of the selected in-situ meter and probe capabilities.
  - Laboratory method detection limits were sufficient to meet UPDES requirements and data quality objectives (Waterleaf 2025a).

Detailed Level IV laboratory quality control and quality assurance documentation was submitted electronically via EPA's NetDMR system. This documentation can be accessed through EPA's ECHO website, as discussed in Section 1.2, *Background*.

2.2 Flow Monitoring

Waterleaf conducted continuous and instantaneous flow monitoring on influent and discharge flows during the Demonstration Plant's operation.

Continuous flow monitoring was conducted using Krohne Optiflux 4300 and Rosemount Magnetic flow meters installed in the Demonstration Plant's intake and outfall infrastructure, respectively. Influent flow monitoring occurred before GSL brine entered the intake holding tank; discharge flow monitoring occurred after brine was discharged from the outfall holding tank. Inline flow meters were installed to continuously monitor the influent flows from the GSL and discharges to the GSL.

Instantaneous flow monitoring was conducted by HDR during water chemistry monitoring events. For each discrete water quality sample, an instantaneous flow measurement was recorded. These instantaneous flow measurements were used to prepare the flow-weighted composite sample for laboratory analysis. Instantaneous flows were recorded from the Waterleaf continuous flow meters.

2.3 Biota Monitoring

Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to study the microbial biomass and community (bacteria, archaea, algae, and fungi) in the influent to and discharge from the Demonstration Plant, which was located on the eastern shore of the North Arm of the GSL (Baxter 2025). The goals of the study were to characterize the biota community in the influent flow and evaluate whether the discharge from the Demonstration Plant affected the biota community of the North Arm.

The following data collection and analysis were conducted to evaluate the influent and discharge characteristics during the Demonstration Plant's operation:

- Identify the biota cells present to estimate cell density and measure biomass.
- Extract and sequence DNA associated with bacteria, archaea, algae, and fungi to determine their abundance and presence.
- Inoculate samples to determine cell growth rate for three conditions: influent, discharge, and a mix (50:50) of influent and discharge.

To identify the presence or absence of biota cells, Dr. Baxter collected water samples from the raw brine intake tank and the Demonstration Plant's discharge tank and pumped the samples through a sterile polyvinylidene fluoride (PVDF) membrane pressure filter unit with a pore size of 0.22 micrometer (µm) to analyze the accumulated biomass. The filter media were frozen on site with liquid nitrogen to preserve the samples and were transported to the lab frozen on dry ice. In the lab, the samples were run through a centrifuge and dried to create a pellet of the cells, and the dry weight of the cell pellet was measured. Using a hemacytometer (which provides a grid and special cover glass to control the distributed volume), the cell density in each of the samples was estimated. The presence of cells in the influent and discharge flows was then verified and further analyzed through biosignatures (DNA sequencing).

To identify microbial diversity, the filter samples were sent to an external laboratory to conduct the DNA sequencing, which establishes the species of life present. The lab

extracted the biota DNA from filters and then amplified the specific genes associated with bacteria, archaea, algae, and fungi. Evaluations were conducted on the DNA sequencing results to determine the presence and relative abundance of microbial taxa present in the influent and discharge water samples. The genetic data were examined and assembled by relative abundance, meaning that the abundance of species can be compared within a specific sample but not to other sample results.

Water samples were inoculated by Dr. Baxter, and biota and observations were logged over 24 days to document growth rates. Four water samples were inoculated: sterile, influent (raw brine), discharge brine, and a 50:50 mix of influent and discharge. The 50:50 mix represents North Arm brine mixed with discharge brine to determine whether the biota would grow that environment.

3 Water Quality Results

The results of each water quality compliance monitoring event were submitted electronically to EPA's NetDMR website in accordance with the UPDES permit requirements. Analytical laboratory data quality Level IV packages were submitted electronically. Laboratory results are provided in Appendix B, *Laboratory Data Results*. A summary of those results is provided below.

Influent and discharge samples were collected and analyzed weekly during the Demonstration Plant's operation. Table 2 lists the dates of the water quality compliance monitoring events annotated with a description of Demonstration Plant operation phases.

Table 2. Dates of Water Quality Compliance Monitoring Events

Week	Sampling Date	Influent Sampling	Discharge Sampling	Notes
1	2/6/25	✓	✓	Start-up operations
2	2/13/25	✓	✓	Start-up operations
3	2/20/25	—	—	No discharge
4	2/26/25	✓	✓	Start-up operations
5	3/425	✓	✓	Start-up operations
6	3/13/25	✓	✓	Equipment validation
7	3/18/25	✓	✓	Equipment validation
8	3/25/25	✓	✓	Equipment validation
9	4/2/25	✓	✓	Equipment validation
10	4/8/25	✓	✓	Equipment validation
11	4/15/25	✓	✓	Equipment validation
12	4/22/25	✓	✓	Equipment validation
13	5/1/25	✓	✓	Equipment validation
14	5/6/25	✓	✓	Equipment validation
15	5/12/25	—	—	No discharge
16	5/20/25	✓	✓	Performance run
17	5/29/25	✓	✓	Performance run
18	6/03/25	✓	✓	Performance run
19	6/12/25	✓	✓	Equipment validation
20	6/17/25	✓	✓	Equipment validation
21	6/24/25	✓	✓	Equipment validation
22	7/1/25	✓	✓	Equipment validation
23	7/10/25	✓	✓	Equipment validation
24	7/15/25	✓	✓	Equipment validation
25	7/22/25	—	—	No discharge
26	7/29/25	✓	✓	Equipment validation
27	8/7/25	✓	✓	Equipment validation
28	8/12/25	✓	✓	Equipment validation

3.1 Visual Observation Results

Observations of water quality covered by state narrative water quality standards were made and documented during compliance monitoring. These observations targeted unnatural deposits, floating debris, oil, scum, or other nuisances such as color or odor, that are specifically identified in the narrative standards. No floating debris, oil, scum, or odor were observed in the influent and discharge samples that were evaluated.

The color of the influent and discharge varied throughout the Demonstration Plant's operation; no color was observed early in the plant's operation (February and March), and color was increasingly observed in the influent for the remainder of the plant's operation (April through August). The color of the influent increasingly became pinker as the North Arm's brine temperatures rose and the presence of biota increased. This observation is normal and is supported by the biota monitoring that was conducted (see Appendix C, *Biota Monitoring Report*).

During the first several weeks of the Demonstration Plant's operation, steel rust flakes were observed in the discharge samples. The source of the rust flakes was determined to be corrosion from the intake and outfall steel holding tanks and other carbon steel equipment throughout the Demonstration Plant. Waterleaf observed that the steel holding tanks were corroding and that rust was flaking off the tank interiors as the brine levels fluctuated in the holding tanks and the exposed steel discolored and began to disintegrate.

After the observations were made, Waterleaf modified operation of the Demonstration Plant to minimize the change in water level in the tanks, thereby reducing the exposure of the steel tanks' interiors. The rust flakes were observed and recorded during the February biota monitoring event along with the presence of biota. The biota monitoring report concluded that the corrosion of the holding tanks was not adversely affecting the microorganisms in the discharge (Appendix C, *Biota Monitoring Report*). Rust flakes were not observed after week 5 of the Demonstration Plant's operation.

3.2 Chemistry Monitoring Results

The influent and discharge flows were sampled and analyzed in compliance with the UPDES permit and the Operator Certification. In all, 25 monitoring events were conducted at the Demonstration Plant during its 28-week operation (there was no discharge during 3 of the 28 weeks). A summary of all laboratory analytical results and laboratory MDLs is provided in Table 3 for each constituent in alphabetical order. Field measurements (density, dissolved oxygen, pH, and temperature) are discussed in Section 3.4, *Field Chemistry Results* including a discussion on salinity characteristics of the influent and discharge.

Additionally, as required by UDFFSL rules, a performance run period occurred during weeks 16 through 18 of operation (May 20 through June 10, 2025). During the performance run of the Demonstration Plant, equipment operations were optimized and maintained to measure certain performance metrics (Waterleaf 2025b). Table 4 summarizes average influent and discharge concentrations for this period.

In this section, Waterleaf examines the influent and discharge chemical data in context with laboratory MDLs and uncertainty or error. Also, the chemical data were evaluated for outliers based on interquartile range (IQR) outlier analysis.

During the 28-week operation of the Demonstration Plant, the plant operated in three phases: start-up operations, equipment validation, and performance run (see Table 2 for the duration of each phase). During start-up operations, spikes in some metal constituents and rust flakes were observed, as discussed above in Section 3.1. Data results during start-up are discussed in Section 3.3.3 and summarized in Table 6 for the specific metal constituents that had data spikes during start-up.

To assess whether Demonstration Plant mass loads changed North Arm background mass, loads for metals, salt, and manganese are compared in Table 7, Table 8, and Table 9.

Lithium concentrations and mass loading are provided in Table 10.

In addition to the chemical laboratory analyzes reported in this section, UPDES required the reporting of silicon. Waterleaf used the UDWQ molar mass equation, using silica laboratory results, including the MDL value for nondetect values. Using the UDWQ molar mass equation and the silica data results, the silicon data are:

- Influent characteristics:
    - Average concentration: 2.5 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 3.6 mg/L
- Discharge characteristics:
    - Average concentration: 2.7 mg/L
    - Minimum concentration: 2.0 mg/L
    - Maximum concentration: 4.3 mg/L

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Alkalinity	569 (526/599)	360 (119/504)	0.2	NA
Aluminum, total	1.7 (ND/5.2)	1.6 (ND/5.1)	1.2	NA
Arsenic, total	0.477 (0.361/0.620)	0.322 (0.054/0.483)	0.0044	0.180[1]
Barium, total	0.190 (ND/0.342)	0.169 (ND/0.322)	0.057	NA
Bicarbonate	569 (526/599)	360 (119/504)	0.2	NA
Biological oxygen demand	7.4 (ND/16)	6.7 (ND/13)	2.0	NA
Boron, total	60.3 (50.6/65.5)	56.7 (46.7/62.8)	0.61[2]	NA
Bromide	174 (140/201)	160 (132/186)	0.5[3]	NA
Cadmium, total	ND	ND	0.0012[4]	0.0052
Calcium, dissolved	302 (277/327)	288 (258/318)	0.7[5]	NA
Carbonate	ND	ND	0.2	NA
Chemical oxygen demand (COD)	2,420 (ND/7,020)	1,617 (ND/4,300)	617.0[6]	NA
Chloride	181,400 (159,000/194,00)	168,360 (144,000/181,000)	180.0	NA
Chromium, total	0.072 (0.014/0.250)	0.069 (ND/0.236)	0.0062[7]	0.0166
Copper, total	0.0391 (0.0182/0.0759)	0.0470 (0.0052/0.1360)	0.0182[8]	0.067
Cyanide, total	ND	ND	0.022[9]	0.0093
Hardness	59,692 (55,400/67,100)	56,256 (48,600/62,700)	11.7[10]	NA
Hydroxide	ND	ND	0.2	NA
Iron, total	0.58 (ND/0.80)	1.57 (ND/16.4)	0.57	NA
Lead, total	ND	ND[11]	0.0087[11]	0.0465
Lithium, total	67.7 (55.1/81.6)	30.8 (9.33/54.8)	0.403[12]	NA
Magnesium, total	14,312 (13,300/16,100)	13,480 (11,600/15,000)	2.4[13]	NA
Manganese, total	0.0411 (0.0264/0.0794)	0.2385 (0.0554/0.91)	0.0159[14]	NA
Mercury, total	33.2 ng/L (ND/211 ng/L)	39.9 ng/L (ND/109 ng/L)	9 ng/L[15]	0.000022
Molybdenum, total	0.136 (0.111/0.218)	0.111 (0.0169/0.312)	0.038[16]	NA
Nickel, total	0.049 (0.011/0.29)	0.052 (0.009/0.279)	0.0112[17]	0.376
Nitrate	ND	ND	6.64[18]	NA
Nitrite	ND	ND	0.01	NA
Oil and grease	ND	ND	5	NA
Potassium, total	8,662 (8,050/9,650)	8,138 (6,860/9,000)	8.6[19]	NA
Selenium, total	0.308 (0.074/0.908)	0.301 (0.012/0.933)	0.0141[20]	0.0079

Table 3. Summary of All Laboratory Analytical Results (Weeks 1–28)

Constituent	Influent Average (min/max)	Discharge Average (min/max)	Minimum Detection Limit (mg/L)	UPDES Specified Minimum Detection Limit (mg/L)
Silica, total	5.3 (ND/7.7)	5.7 (ND/9.2)	4.2	NA
Silver, total	ND	ND	0.008[21]	0.0899
Sodium, dissolved	92,920 (79,000/112,000)	86,568 (61,400/110,000)	343[22]	NA
Sulfate, dissolved	24,220 (10,200/28,100)	22,400 (12,600/28,200)	49.4[23]	NA
Total dissolved solids (TDS)	340,040 (311,000/363,000)	312,640 (259,000/362,000)	1,000[24]	NA
Total suspended solids (TSS)	111 (ND/530)	106 (6/454)	3[25]	NA
Zinc, total	ND	ND	0.05[26]	0.675

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. MDL for arsenic was reported as 0.0088 mg/L for week 1 and 0.022 mg/L for week 24.
2. MDL for boron was reported as 12.1 mg/L for week 9.
3. MDL for bromide varied between 0.5 and 4.7 mg/L.
4. MDL for cadmium was reported as 0.0061 mg/L for week 24.
5. MDL for calcium was reported as 14.6 mg/L for week 24.
6. MDL for COD was reported as 154 mg/L for weeks 1 through 11, 308 mg/L for week 12, and 617 mg/L for weeks 13 through 28.
7. MDL for chromium varied between 0.0062 and 0.0618 mg/L.
8. MDL for copper was reported as 0.0364 mg/L for week 1 and 0.0036 mg/L for week 5.
9. MDL for cyanide varied between 0.004 and 0.132 mg/L.
10. MDL for hardness varied between 11.7 and 234 mg/L.
11. MDL for lead was reported as 0.0174 mg/L for week 1 and 0.0435 mg/L for week 24; discharge value was reported at 0.015 mg/L for week 20.
12. MDL for lithium was reported as 8.07 mg/L for week 8.
13. MDL for magnesium was reported as 48 mg/L for weeks 8, 14, 15, 18, and 24, and 4.8 mg/L for week 4.
14. MDL for manganese was reported as 0.0318 mg/L for week 1.
15. MDL for mercury was reported as 44.9 ng/L for week 1 and 70 ng/L for week 27.
16. MDL for molybdenum was reported as 0.0075 mg/L for week 1 and 0.0188 mg/L for week 24.
17. MDL for nickel was reported as 0.0223 mg/L for week 1 and 0.112 mg/L for week 17.
18. MDL for nitrate was reported as 33.2 mg/L for week 10.
19. MDL for potassium was reported as 171 mg/L for weeks 8, 16, 18, and 24.
20. MDL for selenium was reported as 0.0283 mg/L for week 1 and 0.0707 mg/L for week 24.
21. MDL for silver was reported as 0.017 mg/L for week 1 and 0.042 mg/L for week 24.
22. MDL for sodium was reported as 172 mg/L for week 6.
23. MDL for sulfate was reported as 247 mg/L for weeks 1, 7, 9, 10, 12, 17–20, 23, and 26–28.
24. MDL for TDS was reported as 20 mg/L for week 4.
25. MDL for TSS varied between 0.8 and 8 mg/L.
26. MDL for zinc was reported as 0.09 mg/L for week 1.

Table 4. Summary of Performance Run Laboratory Analytical Results (Weeks 16–18)

Constituent	Influent Average (Min/Max) (mg/L)	Discharge Average (Min/Max) (mg/L)
Alkalinity	560 (552/569)	373 (312/414)
Aluminum, total	2.7 (1.2/5.2)	2.5 (1.2/5.1)
Arsenic, total	0.43 (0.39/0.48)	0.31 (0.31/0.32)
Barium, total	0.19 (0.18/0.20)	0.16 (0.15/0.18)
Bicarbonate	560 (552/569)	373 (312/414)
Biological oxygen demand	10 (9/11)	9 (7/10)
Boron, total	60.2 (59.3/61.0)	58.0 (57.4/58.6)
Bromide	173 (140/201)	156 (139/170)
Cadmium, total	ND (ND/ND)	ND (ND/ND)
Calcium, dissolved	291 (277/300)	284 (270/293)
Calculated silicon[1]	2.5 (2.3/2.7)	3.1 (2.9/3.4)
Carbonate	ND (ND/ND)	ND (ND/ND)
Chemical oxygen demand (COD)	1,006 (617/1200)	845 (617/1,300)
Chloride	182,333 (177,000/187,000)	173,333 (166,000/181,000)
Chromium, total	0.048 (0.021/0.062)	0.051 (0.030/0.062)
Copper, total	0.039 (0.030/0.052)	0.040 (0.032/0.054)
Cyanide, total	ND (ND/ND)	ND (ND/ND)
Hardness	58,800 (58,100/59,600)	56,833 (55,500/57,900)
Hydroxide	ND (ND/ND)	ND (ND/ND)
Iron, total	ND (ND/ND)	1.72 (1.30/2.40)
Lead, total	ND (ND/ND)	ND (ND/ND)
Lithium, total	67.4 (66.1/69.6)	16.0 (14.4/18.8)
Magnesium, total	14,100 (13,900/14,300)	13,633 (13,300/13,900)
Manganese, total	0.038 (0.030/0.043)	0.163 (0.141/0.182)
Mercury, total	25.3 (23.3/27.2)	28.6 (24.9/31.4)
Molybdenum, total	0.126 (0.122/0.132)	0.081 (0.055/0.122)
Nickel, total	0.052 (0.015/ND)	.0512 (ND/ND)
Nitrate	ND (ND/ND)	ND (ND/ND)
Nitrite	ND (ND/ND)	ND (ND/ND)
Oil and grease	ND (ND/ND)	ND (ND/ND)
Potassium, total	8,423 (8,280/8,600)	8,137 (7,880/8,480)
Selenium, total	0.185 (0.101/0.238)	0.242 (0.121/0.342)
Silica, total	5.4 (5.0/5.8)	6.7 (6.3/7.3)
Silver, total	ND (ND/ND)	ND (ND/ND)
Sodium, dissolved	95,100 (94,200/96,700)	92,500 (90,300/93,600)
Sulfate, dissolved	25,400 (24,300/26,700)	25,167 (25,000/25,300)
Total dissolved solids (TDS)	341,667 (335,000/349,000)	328,667 (326,000/332,000)
Total suspended solids (TSS)	127 (62/228)	112 (64/175)
Zinc, total	ND (ND/ND)	ND (ND/ND)

Definitions: max = maximum; MDL = minimum detection limit; mg/L = milligrams per liter; min = minimum; NA = not applicable; ND=nondetect (not detected above MDL); ng/L = nanograms per liter

1. This is a calculated value based on silica data.

3.3 Chemistry Monitoring Results Discussion and Graphs

This section reviews the results Demonstration Plant weekly laboratory analyses and summarizes the monitoring results for metals, salts, manganese, and lithium. The metal constituents reviewed are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc, and the salts constituents reviewed are calcium, chloride, magnesium, potassium, sodium, and sulfate. Metals and salts, as well as other constituents (manganese and lithium), are required to be analyzed and reported by the UPDES permit and GSL Mineral Extraction Facility Operator Certification rules.

Data results for all constituents are summarized in Table 3 above, and laboratory results spreadsheets are attached in Appendix B, *Laboratory Data Results*.

To evaluate whether changes in metals, salts, and minerals (manganese and lithium) discharge concentrations (as compared to intake concentrations) result in a change in chemistry in the North Arm of the GSL. Waterleaf uses various lines of evidence, which consist of the following,

- MDLs and uncertainty of data
- Lack of comparable historic North Arm chemistry data and numeric water quality standards
- Relative increase or decrease in average concentrations (Table 3 above) as compared to MDLs and uncertainty
- Relative increase or decrease in average concentrations during the performance run (Table 4 above)
- Outlier analysis (Table 5 below)
- Relative increase or decrease in normal operations average concentrations (removing the first 5 weeks of start-up operations; see Table 6 below)
- Total change in mass loadings (discharge load subtracted from influent load) based on average concentrations, as compared to North Arm mass, at current water surface elevations (WSE) (Table 7, Table 8, and Table 9 below)
- Biota study results

3.3.1 Minimum Detection Limits and Uncertainty

Chemical analyses on the GSL brine samples and specifically North Arm brine samples are difficult to perform because of the high density, high salinity, and other unique characteristics of GSL brine. These characteristics interfere with laboratory means and methods. Due to these interferences, data results can often have various MDLs, various dilution rates, and large spike recovery ranges, all of which create a level of error and uncertainty. Although this error and uncertainty exists, the individual laboratory test results met data quality criteria and equipment precision ranges.

Overall, the MDLs for the analyzed constituents were consistent and met UPDES requirements. The laboratory data quality packages reported a few cases in which the MDL for selenium was not met. Level IV laboratory data quality results also documented dilution rates and spike recovery rates to meet quality control and assurance requirements.

Waterleaf also uses context when reviewing the data. Some constituents were analyzed at MDLs that were less than designated by the UPDES, as shown in Table 3 above. For example, copper was analyzed with an MDL of 0.0182 mg/L, which is below the UPDES stated MDL of 0.067 mg/L. So, when the influent and discharge average values are calculated at 0.0391 mg/L and 0.0470mg/L, respectively, they are below the UPDES stated MDL and might be considered comparable. Very low MDLs can bias the review of the data by detecting increases and decreases in concentration that are insignificant compared to other data sets.

Error and uncertainty (lab interference) need to be considered when reviewing the data. The heavy brine requires that samples are diluted to effectively be analyzed by equipment that is normally processing fresh water samples. The dilution rates for analyses ranged from undiluted (rate of 1)to 6, 20, and 50 up to a high of 100. Also, all samples were analyzed independently, so the intake and discharge samples for the same day might be diluted differently. Laboratory method accuracy is measured by percent recovery, and these percent recoveries vary for the different methods used for this project. For example, salts generally have a ±20% recovery, while metals have a ±15% recovery. The Utah Geological Survey has estimated that, for most GSL data, a minimum error of about 10% could be attributed to the challenges of processing the brine, based on conversations with the analytical laboratory (UGS 2025).

Waterleaf did report all data to UDWQ consistent with UPDES compliance monitoring requirements. That being said, the laboratory chemical analyses and results provided are adequate to meet the data quality objectives of the monitoring, which are to characterize the chemistry of the North Arm raw brine that is used as influent water to the lithium extraction process and to characterize the discharge of the lithium-depleted brine back to the North Arm.

3.3.2 Outlier Analyses

As with any data set, results often include concentrations that are unusually high or low—or in other words, outside the normal or expected range. To evaluate the impact of outliers on the Demonstration Plant data set, an outlier analysis was performed to identify whether outliers occurred extensively throughout the data set. Waterleaf determined that they did not. Therefore, Waterleaf included all data in the calculation of average, minimum, and maximum. Below is a summary of the outlier analyses and the results.

An IQR outlier analysis was conducted on the laboratory data results for each constituent's influent and discharge data. This analysis requires calculating the upper-quartile boundaries and then comparing the data to this threshold. Data points above this threshold are considered outliers.

In all, of the 1,900 data points analyzed for 38 constituents, 18 constituents were determined to have 59 data exceedances; that is, 59 data points were above the upper-quartile boundary. Of these 59 data points, 34 were influent outlier points and 25 were discharge outlier points. The results of the outlier analyses for those constituents with data exceedances are shown in Table 5 below.

Of note, outlier analyses were not conducted on the 10 constituents with nondetected concentrations. Also, the lower-quartile boundary analyses were not completed due to the presence of nondetection concentrations.

This analysis provides further evidence that the significant variations in data results are limited—using the IQR analytical methodology, about 3.1% of the data reported are considered outliers (outside the upper-quartile boundary).

Based on the IQR outlier analyses for all constituents analyzed, Waterleaf determined that the outliers did not occur extensively. Therefore, all data are included in the calculation of average, minimum, and maximum concentrations.

Table 5. Summary of Outlier Analyses

Constituent	Influent Outliers			Discharge Outliers		
	Influent Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances	Discharge Average (mg/L)	Upper Boundary (mg/L)	Number of Exceedances
Aluminum, total	1.7	3.0	1	1.6	2.5	2
Barium, total	0.190	0.238	3	0.169	0.248	2
Bromide	0.173	200.5	1	160.1	192.5	0
COD	2,420	4,450	4	1,1617	4,650	0
Chromium, total	0.072	0.196	2	0.069	0.176	2
Copper, total	0.0391	0.0661	2	0.0470	0.0753	2
Hardness	59,692	64,100	2	56,256	65,200	0
Iron, total	0.58	0.57	1	1.57	2.4	2
Lead, total	0.0104	0.0087	0	0.0107	0.0087	1
Lithium, total	67.7	73.0	2	30.6	91.7	0
Magnesium, total	14,312	15,400	2	13,480	15,600	0
Manganese, total	0.0411	0.0550	2	0.239	0.511	1
Mercury, total	33.2	33.7	2	39.9	52.8	3
Molybdenum, total	0.136	0.163	1	0.111	0.178	4
Nickel, total	0.049	0.091	4	0.052	0.087	3
Potassium, total	8,662.4	9,535	1	8,138	9,455	0
Sodium, dissolved	92,920	108,100	1	86,568	114,300	0
TSS	110.9	278.5	3	105.6	264.0	3

Definitions: COD = chemical oxygen demand; mg/L = milligrams per liter; TSS = total suspended solids

3.3.3 Metals Discussion

In this section, Waterleaf reviews the laboratory data results for metal constituents. Metals are often the focus of review due to their potential toxicity and their regulation by the Clean Water Act. Metal MDLs and loads were specific components of the UPDES permit. As stated in Section 1.2, *Background*, the North Arm is protected for recreation and wildlife use; however, numeric water quality standards have not been established.

The metal constituents discussed below are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver, and zinc.

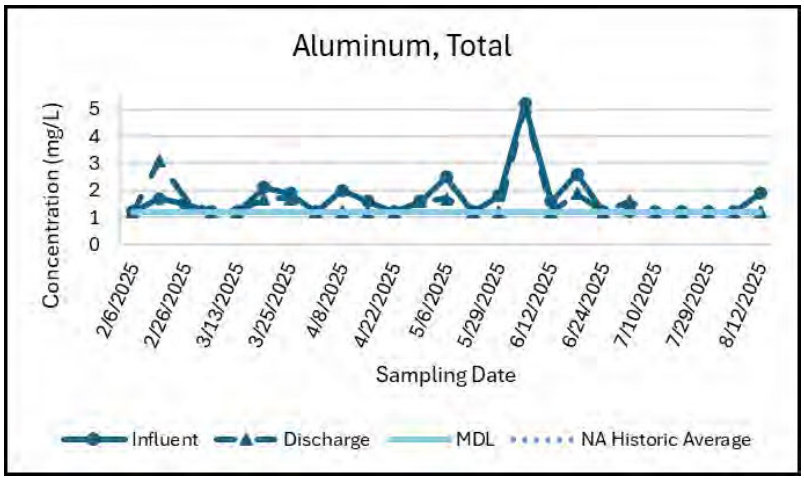
Metals That Were Not Detected. The data results reported four metal constituents (cadmium, lead, silver, and zinc) as nondetected for both influent and discharge concentrations for the entire 28-week operation of the Demonstration Plant, including the start-up and performance run periods (Table 3 above).

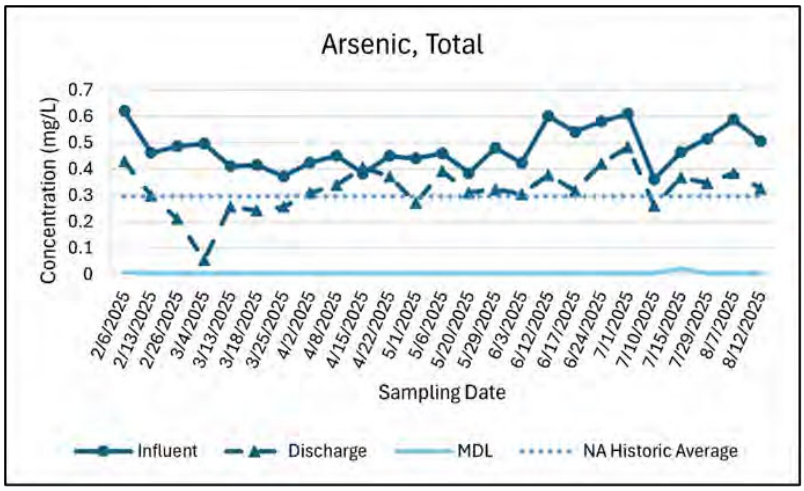
Metals with Lower Discharge Concentrations. Seven metal constituents (aluminum, arsenic, barium, boron, chromium, molybdenum, and selenium) were reported with lower average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 1 for these seven constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023). For some constituents, historical data were not available.

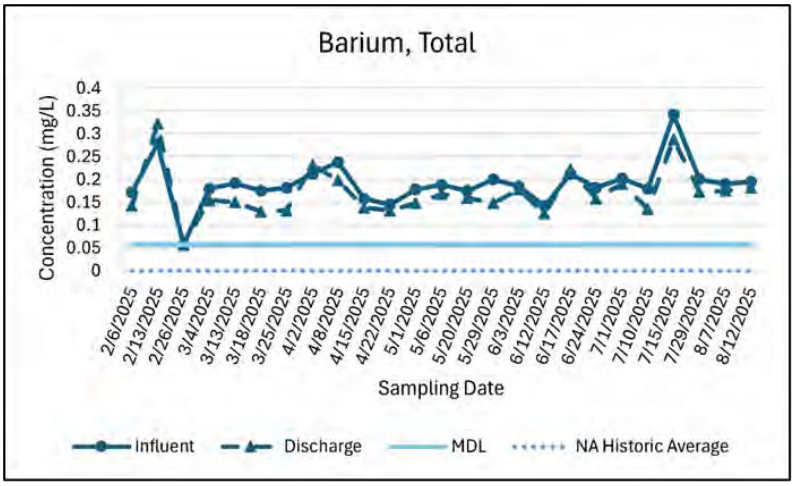
The data for the entire 28-week operation indicate the following decreases in average discharge concentrations compared to average influent concentrations: aluminum (decrease of 7%), arsenic (decrease of 32%), barium (decrease of 11%), boron (decrease of 6%), chromium (decrease of 4%), molybdenum (decrease of 18%), and selenium (decrease of 2%).

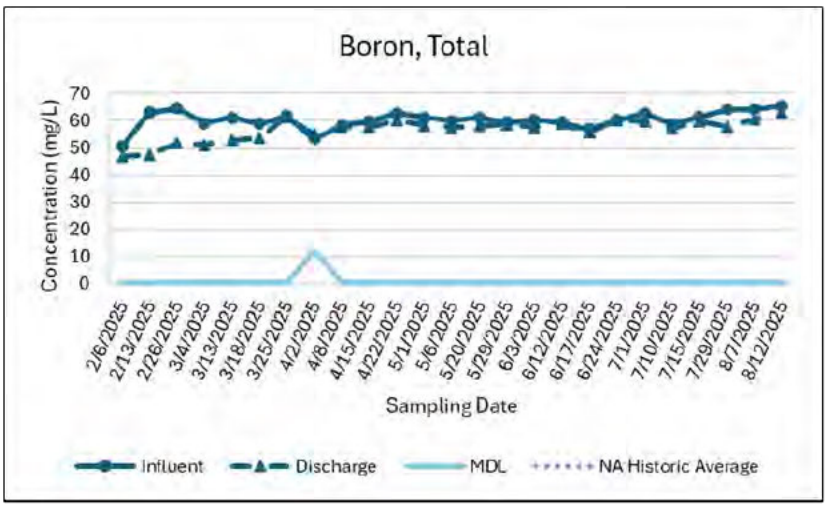
These constituents also showed average decreased concentrations compared to intake concentrations during the performance run (weeks 16–18) (Table 4 above), with the exception of chromium and selenium, for which average discharge concentrations increased above average intake concentrations. If the uncertainty estimate of 10% is taken into perspective, the decreases for aluminum, boron, chromium, and selenium are within this error range.

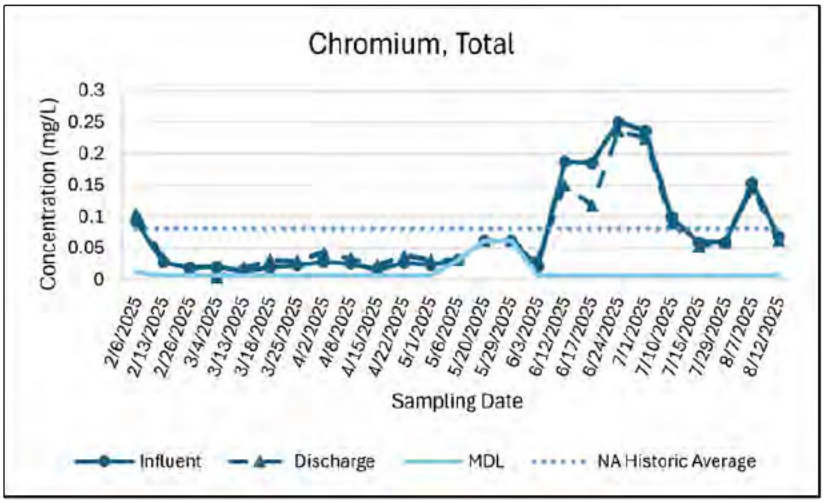
Figure 1. Graphs of Metal Constituents with Lower Average Discharge Concentrations

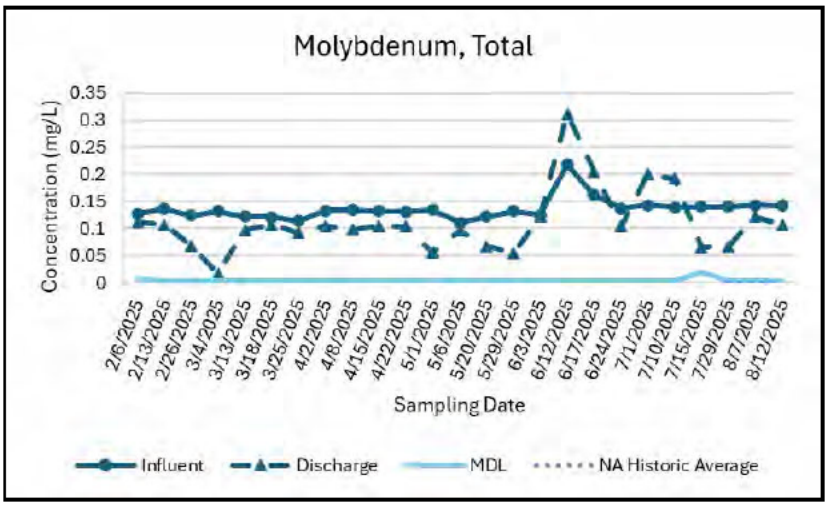


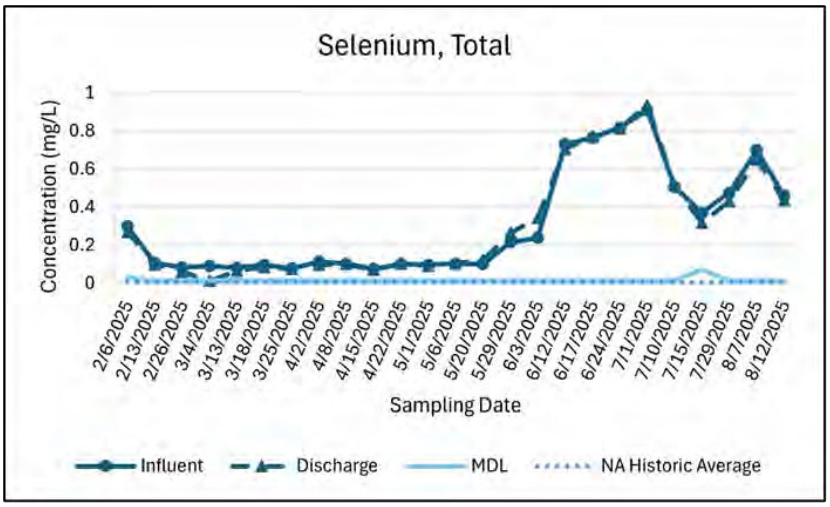





Boron, Total
Concentration (mg/L)
70
60
50
40
30
20
10
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Chromium, Total
Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

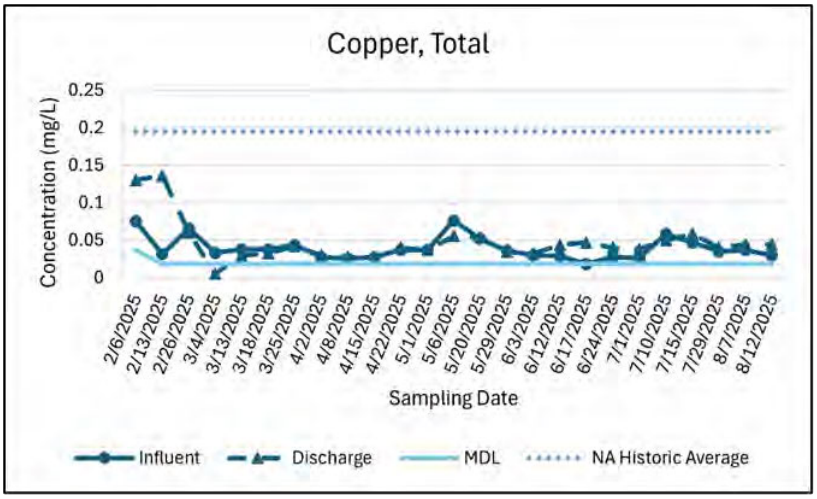

Molybdenum, Total
Concentration (mg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

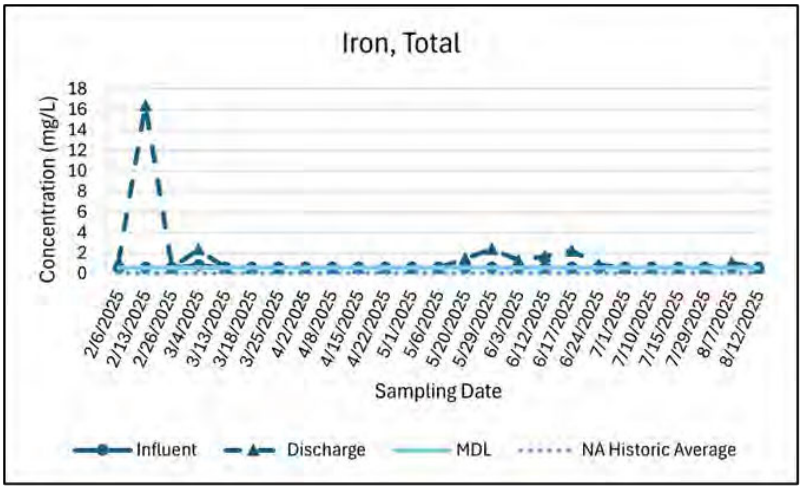


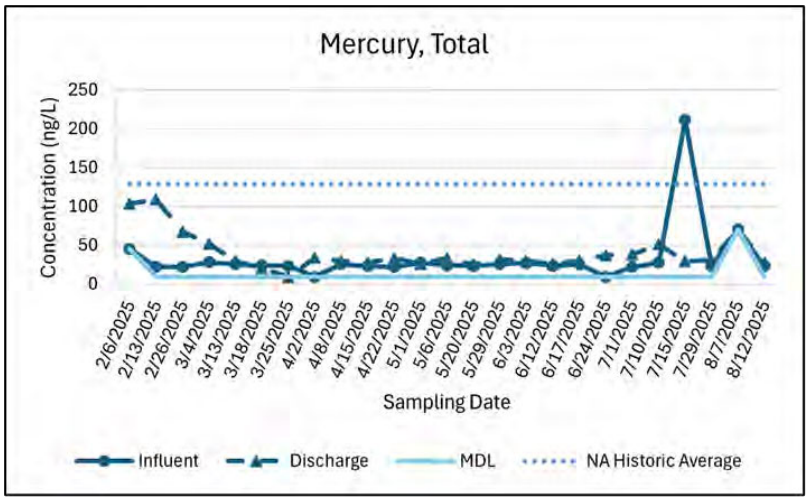
Metals with Higher Discharge Concentrations. Four metal constituents (copper, iron, mercury, and nickel) were reported with higher average discharge concentrations than average influent concentrations during the Demonstration Plant's operation. Weekly laboratory data for influent and discharge concentrations are graphically shown below in Figure 2 for these four constituents along with laboratory MDLs and North Arm historical averages. North Arm historical averages were determined by analyzing the UDWQ water quality database, North Arm monitoring locations, and reported values (HDR 2023).

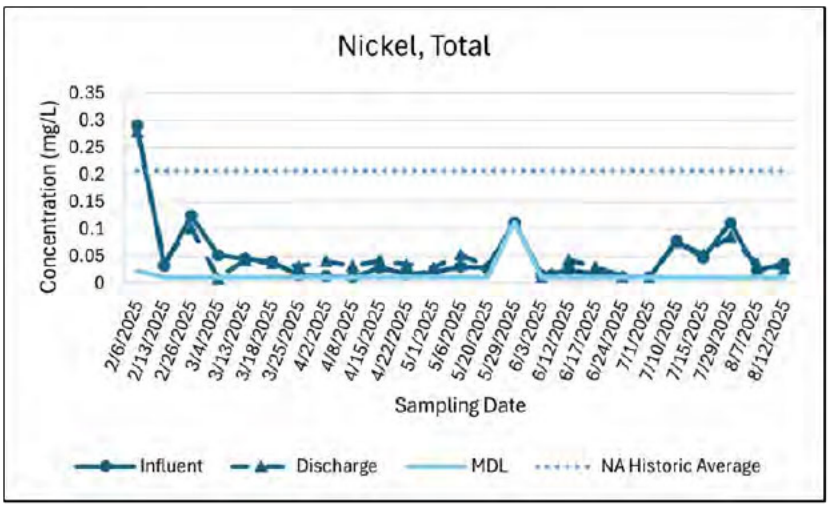
The increases in average discharge concentrations compared to the average influent concentrations are: copper (increase of 20%), iron (increase of 272%), mercury (increase of 20%), and nickel (increase of 6%). Based on a review of the graphs and the data, it is apparent that, during the Demonstration Plant's start-up period, discharge concentrations for these metals were higher than during the following weeks. Waterleaf conducted further review of the data and operations during this start-up period to determine the cause of the data spikes. Waterleaf determined that, during start-up operations (weeks 1–5), processes and equipment were the cause of the data spikes for certain metal constituents, because these four constituents are not a component of the DLE process.

Figure 2. Graphs of Metal Constituents with Higher Average Discharge Concentrations









The increases in discharge concentrations (compared to influent concentrations) for copper, iron, mercury, and nickel during the start-up period can be partially attributed to the Demonstration Plant's equipment being made from carbon steel, stainless steel, and other corrodible materials. Equipment becomes corroded from exposure to the high-saline North Arm brine and exposure to oxygen. Evidence of corrosion consisted of higher concentrations of four metals (copper and iron, plus mercury and nickel) during the first 5 weeks, which was the Demonstration Plant's start-up period of operation, as well as visual observations of rust flakes in the discharge. During investigations to identify the source of the rust flakes in the discharge, observations were made confirming that the carbon steel frac tanks being used to store raw brine and depleted brine were in fact showing signs of corrosion.

After the initial start-up period of 5 weeks, rust flakes were not observed, and the discharge concentrations became more consistent. Table 6 compares the average influent and discharge results for the start-up period (weeks 1–5) and regular operations (weeks 6–28). As the data indicate, average discharge concentrations drastically reduced after the initial plant start-up process. After start-up, mercury and nickel average discharge concentrations decreased compared to average influent concentrations. Copper and iron results reported an increase in average discharge concentrations compared to average influent concentrations.

Table 6. Metal Concentration Data Comparison of Start-up and Regular Operations

Constituent	Start-up (Weeks 1–5)		Operation (Weeks 6–28)	
	Influent Average (mg/L)	Discharge Average (mg/L)	Influent Average (mg/L)	Discharge Average (mg/L)
Copper, total	0.0513	0.0829	0.0368	0.0401
Iron, total	0.628	5.10	ND (<0.57)	0.902
Mercury, total	29.2 ng/L	82.8 ng/L	34.0 ng/L	31.7 ng/L
Nickel, total	0.124	0.108	0.0348	0.0412

Definitions: mg/L = milligrams per liter; ND = nondetect; ng/L = nanograms per liter

These four constituents, along with chromium and selenium, had increased discharge concentrations compared to influent concentrations during the performance run period.

Waterleaf noticed that iron discharge concentrations increased during a 6-week period during regular operations and conducted further analyses. Most of the iron intake and discharge concentration results were reported nondetect, except during start-up operations and during a 6-week period (weeks 16–22). The increased discharge concentrations during start-up were discussed above. The increased discharge concentrations for weeks 16–22 followed a period of no discharge (week 15). During week 15, the plant experienced equipment failures and did not operate. When the plant was brought back online with replacement equipment operating, increases in iron discharges occurred until the process recovered (week 22). Iron discharge concentrations were reported nondetect during the remainder of operation (weeks 22–28).

Metal Load Analyses. To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the metal constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks), including outliers, compared to North Arm mass. Demonstration Plant loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The resulting mass load due to Demonstration Plant operation is shown in Table 7.

Table 7. Metals Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Aluminum, total	1.7	15.49	1.6	15.13	−0.36	14,978,200
Arsenic, total	0.477	4.35	0.322	3.04	−1.3	4,202,700
Barium, total	0.190	1.73	0.169	1.60	−0.13	1,674,000
Boron, total	60.3	549.3	56.7	536.1	−13.2	531,286,700
Chromium, total	0.072	0.66	0.069	0.65	−0.01	634,400
Copper, total	0.0391	0.36	0.0470	0.44	0.09	344,500
Iron, total	0.58	5.28	1.57	14.84	9.56	5,110,200
Mercury, total	0.0000332	1.65	0.0000399	2.0	0.35	290
Molybdenum, total	0.136	1.24	0.111	1.05	−0.19	1,198,300
Nickel, total	0.049	0.45	0.052	0.49	0.04	431,700
Selenium, total	0.308	2.81	0.301	2.85	0.04	2,713,700

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af and average influent concentrations

In considering the mass decreases in the North Arm for aluminum, arsenic, barium, boron, chromium, and molybdenum discharges (Table 7 above), mass decreases due to

Demonstration Plant operations are in the range of 0.000002% to 0.00003% compared to North Arm total mass and are considered by Waterleaf to be *de minimis*.

In considering the mass load increases to the North Arm from the Demonstration Plant (Table 7 above), increases for copper (0.00002%), nickel (0.000009%) and selenium (0.0000015%) are considered by Waterleaf to be *de minimis*. The mass increase of iron to the North Arm is estimated at 9.6 pounds (lb), compared to 5.11 million pounds, or an increase of 0.0002%, which is also considered by Waterleaf to be *de minimis*.

The mercury data indicate that the mass load to the North Arm resulted in a 0.35-lb increase, compared to a North Arm mass of 290 lb, or an increase of 0.12%, which is considered by Waterleaf to be not significant. The bulk of this mass load occurred during the start-up period (Figure 2 and Table 6 above). Although mercury concentrations in the discharge during start-up operations were higher than in the influent, subsequently, during the remainder of the Demonstration Plant's operation, average discharge concentrations were less than average influent concentrations.

A review of the start-up comparison (Table 6 above) and investigation into the source of the corrosion revealed conditions specific to the Demonstration Plant's equipment. Comparing the data collected during remainder of the operations and performance run data run (Table 4 above), the temporary discharge of mercury mass load to the North Arm, due to start-up operations, is considered by Waterleaf to be not significant.

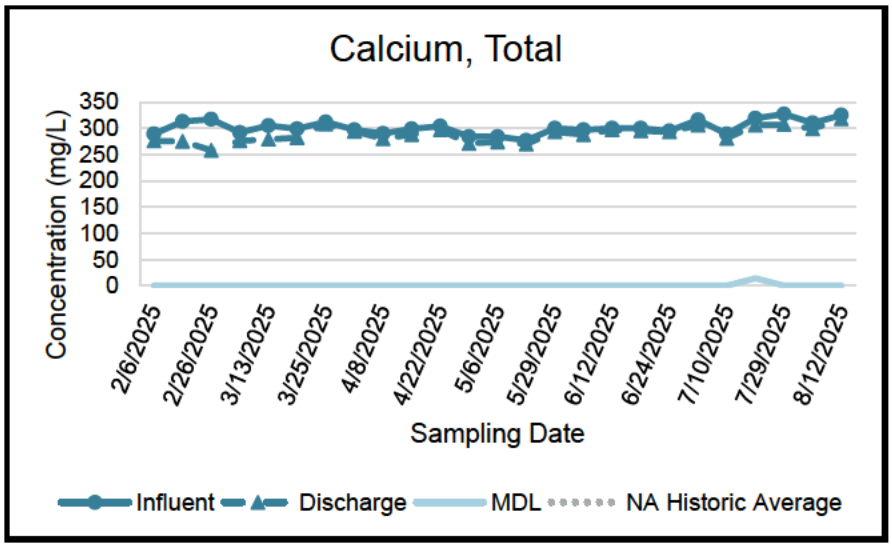
3.3.4 Salts Discussion

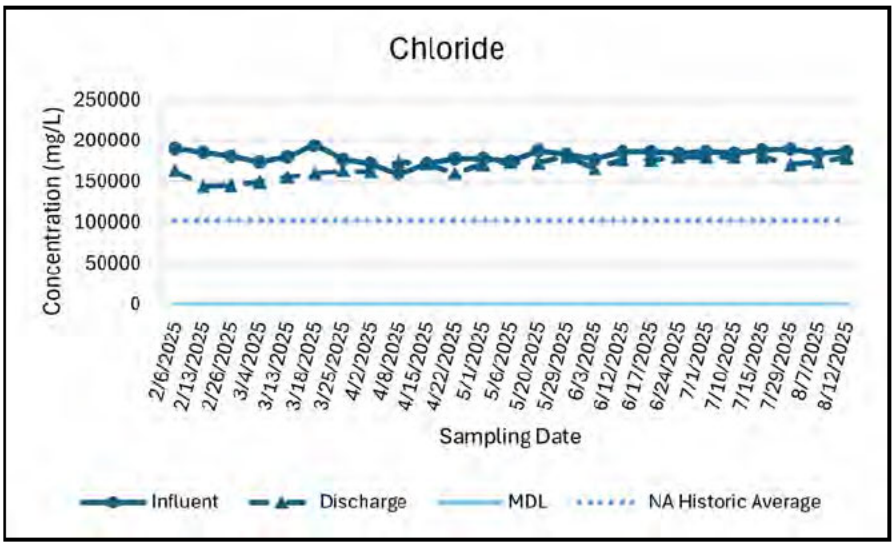
In this section, Waterleaf reviews the laboratory data results for salt constituents. GSL salts are important because they support the mineral extraction industry.

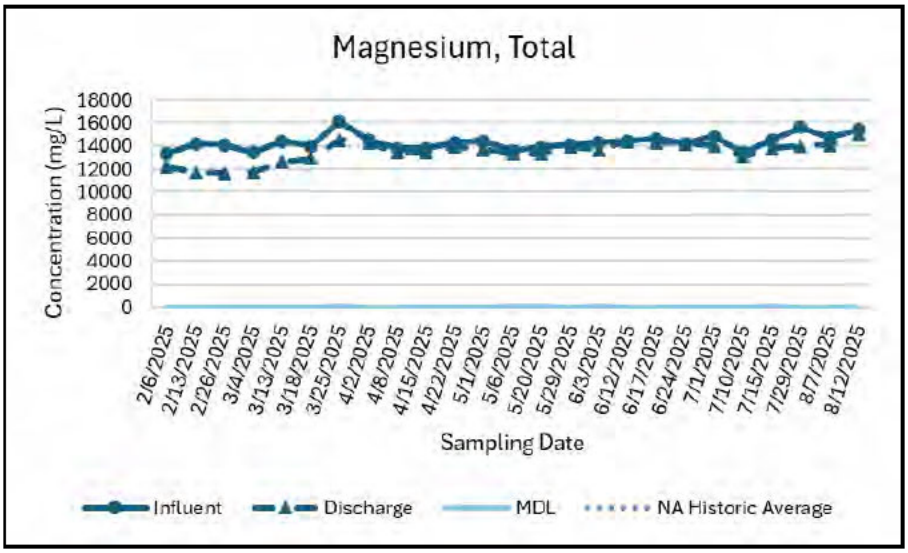
All salt cations and anions were reported with lower discharge concentrations than influent concentrations. These salt constituents are calcium, chloride, magnesium, potassium, sodium, and sulfate. The monitoring data for these constituents are graphed in Figure 3 below. Salt constituents' average discharge concentrations decreased in the range of 4.6% to 7.5% compared to average influent concentrations. This range is comparable to the average discharge concentration decrease in TDS of 8% compared to the average influent concentration.

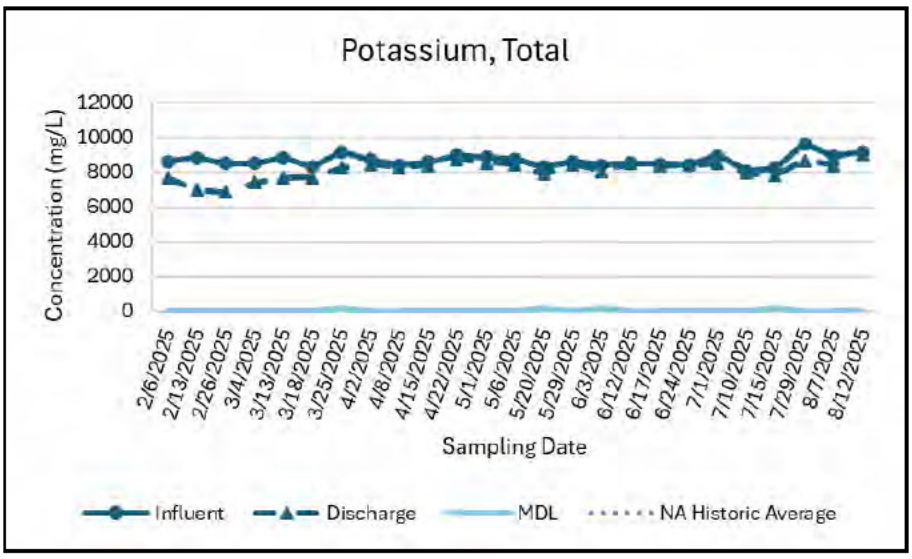
To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, mass loads for the salt constituents were reviewed. Demonstration Plant mass loads were determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass loads were calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the salt constituents mass in the North Arm. The mass load comparison is shown in Table 8 below.

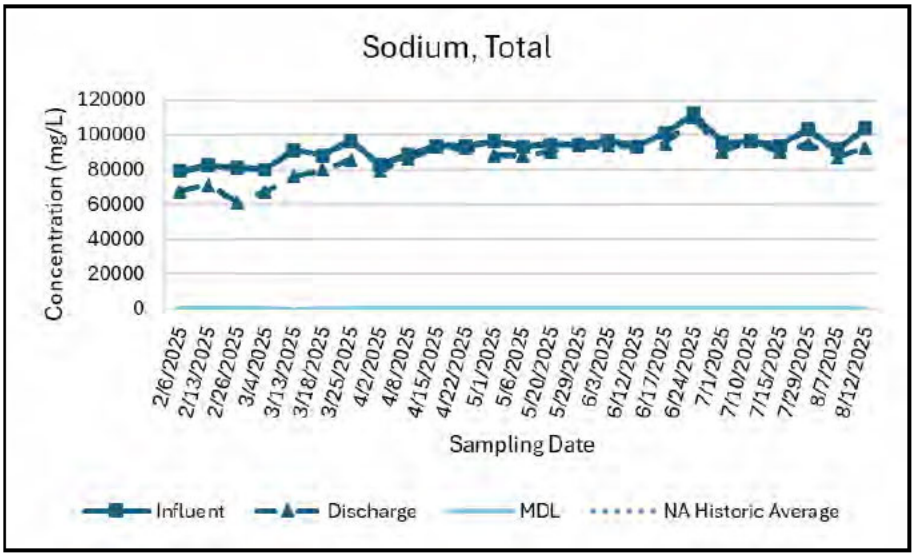
Figure 3. Graphs of Salt Constituents








Potassium, Total
Concentration (mg/L)
12000
10000
8000
6000
4000
2000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average


Sodium, Total
Concentration (mg/L)
120000
100000
80000
60000
40000
20000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
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8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

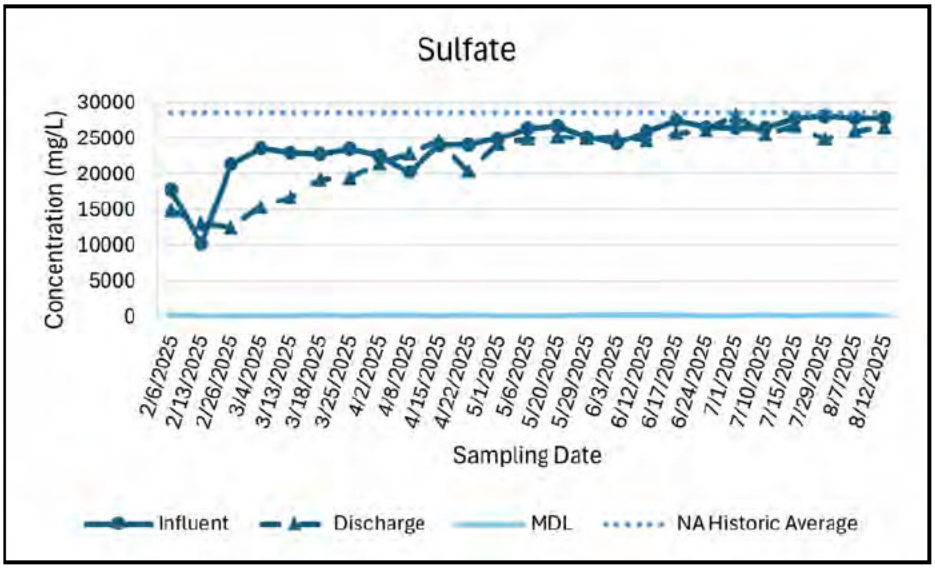

Sulfate
Concentration (mg/L)
30000
25000
20000
15000
10000
5000
0
2/6/2025
2/13/2025
2/26/2025
3/4/2025
3/13/2025
3/18/2025
3/25/2025
4/2/2025
4/8/2025
4/15/2025
4/22/2025
5/1/2025
5/6/2025
5/20/2025
5/29/2025
6/3/2025
6/12/2025
6/17/2025
6/24/2025
7/1/2025
7/10/2025
7/15/2025
7/29/2025
8/7/2025
8/12/2025
Sampling Date
Influent
Discharge
MDL
NA Historic Average

Table 8. Salt Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Calcium	302	2,750	288	2,720	−30	2,657,315,000
Chloride	181,400	1,652,500	168,400	1,591,900	−60,600	1,598,265,596,000
Magnesium	14,312	130,400	13,480	127,500	-2,900	126,099,103,000
Potassium	8,662	78,900	8,138	76,900	-2,000	76,322,028,000
Sodium	92.920	846,500	86,568	818,500	-28,000	818,692,609,000
Sulfate	24,220	220,600	22,400	211,800	-8,800	213,395,770,000

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

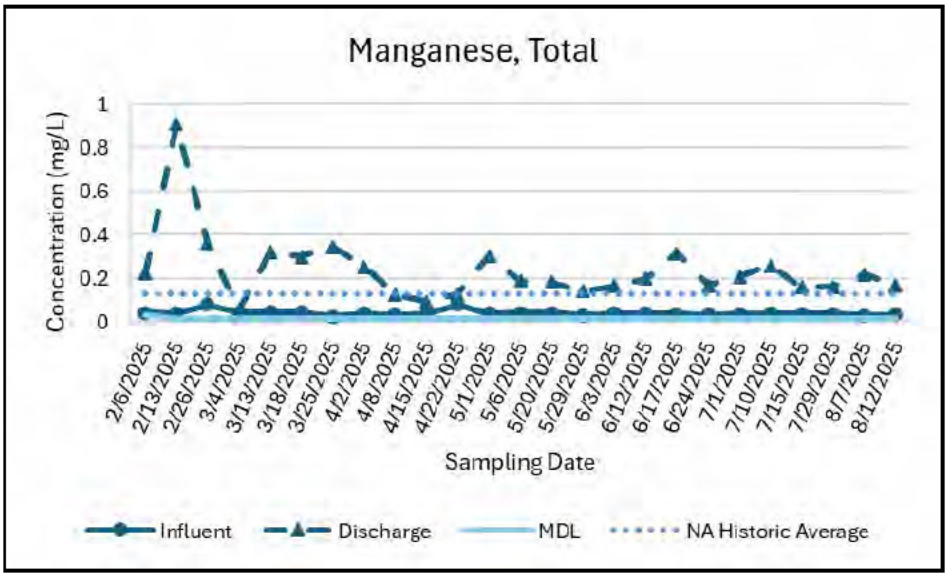
1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

In assessing the mass decreases in the North Arm for salt constituents due to the Demonstration Plant's operation, mass decreases are considered by Waterleaf to be *de minimis*.

3.3.5 Manganese

Manganese is identified as a component of the DLE process and is discharged from the Demonstration Plant. This is the only constituent that resulted in higher concentrations in the discharge compared to the influent concentrations because of the DLE process. Figure 4 below shows the results of the weekly influent and discharge compliance sampling for manganese.

Figure 4. Graph of Manganese Influent and Discharge Data



Average discharge concentrations are reported higher than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods.

To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the increase of the North Arm manganese mass was reviewed. Demonstration Plant manganese mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant added about 1.88 lb of manganese to the mass in the North Arm, or, in other words, the mass of the North Arm increased by about 0.00052%. This increase in North Arm manganese mass due to the operation of the Demonstration Plant is considered by Waterleaf to be *de minimis*. The mass load comparison for manganese is shown in Table 9.

Table 9. Manganese Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Manganese	0.0411	0.37	0.2385	2.26	1.88	362,100

Definitions: af = acre-feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

Waterleaf conducted additional data review related to the discharge of manganese. There are no federal or state water quality standards for manganese levels for

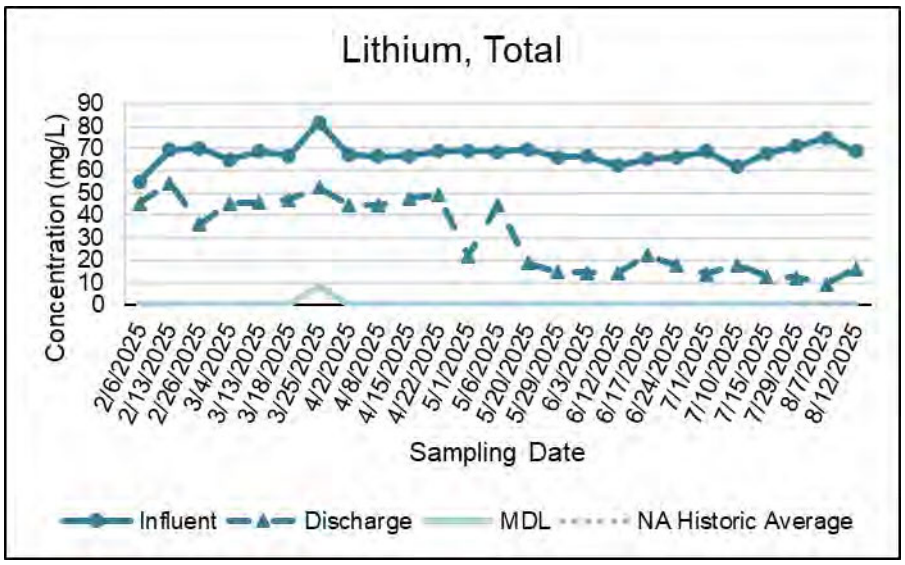
recreational exposures. Manganese is a mineral that exists naturally in the GSL and other freshwater bodies. Federal guidelines are published for dermal exposure to manganese during showering with tap water (drinking water) (HDR 2025). Waterleaf asserts that the manganese in the North Arm and in the depleted brine discharge is in solution and will not precipitate. This review determined that the increase in manganese discharged to the GSL due to the Demonstration Plant was not significant compared to existing standards and guidelines, existing North Arm loads, and protection of existing beneficial uses.

3.3.6 Lithium

Lithium is the targeted mineral for extraction by the Demonstration Plant. As a result, average discharge concentrations are less than average influent concentrations over the entire duration of the Demonstration Plant's operation, including the start-up and performance run periods. The extraction of lithium from the GSL is overseen by UDFFSL, and royalties are paid by Waterleaf in accordance with GSL mineral extraction facility rules.

Figure 5 shows the results of the weekly influent and discharge compliance sampling for lithium.

Figure 5. Graph of Lithium Influent and Discharge Data



To help determine impacts to North Arm chemistry due to operation of the Demonstration Plant, the decrease of the North Arm lithium mass was reviewed. Demonstration Plant lithium mass load was determined using all the laboratory data during operations (28 weeks). Demonstration Plant mass load was calculated by subtracting average influent concentration and influent volume from average discharge concentrations and discharge volume. North Arm mass was calculated using the average influent concentration and the North Arm volume at a WSE of 4,192 feet. The result indicates that the Demonstration Plant reduced the North Arm lithium mass by about 326 lb, or, in other words, the mass of the North Arm decreased by about 0.000055%. This decrease in North Arm lithium mass due to the operation of the Demonstration Plant is

considered by Waterleaf to be *de minimis*. The mass load comparison for lithium is shown in Table 10.

Table 10. Lithium Load Comparison of Demonstration Plant Operations and North Arm

Constituent	Influent Average (mg/L)	Influent Load[1] (lb)	Discharge Average (mg/L)	Discharge Load[2] (lb)	Load to North Arm (lb)	North Arm Mass[3] (lb)
Lithium	67.7	617	30.8	291	-326	594,724,000

Definitions: af = acre=feet; lb = pounds; mg/L = milligrams per liter; WSE = water surface elevation

1. Based on a Demonstration Plant total intake volume of 3.35 af
2. Based on a Demonstration Plant total discharge volume of 3.47 af
3. North Arm Mass based on WSE of 4,192 feet and volume of 3,240,000 af with average influent concentrations

3.4 Field Chemistry Results

As identified in Table 1 above, field measurements were taken during the compliance monitoring events for influent and discharge flows. These field measurements are density, dissolved oxygen, pH, and temperature.

Table 11 summarizes the field measurements. Parameter-specific discussions follow the table.

Table 11. Summary of Field Measurements

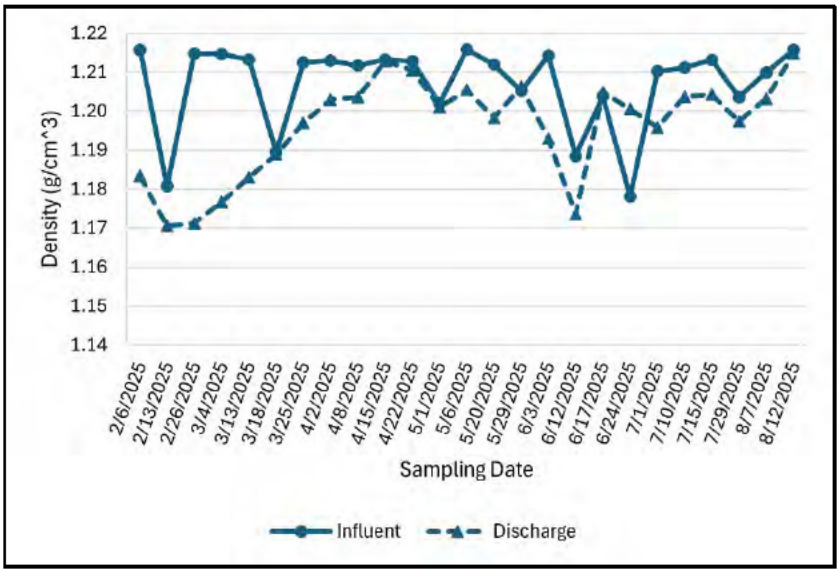
Field Parameter	Influent Average	Discharge Average	UPDES Limit
Density, g/cm^3	1.21	1.20	NA
Dissolved oxygen, mg/L	7.12	6.44	NA
pH	7.52	7.40	6.5–9
Temperature, °C	NA	NA	NA

Definitions: °C = degrees Celsius; g/cm^3 = grams per cubic centimeter; mg/L = milligrams per liter; NA = not applicable; UPDES = Utah Pollutant Discharge Elimination System

3.4.1 Density

Influent density was relatively consistent, ranging between 1.21 and 1.22 grams per cubic centimeter (g/cm^3). The influent density dipped on several occasions, and these dips were reasoned to be due to environmental conditions, specifically recent rainfall and the shallowness of the intake infrastructure (Figure 6 below).

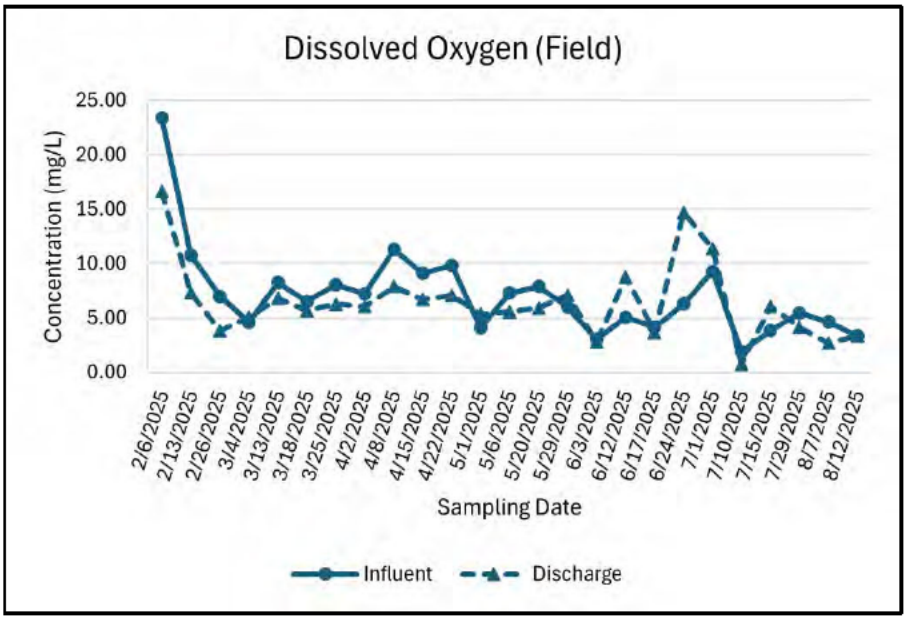
Figure 6. Density Graph



3.4.2 Dissolved Oxygen

Generally, the discharge dissolved oxygen (DO) measurements were less than the influent DO measurements. At the start of the Demonstration Plant's operation, more groundwater than North Arm brine was processed, resulting in higher DO levels (Figure 7).

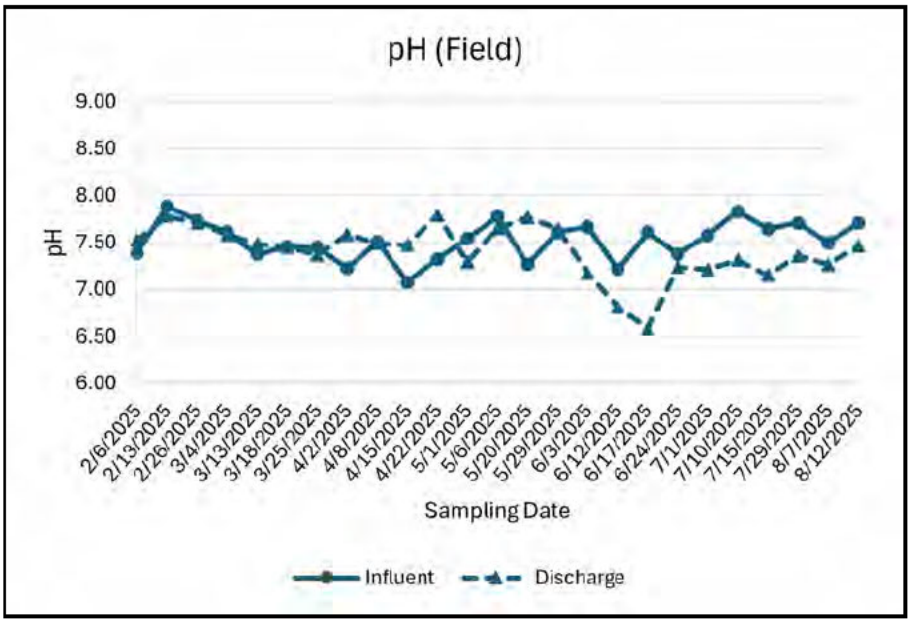
Figure 7. Dissolved Oxygen Graph



3.4.3 pH

Field measurements of pH for both the influent and discharge flows met the UPDES permit limit range of 6.5–9 (Figure 8).

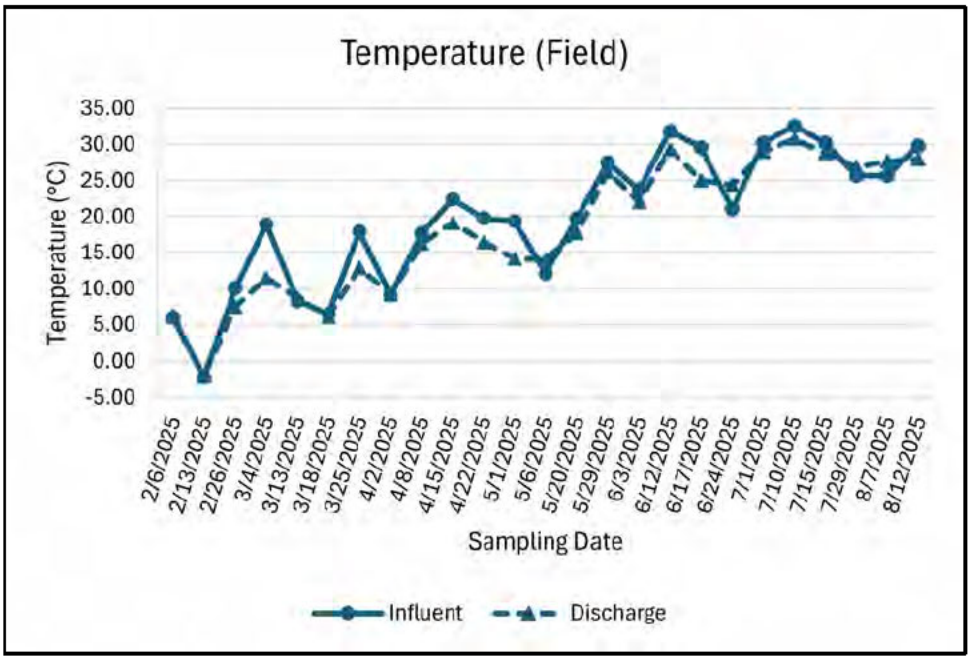
Figure 8. pH Graph



3.4.4 Temperature

Influent and discharge flow temperature measurements rose over the operation of the Demonstration Plant, following the expected seasonal warming of North Arm brine between February and August (Figure 9).

Figure 9. Temperature Graph



3.4.5 Influent and Discharge Water Salinity

HDR collected and reported the density at the intake and outfall locations during the Demonstration Plant's operation. These measurements were taken using an Anton Paar density meter. Per UDWQ rules, the Demonstration Plant cannot negatively alter the salinity of the North Arm of the GSL (UAC R317-16-2(16)(a)).

The GSL's salinity values were calculated using the formula below and documented in Open-File Report 0728, *Standard Operating Procedure – Great Salt Lake Water Density Measurement and Salinity Calculation* (UGS 2020).

$$S=\frac{\left(\left(\sqrt{\left(\left((1.04708-(0.00112*T))^{2}\right)-\left(4*0.000314721*(-(\rho*1000)+(\rho^{0}*1000)+(0.00199*T^{2})-(1.21061*T)+184.01602)\right)\right)}\right)+\left(-(1.104708-(0.00112*T))\right)\right)}{(2*0.000314721)}$$

ρ = density of GSL water (g/cm^3)
ρ^0 = density of pure water (g/cm^3)
S = salinity (g/L)
T = water temperature (°K)

However, as described in Open-File Report 0728, this salinity calculation is specific to typical South Arm densities, or salinity values up to about 18%. For salinity values above 18%, the result "shall be noted as outside the salinity range used to develop the GSL Equation of State" (UGS 2020). In 2023, the U.S. Geological Survey (USGS) published a data release that increased the upper boundary of the GSL salinity equation to 1.214.

Because the North Arm densities exceed this upper boundary, the equation is not validated to calculate North Arm salinity values (USGS 2023). Therefore, the salinity values were not calculated for this report, and Waterleaf compared density values as a surrogate value for salinity. This analysis is provided to support the determination that the Demonstration Project did not negatively alter the salinity (density) of the GSL.

Density profile data are shown in Figure 6 above for the influent and discharge flows for each monitoring event. Table 12 on the following page shows the influent and discharge density values as measured. Waterleaf asserts that the discharge from the Demonstration Plant did not affect the overall density of the North Arm. This is based on (1) the density measurements made and (2) a comparison of the total volume of discharge (3.48 acre-feet [af]) to the total volume of the North Arm of about 3.25 million acre-feet (maf), at an average WSE of 4,192 feet mean sea level during the Demonstration Plant's operation (USGS 2006), as shown in Figure 10 below.

Figure 10. North Arm Volume

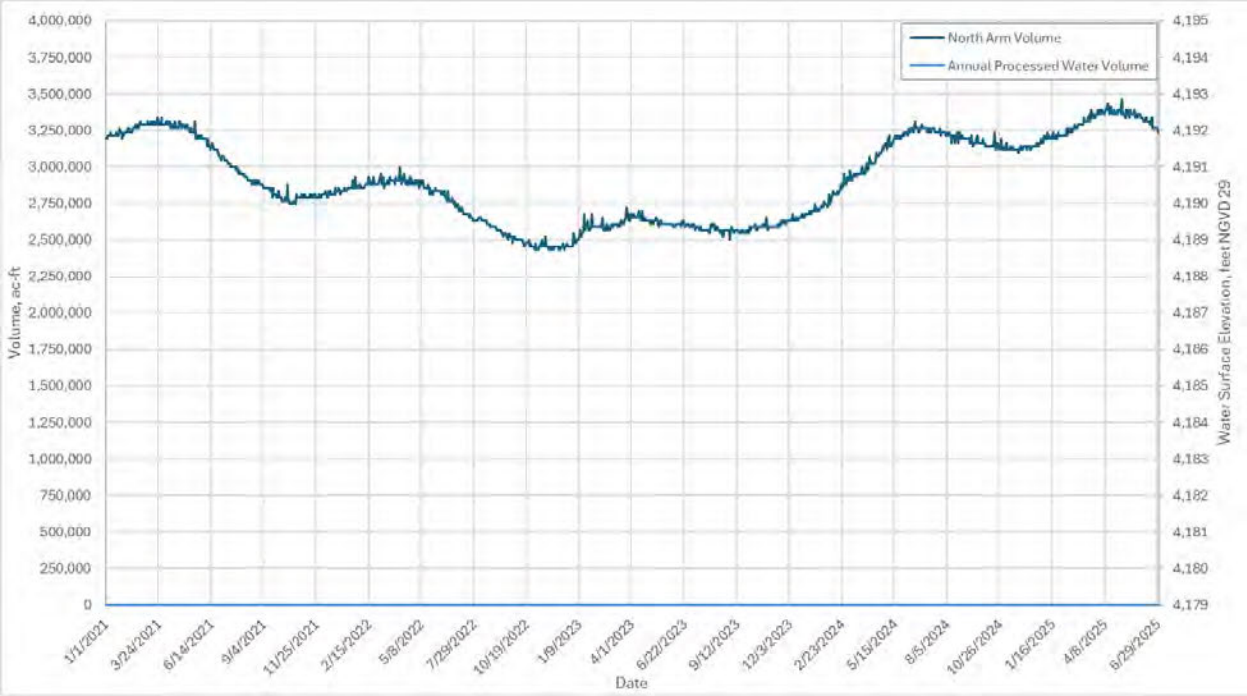


Table 12. Influent and Discharge Density Results

Date	Influent Density	Discharge Density
2/6/25	1.216	1.183
2/13/25	1.181	1.171
2/20/25	No discharge	
2/26/25	1.215	1.171
3/4/25	1.215	1.177
3/13/25	1.213	1.183
3/18/25	1.190	1.189
3/25/25	1.213	1.197
4/2/25	1.213	1.203
4/8/25	1.212	1.204
4/15/25	1.213	1.213
4/22/25	1.213	1.210
5/1/25	1.202	1.201
5/6/25	1.213	1.205
5/12/25	No discharge	
5/20/25	1.212	1.198
5/29/25	1.205	1.206
6/03/25	1.214	1.193
6/12/25	1.188	1.174
6/17/25	1.204	1.205
6/24/25	1.178	1.201
7/1/25	1.210	1.196
7/10/25	1.211	1.204
7/15/25	1.213	1.204
7/22/25	No discharge	
7/29/25	1.204	1.197
8/7/25	1.210	1.203
8/12/25	1.216	1.215

4 Flow Monitoring Results

In accordance with the UPDES permit requirements, continuous influent and discharge flow monitoring results were used to determine average weekly and monthly maximum and average flows. These data were used to calculate average weekly and annual loads. These flow values were used to calculate monthly volumes for the influent and discharge.

Instantaneous flow monitoring results are documented on weekly field data sheets and were used to determine flow-weighted composite sampling.

In addition, groundwater added to the process was recorded.

4.1 Monthly Volume Results

Continuous flow monitoring during the Demonstration Plant's operation recorded a final influent volume of 3.35 af and a final discharge volume of 3.48 af. Monthly average flows and volumes are shown in Table 13.

Table 13. Demonstration Plant Influent and Discharge Flow Volume

Month	Total Volume (af)	
	Influent	Discharge
February 2025	0.306	0.238
March 2025	0.201	0.237
April 2025	0.662	0.694
May 2025	0.427	0.431
June 2025	0.644	0.627
July 2025	0.730	0.781
August 2025	0.385	0.470
Total	**3.355**	**3.477**

Definitions: af = acre-feet

4.2 Total Water Balance

Total water is defined as sum of the brine and externally sourced water (UAC R317-16-2(21)). The Demonstration Plant's total water balance is provided below based on data from the intake and outfall continuous flow meters. The discharge volume includes the flow from the externally sourced groundwater.

- North Arm brine influent volume: 3.355 af
- Externally sourced groundwater: 0.265 af
- Discharge volume to North Arm: 3.477 af

The water balance shows that about 4% of the brine and groundwater flow is not discharged. This residual water was retained in the lithium sulfate product, which is a liquid. The lithium sulfate was shipped off site for further processing into the lithium carbonate equivalent product, which is a powder.

Based on USGS bathymetric and topographic data, the North Arm's volumes at WSEs of 4,190 and 4,198 feet (NVGD 1929) are 2.7 maf and 4.9 maf, respectively (USGS 2006). As of June 25, 2025, the North Arm's WSE was about 4,192.1 feet, and the North Arm had a volume of 3,241,855 af (USGS 2025).

5 Biota Monitoring Results

Three monitoring events were conducted by Dr. Bonnie Baxter of Westminster University during the Demonstration Plant's operation (Baxter 2025). By design, the first monitoring event occurred during the first month of operation, and the second monitoring event occurred 2 months later. The third monitoring event was added during the summer as the algae community began to grow as a result of the warmer brine temperatures. The first monitoring event occurred on February 28, 2025, during week 4 of operation; the second on April 24, 2025, during week 12 of operation; and the third on June 23, 2025, during week 21 of operation. The study design captured seasonal biota presence in the North Arm and the plant's discharge during its operation. This section summarizes the biota monitoring report, which is provided as Appendix C, *Biota Monitoring Report*.

In summary, North Arm biota were present in both the influent and discharge flows collected during all monitoring events, and the abundance and diversity of biota in the samples varied seasonally, as anticipated. The growth rates of biota in the influent, discharge, and mixed samples were similar. The study provides evidence that the Demonstration Plant's DLE process does not harm North Arm biota.

5.1 Presence of Biota

A hemacytometer (which provides a grid and special cover glass to control the distributed volume) was used to estimate the cell density in each of the influent and discharge samples. The results are shown in Table 14. The first samples, from February, demonstrated a robust cell density in the influent sample, but the discharge sample (with observed rust flakes) had few if any visible cells. The April samples had comparable numbers of cells in the discharge as in the influent, and the cells-per-milliliter counts were in the billions. The June samples had more cells in the influent than in the discharge. This decrease is mostly due to the presence of algae (which was not present in February and April) in the influent and reduced numbers in the discharge due to filtration. By comparing influent and discharge samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell count for archaea, bacteria, or fungi; algae reductions, when they occurred, were due to filtration.

Table 14. Biota Cell Counts and Dry Weight

Month	Number of Cells Observed via Hemacytometer (cells per mL)		Dry Weight of Biota (g/L)	
	Influent	Discharge	Influent	Discharge
February 2025	2.8×10^8	None observed[1]	Not analyzed	
April 2025	3.6×10^9	4.6×10^9	3.7	4.5
June 2025	8.1×10^9	5.3×10^9	5.2	4.2

Definitions: g/L = grams per liter; mL = milliliters

1. Although no cells were observed using the hemacytometer, DNA sequencing revealed the presence and abundance of archaea, bacteria, and fungi in the discharge sample.

5.2 Biota Diversity

To document the species of biota that are present in both the influent and discharge flows, a consulting laboratory was contracted for DNA sequencing. The laboratory amplified DNA genes (16S rRNA, 18S rRNA, or ITS) associated with bacteria, archaea, algae, or fungi. The DNA is very specific to communities that might be present in North Arm brine. For the February and April monitoring events, archaea, bacteria, and fungi were present and abundant, but algae was not present. This is to be expected because the colder temperatures of North Arm brine in February and April do not support algae communities. Algae communities were observed in samples from the June monitoring event.

This analysis provides the relative abundance of the specific biota. It is important to note that the abundance is relative to other species in the influent or discharge samples, but no comparison of the influent to the discharge is valid. The abundance of archaea, bacteria, and fungi for the April monitoring event is shown in Figure 11. The abundance of archaea and bacteria (prokaryotes) and algae (eukaryotes) for the June monitoring event is shown in Figure 12.

By comparing influent and discharge (effluent) flow samples, this analysis provides evidence that the Demonstration Plant's DLE process does not reduce biota cell diversity in the North Arm of the GSL for archaea, bacteria, and fungi species. These biota are not affected by the DLE processes, including filtration, due to the small size (1–2 microns) of the individual organisms. When algae species are present during the warm summer months, the number of species is reduced by the filtration process due to the larger size (10–20 microns) of the individual organisms.

Figure 11. April 2025 Biota Abundance Graphs

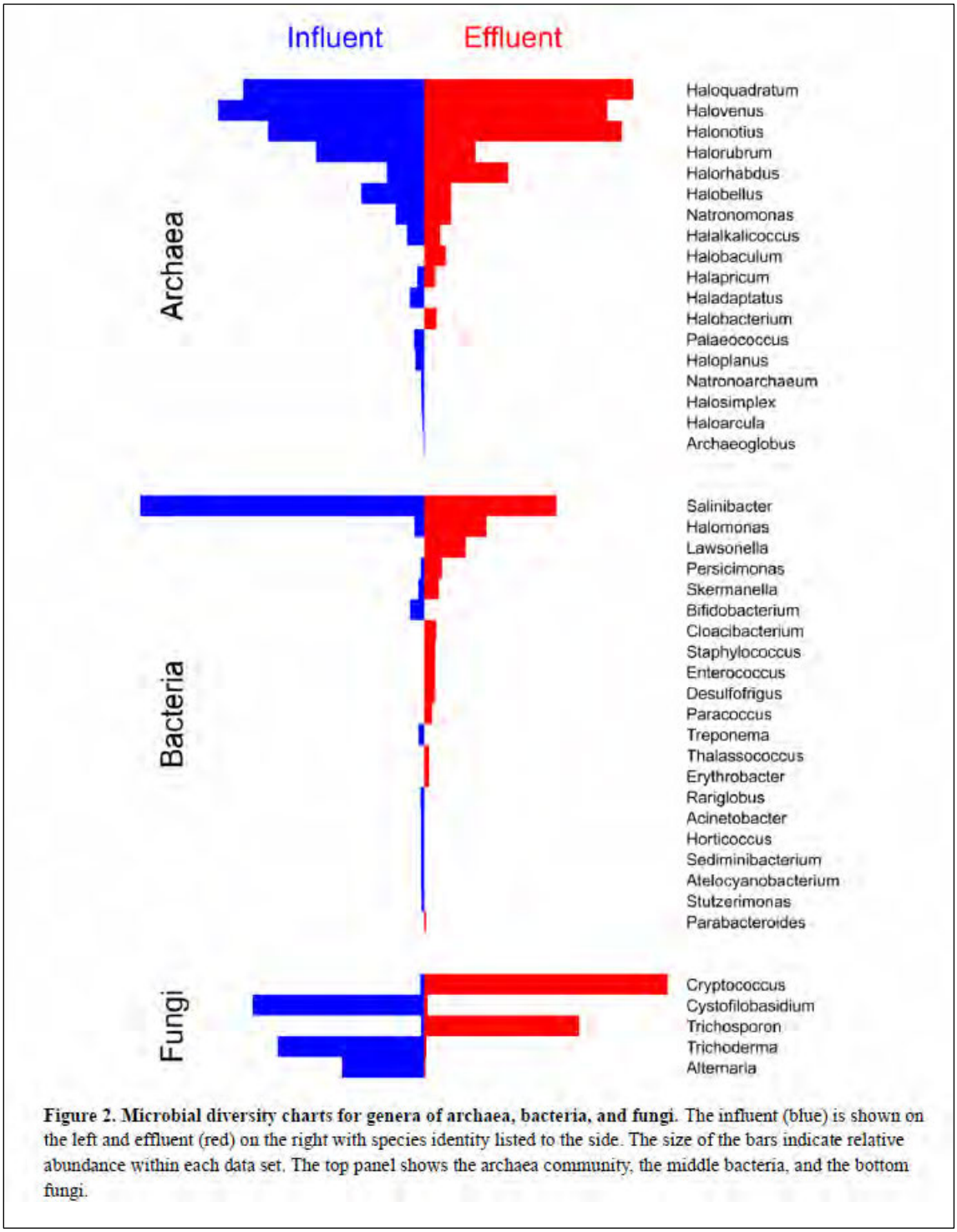


Figure 2. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Figure 12. June 2025 Biota Abundance Graphs

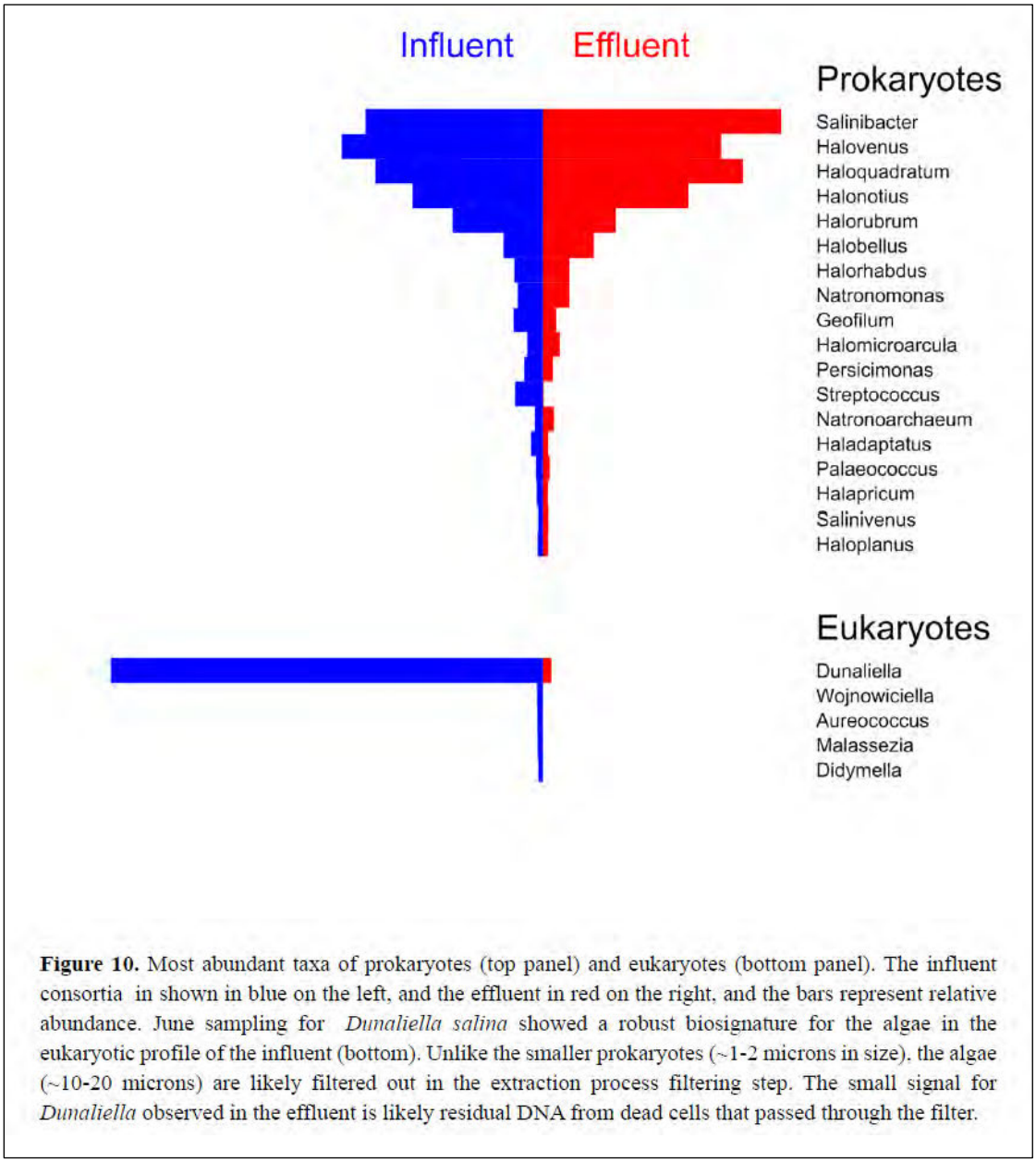


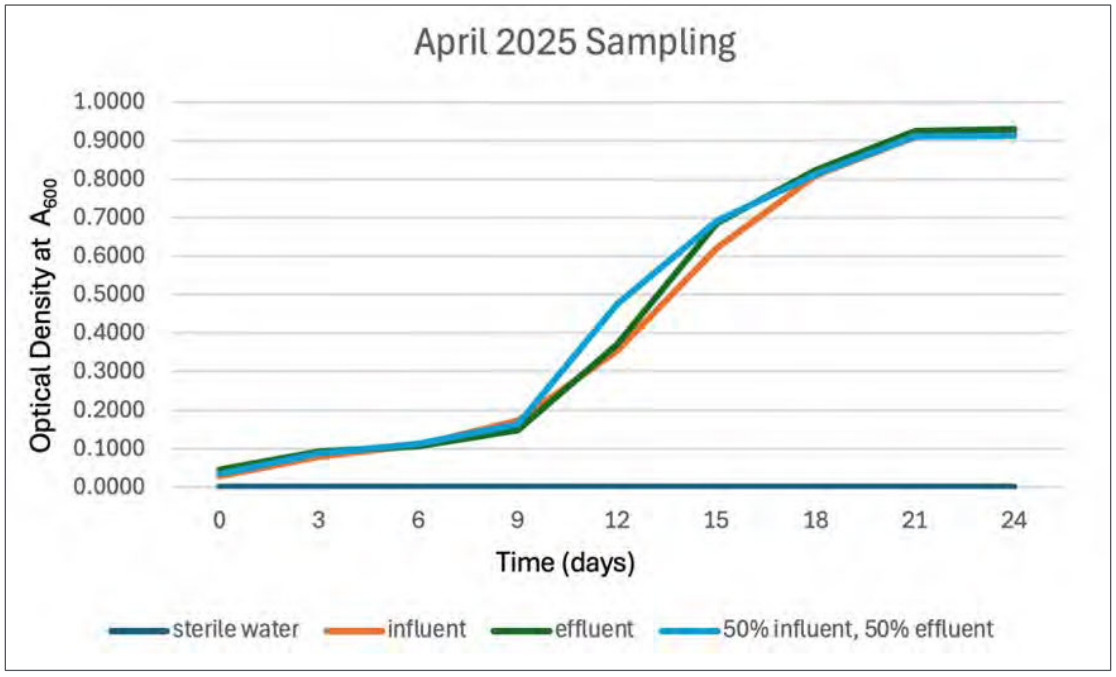
Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

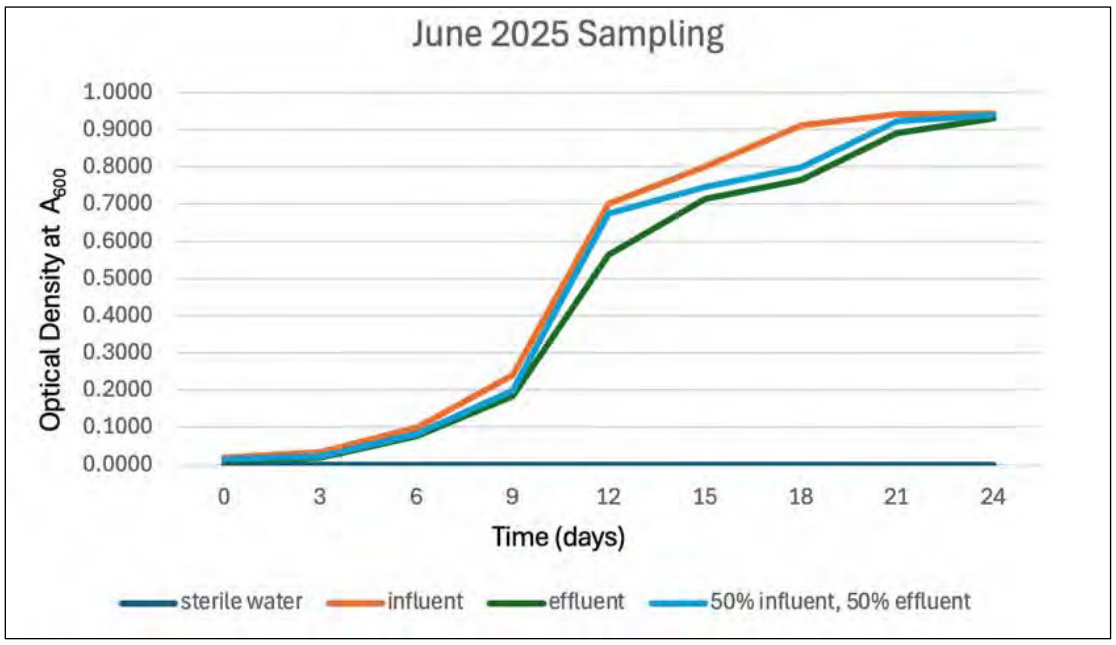
5.3 Biota Growth in Discharge

To understand the effects of discharges into the North Arm on biota growth, a time course growth experiment was conducted on influent, discharge, or a mix of the influent and discharge (representing North Arm brine after discharge). The protocol that was used consisted of inoculating 9 milliliters (mL) of 23% salt modified growth media (Dyall-Smith 2009) with 1 mL of sample. The inoculated samples consisted of (1) sterile deionized water serving as a control, (2) influent flow, (3) discharge (effluent) flow, and (4) a 50:50 mix of influent and discharge, which represents the in-lake mixture of discharge and brine.

Figure 13 shows the growth curves of the samples collected during the April and June monitoring events. All samples follow a standard growth curve. The microbial communities appear to have reached a stationary growth phase over this period of study. This is expected of healthy cultures. Also note that the sample representing the North Arm brine mixed with the discharge flow did not visibly affect growth of the biota. By comparing influent, discharge, and mixture sample results, this analysis provides evidence that the Demonstration Plant's DLE process does not prevent biota cell growth in the North Arm of the GSL.

Figure 13. April and June 2025 Biota Growth Results





6 Evaluation of No Negative Impact on the GSL from Demonstration Plant Operation

Waterleaf evaluated the results of the chemistry and biota analyses to determine whether negative impacts on the North Arm's chemistry and biota occurred during the operation of the Demonstration Plant.

Negative impact is defined by UDWQ R317-16-16 to include the following evaluation criteria:

> Negative impact includes any activity or action that:
>
> - Causes pollution, or negatively alters the salinity or other aspects of water chemistry in Great Salt Lake;
> - Negatively alters the volume or timing of water flows to Great Salt Lake, or water levels in Great Salt Lake or Great Salt Lake wetlands;
> - Reduces, degrades, or otherwise negatively alters habitat in and around Great Salt Lake; or
> - Results in harmful physiological impacts to Great Salt Lake biota, including disruptions to survival, reproduction, or growth.

Waterleaf asserts no negative impacts on the North Arm of the GSL based on the above criteria. These evaluation criteria are discussed below.

6.1 Impacts on North Arm Salinity or Water Quality Chemistry

Waterleaf asserts that there were no negative impacts on North Arm salinity or water quality chemistry from operation of the Demonstration Plant, based on the results, analysis and review provided in Section 3.3, *Chemistry Monitoring Results Discussion and Graphs*. This assertion is based on the following:

- Compliance monitoring met the requirements of the UPDES permit for protecting the beneficial uses of the North Arm of the GSL. No water quality standards were exceeded.
- The incremental decrease in volume discharged (0.142 af; influent and groundwater volume subtracted from discharge volume) compared to the total volume of the North Arm of the GSL (3.24 maf) indicates that the Demonstration Plant's retained volume is *de minimis* and would not impact North Arm salinity or water quality.
- The Demonstration Plant's operation was temporary (7 months).
- The results of the compliance monitoring analysis, comparing average discharge concentrations to average influent concentrations and MDLs, uncertainty and error consideration, association of specific monitoring results due to operational phases, comparison of the mass load to the North Arm from Demonstration Plant operations to existing North Arm mass loads, and results of the biota monitoring study provide evidence that the Demonstration Plant did not harm North Arm water quality.

- Manganese, a component of the DLE process, had higher average discharge concentrations compared to the average influent concentrations. Examination of federal and state standards for lake recreational contact revealed that no standards or guidelines exist. Discharge concentrations are well below federal guidelines for dermal exposure due to showering in drinking water.
- The density of the North Arm discharge did not vary significantly from the density of the influent. This data shows that the density (salinity) of the North Arm was not changed due to the operation of the Demonstration Plant.

6.2 Impacts on North Arm Volume, Flows, or Water Levels

Waterleaf asserts that there were no negative impacts on North Arm volume, flows, or water levels from operation of the Demonstration Plant. This assertion is based on continuous flow monitoring data collected during operation of the Demonstration Plant. The flow monitoring data documented that the influent and discharge flows were comparable during operation. The Demonstration Plant diverted raw brine directly from the open waters of the GSL and discharged depleted brine back to the open waters of the GSL. The processing time from when the raw brine was diverted to when the depleted brine was discharged was less than 8 hours. The Demonstration Plant did not divert any surface water flows for its operation.

The results of the flow monitoring events are summarized in Section 4, *Flow Monitoring Results*.

Based on the Demonstration Plant's flow monitoring and the final water balance, the volume of North Arm raw brine diverted and groundwater added was documented to be discharged back to the North Arm, less water lost to processing the product. The amount of water (about 0.142 af) used to produce the liquid product is considered by Waterleaf to be *de minimis* compared to the 3.24 maf in the North Arm (at a WSE of 4,192 feet). Because no surface waters were diverted, the Demonstration Plant did not alter the timing of water flows to the North Arm of the GSL.

Waterleaf asserts that the Demonstration Plant did not alter the volume or timing of water flows to the GSL or the water levels in the GSL or GSL wetlands.

6.3 Impacts on North Arm Habitat

Waterleaf asserts that there were no negative impacts on North Arm habitat. This assertion is based on evaluating the presence of microbialites that could be present or could grow in and along the open waters of the GSL. Based on the survey conducted on the intake and outfall pipe easements before construction of the Demonstration Plant, no microbialite structures were identified (HDR 2024).

Therefore, Waterleaf asserts that the Demonstration Plant did not reduce, degrade, or otherwise negatively alter habitat in and around the North Arm of the GSL.

6.4 Impacts on North Arm Biota

To evaluate impacts on North Arm biota, Waterleaf contracted with Dr. Bonnie Baxter of Westminster University to conduct biota monitoring during operation of the Demonstration Plant (Baxter 2025). The biota monitoring documented the presence and abundance of biota (archaea, bacteria, algae, and fungi) in the influent to and the discharge from the Demonstration Plant during its operation. The study also investigated whether biota could reproduce and grow in the discharge water from the Demonstration Plant.

The results of the biota analyses are summarized in Section 5, *Biota Monitoring Results*, and the complete report is provided as Appendix C, *Biota Monitoring Report*.

Based on the biota monitoring study and results, North Arm biota were documented to be present and abundant in the raw brine influent and Demonstration Plant discharge water during its operation. Biota were also documented to grow and reproduce in the discharge water from the Demonstration Plant. Therefore, Waterleaf asserts that the Demonstration Plant did not disrupt survival, reproduction, or growth of North Arm biota (archaea, algae, bacteria, and fungi) and did not have a negative impact on the biota of the North Arm of the GSL.

7 References

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2023 Characterization of North Arm, Great Salt Lake. August 9.

2024 Microbialite Preconstruction Survey. July.

2025 Manganese Risk Evaluation Memo.

[UDWQ] Utah Division of Water Quality

2025a Utah Pollutant Discharge Elimination System Permit No. UT0026280. February 4.

2025b Email from L. Shull, UDWQ, to N. Nichols, HDR. September 24.

[UGS] Utah Geological Survey

2020 Standard Operating Procedure – Great Salt Lake Water Density Measurement and Salinity Calculation. Open-File Report 0728. June.

2025 Estimates of Lithium, Magnesium and Potassium Resources in Great Salt Lake Brine. Open-File Report 769.

[USGS] U.S. Geological Survey

2006 Calculation of Area and Volume for the North Part of Great Salt Lake, Utah. December.

2023 Density and Salinity Data to Validate an Equation of State for Hypersaline Water in Great Salt Lake, Utah, 2021–2022. November 13.

2025 Great Salt Lake Hydro Mapper [website]. https://webapps.usgs.gov/gsl/data.html. Accessed June 25, 2025.

[Waterleaf] Waterleaf Resources

2025a Data Quality Objectives Memo. May 9.

2025b Great Salt Lake Lithium Feasibility Project – Final Report. October

APPENDIX A

UPDES Permit

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMITS

Minor Industrial Permit No. **UT0026280**

In compliance with provisions of the Utah *Water Quality Act*, *Title 19*, *Chapter 5*, *Utah Code* (the *"Act"*),

WATERLEAF RESOURCES, LLC (Permittee),

is hereby authorized to discharge from

GREAT SALT LAKE LITHIUM PROJECT (Facility),

to receiving waters named **GUNNISON BAY**, **THE GREAT SALT LAKE,**

in accordance with specific limitations, outfalls, and other conditions set forth herein.

This permit shall become effective on **February 4th, 2025.**

This permit expires at midnight on **February 4th, 2028.**

Signed this **fourth day of February 2025**.

John K. Mackey, P.E.
Director

DWQ-2024-000479

Table of Contents

Outline Page Number

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS 1
A. Description of Discharge Points 1
B. Narrative Standard 1
C. Specific Limitations and Self-Monitoring Requirements 1
D. Reporting of Monitoring Results 4
II. PRETREATMENT REQUIREMENTS 5
III. BIOSOLIDS REQUIREMENTS 8
A. Biosolids Treatment and Disposal 8
IV. STORM WATER REQUIREMENTS 9
V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS 10
A. Representative Sampling 10
B. Monitoring Procedures 10
C. Penalties for Tampering 10
D. Compliance Schedules 10
E. Additional Monitoring by the Permittee 10
F. Records Contents 10
G. Retention of Records 10
H. Twenty-four Hour Notice of Noncompliance Reporting 10
I. Other Noncompliance Reporting 11
J. Inspection and Entry 12
VI. COMPLIANCE RESPONSIBILITIES 13
A. Duty to Comply 13
B. Penalties for Violations of Permit Conditions 13
C. Need to Halt or Reduce Activity not a Defense 13
D. Duty to Mitigate 13
E. Proper Operation and Maintenance 13
F. Removed Substances 13
G. Bypass of Treatment Facilities 13
H. Upset Conditions 15
I. Toxic Pollutants 15
J. Changes in Discharge of Toxic Substances 15
VII. GENERAL REQUIREMENTS 17
A. Planned Changes 17
B. Anticipated Noncompliance 17
C. Permit Actions 17
D. Duty to Reapply 17
E. Duty to Provide Information 17
F. Other Information 17
G. Signatory Requirements 17
H. Penalties for Falsification of Reports 19
I. Availability of Reports 19
J. Oil and Hazardous Substance Liability 19
K. Property Rights 19
L. Severability 19
M. Transfers 19
N. State or Federal Laws 19
O. Water Quality - Reopener Provision 20
P. Biosolids – Reopener Provision ..... **Error! Bookmark not defined.**
Q. Toxicity Limitation - Reopener Provision 20

VIII. DEFINITIONS 21
A. Wastewater 21

I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS

A. Description of Discharge Points. The authorization to discharge wastewater provided under this part is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit are violations of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

Outfall Number	Location of Discharge Outfall
001	Discharge to Gunnison Bay, Great Salt Lake. Located at latitude 41° 26' 44.16" and longitude 112° 41' 36.04".

B. Narrative Standard. It shall be a violation of this permit, for Permittee to discharge effluent or place any waste, pollutant, or other substance into Waters of the State in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum, or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life, objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by a bioassay or other tests performed in accordance with standard procedures.

C. Specific Limitations and Self-Monitoring Requirements.

1. Effective immediately, and lasting through the life of this permit, there shall be no acute or chronic toxicity in Outfall 001 as defined in *Part VIII*.

2. Discharge Limitations and Reporting Requirements:

   a. The limitations specified in this section shall be applied on a net basis, unless otherwise noted, if the source of the applicant's water supply is the same body of water into which the discharge is made. With the exception of calcium, there shall be no discharge of process wastewater pollutants into navigable waters. See Fact Sheet Statement of Basis for more information.
   b. Permittee must notify the Division of Water Quality (DWQ) fourteen (14) days prior to discharge. From the date the Permittee begins discharge, Permittee will be authorized to discharge from Outfall 001 for twelve (12) consecutive months only.
   c. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Effluent Limitations *a				
	Maximum Weekly Avg	Annual Load	Weekly Load	Daily Minimum	Daily Maximum
Total Flow *b, *c, *d Demonstration Plant	0.06	--	--	--	0.12
Temperature *d	Report	--	--	--	Report
pH, Standard Units	--	--	--	6.5	9
Oil & Grease	--	--	--	--	10.0
Total Alkalinity, *d	Report	--	--	--	Report
Total Dissolved Solids *d	Report	--	--	--	Report
Total Suspended Solids *d	Report	--	--	--	Report

Sulfate *d	Report	--	--	--	Report
Nitrate *d	Report	--	--	--	Report
Nitrite *d	Report	--	--	--	Report
Carbonate *d	Report	--	--	--	Report
Hydroxide *d	Report	--	--	--	Report
Chemical Oxygen Demand *d	Report	--	--	--	Report
Biological Oxygen Demand *d	Report	--	--	--	Report
Silica *d	Report	--	--	--	Report
Sodium *d	Report	--	--	--	Report
Calcium *d *e	Report	--	--	--	Report
Potassium *d	Report	--	--	--	Report
Boron *d	Report	--	--	--	Report
Bromine *d	Report	--	--	--	Report
Silicon *d	Report	--	--	--	Report
Total Lithium *d	Report	--	--	--	Report
Total Arsenic *d, *f	--	*g	*h	--	--
Total Cadmium *d, *f	--	*g	*h	--	--
Total Chromium *d, *f	--	*g	*h	--	--
Total Copper *d, *f	--	*g	*h	--	--
Total Lead *d, *f	--	*g	*h	--	--
Total Molybdenum *d, *f	--	*g	*h	--	--
Total Nickel *d, *f	--	*g	*h	--	--
Total Selenium *d, *f	--	*g	*h	--	--
Total Silver *d, *f	--	*g	*h	--	--
Total Zinc *d, *f	--	*g	*h	--	--
Total Cyanide *d, *f	--	*g	*h	--	--
Total Mercury *d, *f	--	*g	*h	--	--

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c, *d	Continuous	Recorder	MGD
pH	Weekly	Instantaneous	SU
DO	Weekly	Instantaneous	mg/L
Temperature *d	Weekly	Instantaneous	mg/L
Oil & Grease *i	Weekly	Grab	mg/L
Total Alkalinity, *d	Weekly	Composite	mg/L
Total Dissolved Solids *d	Weekly	Composite	mg/L
Total Suspended Solids *d	Weekly	Composite	mg/L
Sulfate *d	Weekly	Composite	mg/L
Nitrate *d	Weekly	Composite	mg/L
Nitrite *d	Weekly	Composite	mg/L
Carbonate *d	Weekly	Composite	mg/L
Hydroxide *d	Weekly	Composite	mg/L
Chemical Oxygen Demand *d	Weekly	Composite	mg/L
Biological Oxygen Demand *d	Weekly	Composite	mg/L
Silica *d	Weekly	Composite	mg/L
Sodium *d	Weekly	Composite	mg/L
Calcium *d, *e	Weekly	Composite	mg/L
Potassium *d	Weekly	Composite	mg/L
Boron *d	Weekly	Composite	mg/L

Bromine *d	Weekly	Composite	mg/L
Silicon *d	Weekly	Composite	mg/L
Total Lithium *d	Weekly	Composite	mg/L
Total Arsenic	Weekly	Composite	mg/L, kg/day
Total Cadmium	Weekly	Composite	mg/L, kg/day
Total Chromium	Weekly	Composite	mg/L, kg/day
Total Copper	Weekly	Composite	mg/L, kg/day
Total Lead	Weekly	Composite	mg/L, kg/day
Total Molybdenum	Weekly	Composite	mg/L, kg/day
Total Nickel	Weekly	Composite	mg/L, kg/day
Total Selenium	Weekly	Composite	mg/L, kg/day
Total Silver	Weekly	Composite	mg/L, kg/day
Total Zinc	Weekly	Composite	mg/L, kg/day
Total Cyanide	Weekly	Composite	mg/L, kg/day
Total Arsenic	Yearly	Composite	kg/year
Total Cadmium	Yearly	Composite	kg/year
Total Chromium	Yearly	Composite	kg/year
Total Copper	Yearly	Composite	kg/year
Total Lead	Yearly	Composite	kg/year
Total Molybdenum	Yearly	Composite	kg/year
Total Nickel	Yearly	Composite	kg/year
Total Selenium	Yearly	Composite	kg/year
Total Silver	Yearly	Composite	kg/year
Total Zinc	Yearly	Composite	kg/year
Total Cyanide	Yearly	Composite	kg/year

*a See Definitions, *Part VIII*, for definition of terms.
*b Flow measurements of influent/effluent volume shall be made in such a manner that Permittee can affirmatively demonstrate that representative values are being obtained.
*c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.
*d In addition to monitoring the final discharge, influent samples shall be taken and analyzed for this constituent at the same frequency as required for this constituent in the discharge.
*e Discharge of calcium is allowed as a process wastewater pollutant. See Fact Sheet Statement of Basis for more information.
*f The minimum detection limit (MDL) of the test method used for analysis must be below this limit in mg/L. If a test method is not available, Permittee must submit documentation to the Director regarding the method that will be used. Total Arsenic 0.180 mg/L, Total Cadmium 0.0052 mg/L, Total Chromium 0.0166 mg/L, Total Copper 0.067 mg/L, Total Lead 0.0465 mg/L, Total Molybdenum NA, Total Nickel 0.376 mg/L, Total Selenium 0.0079 mg/L, Total Silver 0.0899 mg/L, Total Zinc 0.675 mg/L, Total Cyanide 0.0093 mg/L, Total Mercury 0.000022 mg/L.
*g The average annual load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/year.
*h The average weekly load for this parameter in the final discharge shall not exceed +10% of the load in the intake water as reported in kg/day.
*i Oil & Grease sampled when sheen is present or visible. If no sheen is present or visible, report NA.

d. As authorized in Part VII.E.:
   (1) Permittee shall establish laboratory quality performance for the Great Salt Lake North Arm matrix as soon as possible, and present and review the laboratory quality performance with the Director.
      (a) Based on the laboratory quality performance, Permittee shall work with the Director to define suitable data quality objectives for the Demonstration Plant, that evidence protection of Great Salt Lake

chemistry and biota. Following the work with the Director, Permittee shall formalize the recommended data quality objectives, in writing, and submit to the Director prior to completion of testing at the Demonstration Plant.

(2) Permittee shall submit a Level IV data quality package with each compliance sample.

(3) Permittee shall coordinate with DWQ on the collection and delivery of a split sample for each compliance sample taken. Permittee shall handle and deliver split samples using proper chain of custody procedures as described in 40 C.F.R. § 136.

D. Reporting of Monitoring Results.

1. Reporting of Wastewater Monitoring Results Monitoring results obtained by the Permittee during the previous month shall be summarized for each month and reported to DWQ on a Discharge Monitoring Report Form (EPA No. 3320-1)* or by NetDMR, post-marked or entered into NetDMR no later than 28 days after the last day of the reporting period. The first report is due on **March 28, 2025**. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports including whole effluent toxicity (WET) test reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part VII.G*), and submitted by NetDMR, or to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
PO Box 144870
Salt Lake City, Utah 84114-4870

* Starting January 1, 2017 monitoring results must be submitted using NetDMR unless Permittee has successfully petitioned for an exception.

II. PRETREATMENT REQUIREMENTS

A. Definitions. For this section, the following definitions shall apply:

1. *Indirect Discharge* means the introduction of pollutants into a publicly-owned treatment works (POTW) from any non-domestic source regulated under section 307 (b), (c) or (d) of the CWA.

2. *Interference* means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

   a. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and

   b. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

3. *Pass Through means* a Discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

4. *Publicly Owned Treatment Works* or *POTW* means a treatment works, as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the CWA). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality, as defined in section 502(4) of the CWA, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

5. *Significant Industrial User (SIU)* is defined as an Industrial User discharging to a POTW that satisfies any of the following:

   a. Has a process wastewater flow of 25,000 gallons or more per average work day;

   b. Has a flow greater than five percent of the flow carried by the municipal system receiving the waste;

   c. Is subject to Categorical Pretreatment Standards, or

   d. Has a reasonable potential for adversely affecting the operation of the POTW or violating any pretreatment standard or requirement.

6. *User or Industrial User (IU)* means a source of Indirect Discharge.

B. Discharge to POTW. Any wastewaters discharged to a Publicly Owned Treatment Works (POTW), either as an Indirect Discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of The Water Quality Act of 1987, Permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at 40 CFR 403, the State Pretreatment Requirements at Utah Administrative Code (UAC) R317-8-8, and any specific local discharge limitations developed by the POTW accepting the wastewaters. At a minimum, the discharge into a POTW must meet the requirements of Part II. C., D. and E. of the permit.

C. Hazardous Waste Notification. Permittee must notify the POTW, the EPA Regional Waste Management Director, the Director and the State hazardous waste authorities in writing if they discharge any substance into a POTW that, if otherwise disposed of, would be considered a hazardous waste under 40 CFR 261. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

D. General and Specific Prohibitions.

1. General Prohibitions. Permittee may not introduce into a POTW any pollutant(s) which cause Pass Through or Interference. These general prohibitions and the specific prohibitions in II. D. 2. of this section apply to the introducing pollutants into a POTW whether or not Permittee is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

2. Specific Prohibitions. The following pollutants shall not be introduced into a POTW:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140˚F (60˚C);

   b. Pollutants, which will cause corrosive structural damage to the POTW, but in no case, discharges with a pH lower than 5.0;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;

   d. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at such volume or strength as to cause Interference in the POTW;

   e. Heat in amounts, which will inhibit biological activity in the POTW, resulting in Interference, but in no case, heat in such quantities that the influent to the sewage treatment works exceeds 104˚F (40˚C));

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants, which result in the presence of toxic gases, vapor, or fumes within the POTW in a quantity that may cause worker health or safety problems;

   h. Any trucked or hauled pollutants, except at discharge points designated by the POTW; or

   i. Any pollutant that causes Pass Through or Interference at the POTW.

j. Any specific pollutant which exceeds any Local Limitation established by the POTW.

E. Categorical Standards. In addition to the general and specific limitations expressed in *Part II. D.* of this section, applicable National Categorical Pretreatment Standards must be met by all Industrial Users discharging into a POTW. These standards are published in the federal regulations at *40 CFR 405 through 471*.

III. BIOSOLIDS REQUIREMENTS

A. Biosolids Treatment and Disposal. UAC R317-8-1.10 regulates the disposal of sewage sludge (biosolids), which incorporates the federal standards found in 40 CFR Part 503 by reference. However, this is an industrial facility that does not regularly produce regulated biosolids. Therefore, R317-8-1.10 does not apply at this time.

B. Biosolids – Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate biosolids limitations (and compliance schedule, if necessary), management practices, other appropriate requirements to protect public health and the environment, or if there have been substantial changes (or such changes are planned) in biosolids use or disposal practices; applicable management practices or numerical limitations for pollutants in biosolids have been promulgated which are more stringent than the requirements in this permit; and/or it has been determined that Permittee's biosolids use or land application practices do not comply with existing applicable state of federal regulations.

IV. STORM WATER REQUIREMENTS.

A. Industrial Storm Water Permit. Based on the type of industrial activities occurring at the Permitted Facility, Permittee is required to maintain separate coverage or an appropriate exclusion under the Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activities (UTR000000). If the Permitted Facility is not already covered, Permittee has thirty (30) days from when this permit is issued to submit the appropriate Notice of Intent (NOI) for the MSGP or exclusion documentation.

B. Construction Storm Water Permit. Any construction at the Permitted Facility that disturbs an acre or more of land, including less than an acre if it is part of a common plan of development or sale, is required to obtain coverage under the UPDES Construction General Storm Water Permit (UTRC00000). Permittee must obtain permit coverage prior to land disturbance. If the site qualifies, the Permittee may submit a Low Erosivity Waiver (LEW) Certification instead of permit coverage.

V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS

A. Representative Sampling. Permittee shall collect samples in compliance with the monitoring requirements established under *Part I* from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Samples of biosolids shall be collected at a location representative of the quality of biosolids immediately prior to the use-disposal practice.

B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under UAC R317-2-10, UAC R317-8-4.1(10)(d), and/or 40 CFR § 503 utilizing sufficiently sensitive test methods unless other test procedures have been specified in this permit. Monitoring must be conducted according to the test procedures listed above unless another method is required under 40 CFR Chapter I subchapters N or O. Sufficiently sensitive test method means: (1) The method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or (2) The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O for the measured pollutant or pollutant parameter as per 40 CFR 122.44(i)(1)(iv)(A).

C. Penalties for Tampering. Utah Code § 19-5-115(4) of the Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per day of violation, or by imprisonment for not more than six (6) months per violation, or by both.

D. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

E. Additional Monitoring by the Permittee. If Permittee monitors any parameter more frequently than required by this permit, using test procedures approved under Permit Part V.B., the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or the Biosolids Report Form.

F. Records Contents. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements:
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

G. Retention of Records. Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location

H. Twenty-four (24) Hour Notice of Noncompliance Reporting.

1. In accordance with UAC R317-8-4, Permittee shall (orally) report any noncompliance which may endanger health or the environment, including transportation accidents, spills, and uncontrolled runoff from biosolids transfer or land application sites which may seriously endanger health or environment, as soon as possible, but no later than twenty-four (24) hours from the time Permittee first became aware of circumstances. The report shall be made to the DWQ via the 24-hour answering service (801) 536-4123.

2. The following occurrences of noncompliance shall initially be reported by telephone to the DWQ via the 24-hour answering service as soon as possible but no later than twenty-four (24) hours from the time Permittee becomes aware of the circumstances:

   a. Any noncompliance which may endanger health or the environment;

   b. Any unanticipated bypass, which exceeds any effluent limitation in the permit (See *Part VI.G, Bypass of Treatment Facilities.)*;

   c. Any Upset which exceeds any effluent limitation in the permit (See *Part VI.H, Upset Conditions*.);

   d. Violation of a daily discharge limitation for any of the pollutants listed in the permit. For other permit violations which will not endanger health or the environment, DWQ may otherwise be notified during business hours (801) 536-4300; or,

   e. Violation of any of the Table 3 metals limits, the pathogen limits, the vector attraction reduction limits or the management practices for biosolids that have been sold or given away.

3. A written submission shall also be provided within five (5) days of the time that Permittee becomes aware of the circumstances. The written submission shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times;

   c. The estimated time noncompliance is expected to continue if it has not been corrected;

   d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and,

   e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.

4. The Director may waive the written report on a case-by-case basis if the oral report has been received within twenty-four (24) hours by the Division of Water Quality, (801) 536-4300.

5. Reports shall be submitted to the addresses in *Part I.D, Reporting of Monitoring Results*.

I. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within twenty-four (24) hours shall be reported at the time that monitoring reports for *Part I.D* are submitted. The reports shall contain the information listed in *Part V.H.3.*

J. Inspection and Entry Permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director) upon the presentation of agency credentials and other documents as may be required by law, to:

1. Enter upon Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, including but not limited to, biosolids treatment, collection, storage facilities or area, transport vehicles and containers, and land application sites;

4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location, including, but not limited to, digested biosolids before dewatering, dewatered biosolids, biosolids transfer or staging areas, any ground or surface waters at the land application sites or biosolids, soils, or vegetation on the land application sites; and,

5. The Permittee shall obtain permission or clearance from the landowner or leaseholder, if the landowner is someone other than the Permittee, to permit the Director, or authorized representative, to access the permitted facilities and activities for entry and inspection. The Permittee shall make necessary arrangements with any legally interested parties so as to permit the Director, or authorized representative, to enter and inspect without delay.

VI. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply. Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of *the Act* and is grounds for administrative and civil enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Permittee shall give sufficient advance notice to the Director of any planned changes in the Permitted Facility or activity, which may result in noncompliance with permit requirements so as to provide the Director with adequate time to review the changes and potentially appropriate remedies.

B. Penalties for Violations of Permit Conditions. Utah Code § 19-5-115 of the *Act* provides that any person who violates a permit condition, rule, or order implementing provisions of the *Act* is subject to a civil penalty not to exceed $10,000 per day of such violation. Except as provided at *Part VI.G, Bypass of Treatment Facilities* and *Part VI.H, Upset Conditions*, nothing in this permit shall be construed to relieve Permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate. Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment. Permittee shall also take all reasonable steps to minimize or prevent any land application in violation of this permit.

E. Proper Operation and Maintenance. Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Removed Substances. Collected screening, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.

G. Bypass of Treatment Facilities.

1. Bypass Not Exceeding Limitations. Permittee may allow any bypass to occur which does not cause Permittee to exceed its permitted effluent limitations, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to paragraph 2 and 3 of this section.

2. Prohibition of Bypass.

a. In accordance with Utah Admin. Code R317-8-4.1, bypass is prohibited, and the Director may take enforcement action against Permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of human life, personal injury, or Severe Property Damage;

(2) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance, and

(3) Permittee submitted notices as required under *Part VI.G.3*.

b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in *Parts VI.G.2.a (1), (2) and (3).*

3. Notice.

a. *Anticipated bypass*. Except as provided above in *Part VI.G.2* and below in *Part VI.G.3.b,* if Permittee knows in advance of the need for a bypass, it shall submit prior notice, at least ninety (90) days before the date of bypass. The prior notice shall include the following unless otherwise waived by the Director:

(1) Evaluation of alternative to bypass, including cost-benefit analysis containing an assessment of anticipated resource damages:

(2) A specific bypass plan describing the work to be performed including scheduled dates and times. Permittee must notify the Director in advance of any changes to the bypass schedule;

(3) Description of specific measures to be taken to minimize environmental and public health impacts;

(4) A notification plan sufficient to alert all downstream users, the public and others reasonably expected to be impacted by the bypass;

(5) A water quality assessment plan to include sufficient monitoring of the receiving water before, during and following the bypass to enable evaluation of public health risks and environmental impacts; and,

(6) Any additional information requested by the Director.

b. *Emergency Bypass*. Where ninety (90) days advance notice is not possible, Permittee must notify the Director, and the director of the Department of Natural Resources, as soon as it becomes aware of the need to bypass and provide to the Director the information in *Part VI.G.3.a.(1) through (6)* to the extent practicable.

c. *Unanticipated bypass*. Permittee shall submit notice of an unanticipated bypass to the Director as required under *Part IV.H*, Twenty-Four Hour Reporting. Permittee shall also immediately notify the director of the Department of Natural Resources,

the public and downstream users through means reasonably calculated to provide adequate advance notice of the unanticipated bypass and shall implement measures to minimize impacts to public health, safety, and environment to the extent practicable.

H. Upset Conditions.

1. Effect of an Upset. An Upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of paragraph 2 of this section are met. Director's administrative determination regarding a claim of Upset cannot be judiciously challenged by Permittee until such time as an action is initiated for noncompliance.

2. Conditions necessary for a demonstration of Upset. A permittee who wishes to establish the affirmative defense of Upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An Upset occurred and that the permittee can identify the cause(s) of the Upset;

   b. The permitted Facility was at the time being properly operated;

   c. The permittee submitted notice of the Upset as required under *Part V.H, Twenty-four Hour Notice of Noncompliance Reporting*; and,

   d. The permittee complied with any remedial measures required under *Part VI.D, Duty to Mitigate.*

3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an Upset has the burden of proof.

I. Toxic Pollutants. Permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. § 1317,)(Section 307(a), *The Water Quality Act of 1987)* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

J. Changes in Discharge of Toxic Substances. Permittee shall provide notice to the Director as soon as Permittee knows of, or has reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. One hundred micrograms per liter (100 ug/L);

   b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,

d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. Five hundred micrograms per liter (500 ug/L);

   b. One milligram per liter (1 mg/L) for antimony:

   c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,

   d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

VII. GENERAL REQUIREMENTS

A. Planned Changes. Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the Permitted Facility. Notice is required only when:

1. The alteration or addition to a Permitted Facility may meet one of the criteria for determining whether a facility is a new source in 122.29(b); or

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit nor to notification requirements under Utah Admin. Code R317-8-4.1(15).

3. The alteration or addition results in a significant change in Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. Permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.

B. Anticipated Noncompliance. Permittee shall give advance notice to the Director of any planned changes to the Permitted Facility or activity, which may result in noncompliance with permit requirements.

C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply. If Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, Permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information. Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

F. Other Information. When Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.

G. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.

1. All permit applications shall be signed by either a principal executive officer, ranking elected official or duly authorized representative of the signatory. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described above and submitted to the Director, and,

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the Permitted Facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

(1) For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
   (a) A president, secretary, treasurer, vice-president or officer of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
   (b) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the Permitted Facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship. By a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
   (a) The chief executive officer of the agency, or
   (b) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person.

3. Changes to authorization. If an authorization under *Part VII.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the Permitted Facility, a new authorization satisfying the requirements of *Part VII.G.2.* must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant administrative, criminal and civil penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. Penalties for Falsification of Reports. Section 19-5-115(4) of the he *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than $10,000.00 per day of violation, or by imprisonment for not more than six months per violation, or by both.

I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.

J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude Permittee of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties to which Permittee is or may be subject under the *Act*.

K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers. This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;

2. The notice includes a written agreement between the existing and new permittee's containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,

3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph *2* above.

N. State or Federal Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by

Sections 19-5-117 and 510 of the Clean Water Act or any applicable Federal or State transportation regulations, such as but not limited to the Department of Transportation regulations.

O. Water Quality - Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:

1. Water Quality Standards for the receiving water(s) to which Permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.

2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.

3. Revisions to the current CWA § 208 areawide treatment management plans or promulgations/revisions to TMDLs (40 CFR 130.7) approved by the EPA and adopted by DWQ which calls for different effluent limitations than contained in this permit.

P. Toxicity Limitation - Reopener Provision. Use the following paragraph if WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include, whole effluent toxicity (WET) limitations, a compliance date, a compliance schedule, a change in the whole effluent toxicity (biomonitoring) protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants if one or more of the following events occur;

1. Toxicity is detected, as per *Part I.C.4.a/b* of this permit, during the duration of this permit.

2. The TRE results indicate that the toxicant(s) represent pollutant(s) or pollutant parameter(s) that may be controlled with specific numerical limits, and the Director concludes that numerical controls are appropriate.

3. Following the implementation of numerical control(s) of toxicant(s), the Director agrees that a modified biomonitoring protocol is necessary to compensate for those toxicants that are controlled numerically.

4. The TRE reveals other unique conditions or characteristics, which in the opinion of the permit issuing authority justify the incorporation of unanticipated special conditions in the permit.

Use the following paragraph if there is no WET testing is required at the Permitted Facility:

This permit may be reopened and modified (following proper administrative procedures) to include WET testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.

VIII. DEFINITIONS

A. Wastewater.

1. The “7-day (and weekly) average”, other than for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains Saturday.

2. The "30-day (and monthly) average," other than for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.

3. "Average annual discharge limit" means maximum allowable average of monthly discharges over a calendar year, calculated as the sum of all monthly discharges measured during a calendar year divided by the number of monthly discharges measured during the year. The timeframe is defined as from January 1st to December 31st.

4. “Act,” means the *Utah Water Quality Act*.

5. “Acute toxicity” occurs when 50 percent or more mortality is observed for either test species at any effluent concentration (lethal concentration or “LC_{50}”).

6. “Bypass,” means the diversion of waste streams from any portion of a treatment facility.

7. “Chronic toxicity” occurs when the IC_{25}< XX% effluent. The XX% effluent is the concentration of the effluent in the receiving water, at the end of the mixing zone expressed as per cent effluent.

8. "IC_{25}" is the concentration of toxicant (given in % effluent) that would cause a 25% reduction in mean young per female, or a 25% reduction in overall growth for the test population.

9. “Composite Samples” shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:

a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;

b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;

c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,

d. Continuous sample volume, with sample collection rate proportional to flow rate.

10. "CWA" means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.

11. "Daily Maximum" (Daily Max.) is the maximum value allowable in any single sample or instantaneous measurement.

12. "EPA," means the United States Environmental Protection Agency.

13. "Director," means Director of the Division of Water Quality.

14. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

15. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.

16. "Severe Property Damage," means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

17. "Upset," means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

APPENDIX B

Laboratory Data Results

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	MDL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25B0543-01	Water	Water	02/06/2025 09:58:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25B0543-02	Water	Water	02/06/2025 10:02:00	02/11/2025 10:40:00	02/12/2025 11:50:00	BZB0473	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:07:01	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	50.6	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.172	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	289	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	55.1	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	13300	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8600	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.4	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:03:00	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.62	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:06:52	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.092	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0754	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:37:52	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0412	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.127	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.29	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.298	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 14:59:36	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 15:53:00	02/07/2025 15:53:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	190000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:23:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	17800	247	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 18:24:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	165	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:10:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4750	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 19:13:47	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	565	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:22:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	55400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	378	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:16:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B0543-03	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:26:10	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	10	2	5		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/11/2025 12:03:00	02/11/2025 13:24:59	BZB0401	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	103	44.9	100		ng/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	ND	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	46.7	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.142	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	276	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	1.1	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	45.4	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7670	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	BZB0461	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	5.3	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 12:23:06	BZB0461	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	67600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.429	0.009	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 12:00:00	02/12/2025 14:09:24	BZB0507	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	25					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.104	0.012	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.13	0.036	0.05		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:39:10	BZB0331	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.224	0.032	0.035		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.112	0.008	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.279	0.022	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.268	0.028	0.03		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.017	0.025		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 09:56:00	02/10/2025 15:00:56	BZB0331	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.09	0.5		mg/L	FALSE	NA	50					TM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:08:00	02/07/2025 16:08:00	BZB0306	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:15:00	02/07/2025 16:38:00	BZB0306	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14900	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:54:00	02/10/2025 21:00:00	BZB0350	Bromide (IC)	EPA 300.1	NO PREP	Bromide	144	2.3	5		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 11:44:00	02/10/2025 16:14:00	BZB0348	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/10/2025 12:28:00	02/10/2025 17:44:20	BZB0357	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	4050	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 10:41:00	02/07/2025 20:13:22	BZB0308	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	438	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 10:43:00	02/12/2025 13:25:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	50800	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 16:05:00	02/07/2025 16:15:00	BZB0320	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	278000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/12/2025 14:12:00	02/12/2025 14:30:00	BZB0501	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	404	3	4		mg/L	FALSE	NA	1					DRO																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:20:00	02/07/2025 16:20:00	BZB0307	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B0543-04	Water	Water	02/06/2025 16:15:00	02/07/2025 14:59:00	02/12/2025 12:28:34	BZB0314	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	6	2	5		mg/L	FALSE	NA	1					DRO																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25B1120-01	Water	Water	02/13/2025 16:10:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25B1120-02	Water	Water	02/13/2025 16:30:00	02/19/2025 11:11:00	02/20/2025 13:45:00	BZB0747	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 09:22:00	02/18/2025 12:01:30	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.7	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.9	0.61	1.25		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.278	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	313	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.2	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 10:48:52	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82600	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.462	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 15:41:50	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0276	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.0313	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.0408	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.136	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.032	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.106	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:27:00	02/14/2025 14:09:13	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	185000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 13:02:00	02/14/2025 23:39:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	10200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/22/2025 00:28:00	02/22/2025 00:28:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:49:00	02/21/2025 15:42:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	7020	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:17:00	02/14/2025 16:18:52	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	597	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/21/2025 10:33:00	02/21/2025 11:13:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59400	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	530	3	4		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 12:10:00	02/14/2025 17:09:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1120-03	Water	Water	02/13/2025 16:10:00	02/14/2025 14:05:00	02/19/2025 13:33:23	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 09:22:00	02/18/2025 12:19:27	BZB0667	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	109	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	3.1	1.2	1.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:07:35	BZB0877	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	47.5	1.21	2.5		mg/L	FALSE	NA	50					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.322	0.057	0.125		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	275	0.7	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	16.4	0.57	0.75		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	54.8	0.403	0.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	11700	2.4	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	6990	8.6	12.5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	BZB0877	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	25					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 10:59:16	BZB0877	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	71000	343	500		mg/L	FALSE	NA	500					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	7440-38-2	FALSE	FALSE	0.298	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 15:43:09	BZB0640	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	7440-47-3	FALSE	FALSE	0.0328	0.006	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	7440-50-8	FALSE	FALSE	0.136	0.018	0.025		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	7439-96-5	FALSE	FALSE	0.91	0.016	0.018		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	7440-02-0	FALSE	FALSE	0.0416	0.011	0.013		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	7782-49-2	FALSE	FALSE	0.0992	0.014	0.015		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:27:00	02/14/2025 14:13:06	BZB0640	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	25					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	144000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 13:02:00	02/15/2025 00:38:00	BZB0636	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	13100	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/22/2025 01:40:00	02/22/2025 01:40:00	BZB0836	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:49:00	02/21/2025 15:47:00	BZB0880	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/18/2025 10:37:00	02/19/2025 15:57:21	BZB0674	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	3100	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:17:00	02/14/2025 16:40:06	BZB0627	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	409	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/21/2025 10:33:00	02/21/2025 11:23:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	48700	11.7	33.1		mg/L	FALSE	NA	25					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 16:51:00	02/14/2025 17:08:00	BZB0657	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	287000	1000	1000		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/19/2025 11:05:00	02/19/2025 16:53:00	BZB0746	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	454	4	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 12:10:00	02/14/2025 17:10:00	BZB0626	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1120-04	Water	Water	02/13/2025 16:30:00	02/14/2025 14:05:00	02/19/2025 13:36:18	BZB0642	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake-Grab	25B1871-01	Water	Water	02/25/2025 12:02:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall-Grab	25B1871-02	Water	Water	02/25/2025 12:04:00	02/26/2025 17:56:00	02/27/2025 18:15:00	BZB1109	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 10:05:00	02/27/2025 11:54:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	21.7	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.5	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	64.5	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	317	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	70.2	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	14100	4.8	10		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 11:46:17	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	8510	17.1	25		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 12:33:38	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	81100	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.486	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.0012	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0189	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0656	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.0794	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.124	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.124	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0838	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:24:00	02/27/2025 12:50:53	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 03:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	181000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 12:21:00	02/27/2025 02:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	21400	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:15:00	02/26/2025 13:55:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	197	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	03/05/2025 11:30:00	03/05/2025 15:53:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	6700	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:52:00	02/27/2025 13:52:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	537	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:25:00	02/27/2025 13:02:51	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	59000	21.6	53.7		mg/L	FALSE	NA	10					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	35	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/26/2025 13:31:00	02/26/2025 14:02:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25B1871-03	Water	Water	02/25/2025 16:40:00	02/27/2025 13:15:00	03/04/2025 10:39:40	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 10:05:00	02/27/2025 12:03:00	BZB1127	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	67.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Al (T) 200.7	EPA 200.7	EPA 200.7	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	B (T) 200.7	EPA 200.7	EPA 200.7	Boron, Total	51.8	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ba (T) 200.7	EPA 200.7	EPA 200.7	Barium, Total	ND	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Ca (T) 200.7	EPA 200.7	EPA 200.7	Calcium, Total	258	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Fe (T) 200.7	EPA 200.7	EPA 200.7	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Li (T) 200.7	EPA 200.7	EPA 200.7	Lithium, Total	36.1	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Mg (T) 200.7	EPA 200.7	EPA 200.7	Magnesium, Total	11600	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	Potassium (T) 200.7	EPA 200.7	EPA 200.7	Potassium, Total	6860	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	BZB1087	SiO2 (T) 200.7	EPA 200.7	EPA 200.7	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 12:40:47	BZB1087	Sodium (T) 200.7	EPA 200.7	EPA 200.7	Sodium, Total	61400	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	As (T) 200.8	EPA 200.8	200.8	Arsenic, Total	0.211	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cd (T) 200.8	EPA 200.8	200.8	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cr (T) 200.8	EPA 200.8	200.8	Chromium, Total	0.0161	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Cu (T) 200.8	EPA 200.8	200.8	Copper, Total	0.0604	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Lead (T) 200.8	EPA 200.8	200.8	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mn (T) 200.8	EPA 200.8	200.8	Manganese, Total	0.361	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Mo (T) 200.8	EPA 200.8	200.8	Molybdenum, Total	0.0681	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Ni (T) 200.8	EPA 200.8	200.8	Nickel, Total	0.101	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Se (T) 200.8	EPA 200.8	200.8	Selenium, Total	0.0612	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Silver (T) 200.8	EPA 200.8	200.8	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:24:00	02/27/2025 12:54:48	BZB1086	Zn (T) 200.8	EPA 200.8	200.8	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 04:06:00	BZB1059	Chloride (IC)	EPA 300.0	NO PREP	Chloride	145000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					LLC			R-05														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 12:21:00	02/27/2025 03:51:00	BZB1059	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	12600	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:15:00	02/26/2025 15:07:00	BZB1063	Bromide (IC)	EPA 300.1	NO PREP	Bromide	151	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	03/05/2025 11:30:00	03/05/2025 15:57:00	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB			B-03														1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 11:28:00	02/27/2025 16:19:47	BZB1123	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2820	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 14:32:00	02/27/2025 14:32:00	BZB1117	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	347	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:25:00	02/27/2025 13:12:28	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	48600	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 11:05:00	02/26/2025 11:30:00	BZB1046	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	262000	20	20		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 15:00:00	02/26/2025 15:17:00	BZB1081	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	39	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/26/2025 13:31:00	02/26/2025 14:03:00	BZB1067	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	GSL DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25B1871-04	Water	Water	02/25/2025 16:20:00	02/27/2025 13:15:00	03/04/2025 10:43:23	BZB1124	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNU	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME		ANALYTE	Result	DL	RL	UNC	UNITS	RPTxMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUD	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake - Grab	25C0269-01	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall - Grab	25C0269-02	Water	Water	3/4/2025 8:55	3/6/2025 10:24	3/7/2025 16:21	BZC0215	O&G	EPA 1664B	NO PREP		Oil & Grease (HEM)	ND		5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 11:26	3/6/2025 12:26	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		28	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		59	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.18	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		292	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		0.8	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		64.9	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		13400	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		8490	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:48	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		80000	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.497	0.0044	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0012	0.005	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0201	0.0062	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.033	0.0182	0.025	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0087	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0433	0.0159	0.0175	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.132	0.0038	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0516	0.0112	0.0125	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0906	0.0141	0.015	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.008	0.012	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:34	3/6/2025 15:40	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.05	0.25	mg/L	FALSE	NA	5					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 15:46	3/6/2025 11:51	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		174000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:28	3/6/2025 13:28	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		23600	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 13:06	3/6/2025 13:06	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		161	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:01	3/5/2025 16:06	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4080	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 21:06	3/5/2025 21:06	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		549	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/6/2025 12:19	3/7/2025 12:23	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		56000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		339000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 13:52	3/5/2025 14:26	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Intake	25C0269-03	Water	Water	3/4/2025 14:40	3/5/2025 14:08	3/10/2025 13:50	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		8	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 11:26	3/6/2025 12:35	BZC0226	Mercury (T) 1631	EPA 1631	NO PREP		Mercury, Total		51.9	9	20	ng/L	FALSE	NA	20					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Al (T) 200.7	EPA 200.7	EPA 200.2		Aluminum, Total	ND		1.2	1.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	B (T) 200.7	EPA 200.7	EPA 200.2		Boron, Total		51.1	0.61	1.25	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ba (T) 200.7	EPA 200.7	EPA 200.2		Barium, Total		0.155	0.057	0.125	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Ca (T) 200.7	EPA 200.7	EPA 200.2		Calcium, Total		276	0.7	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Fe (T) 200.7	EPA 200.7	EPA 200.2		Iron, Total		2.34	0.57	0.75	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Li (T) 200.7	EPA 200.7	EPA 200.2		Lithium, Total		45.5	0.403	0.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Mg (T) 200.7	EPA 200.7	EPA 200.2		Magnesium, Total		11700	2.4	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	Potassium (T) 200.7	EPA 200.7	EPA 200.2		Potassium, Total		7390	8.6	12.5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	BZC0230	SiO2 (T) 200.7	EPA 200.7	EPA 200.2		Silica, (as SiO2) Total	ND		4.2	5	mg/L	FALSE	NA	1.25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:52	BZC0230	Sodium (T) 200.7	EPA 200.7	EPA 200.2		Sodium, Total		67200	343	500	mg/L	FALSE	NA	25					AB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	As (T) 200.8	EPA 200.8		200.2	Arsenic, Total		0.054	0.0009	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cd (T) 200.8	EPA 200.8		200.2	Cadmium, Total	ND		0.0002	0.001	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cr (T) 200.8	EPA 200.8		200.2	Chromium, Total		0.0034	0.0012	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Cu (T) 200.8	EPA 200.8		200.2	Copper, Total		0.0052	0.0036	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Lead (T) 200.8	EPA 200.8		200.2	Lead, Total	ND		0.0017	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mn (T) 200.8	EPA 200.8		200.2	Manganese, Total		0.0554	0.0032	0.0035	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Mo (T) 200.8	EPA 200.8		200.2	Molybdenum, Total		0.0169	0.0008	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Ni (T) 200.8	EPA 200.8		200.2	Nickel, Total		0.0088	0.0022	0.0025	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Se (T) 200.8	EPA 200.8		200.2	Selenium, Total		0.0116	0.0028	0.003	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Silver (T) 200.8	EPA 200.8		200.2	Silver, Total	ND		0.002	0.002	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:34	3/6/2025 15:44	BZC0187	Zn (T) 200.8	EPA 200.8		200.2	Zinc, Total	ND		0.009	0.05	mg/L	FALSE	NA	1					AME																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 15:46	3/6/2025 13:03	BZC0199	Chloride (IC)	EPA 300.0	NO PREP		Chloride		149000	180	500	mg/L	FALSE	NA	500					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Nitrate	EPA 300.0	NO PREP		Nitrate as N	ND		6.64	10	mg/L	FALSE	NA	100					EK		R-05														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 13:52	3/6/2025 13:52	BZC0199	Sulfate (IC)	EPA 300.0	NO PREP		Sulfate		15400	49.4	100	mg/L	FALSE	NA	100					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 14:07	3/6/2025 14:07	BZC0167	Bromide (IC)	EPA 300.1	NO PREP		Bromide		132	4.7	10	mg/L	FALSE	NA	1000					EK																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:01	3/5/2025 16:10	BZC0150	Cyanide, Total	EPA 335.4	EPA 9010C		Cyanide, Total	ND		0.022	0.03	mg/L	FALSE	NA	6					RuB		B-03														1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 12:15	3/5/2025 15:53	BZC0155	COD	Hach 8000	NO PREP		Chemical Oxygen Demand		4300	154	250	mg/L	FALSE	NA	25					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Bicarbonate (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Carbonate (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Hydroxide (as CaCO3)	ND		0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 21:45	3/5/2025 21:45	BZC0143	Alkalinity (w/total)	SM 2320 B	NO PREP		Alkalinity - Total (as CaCO3)		398	0.2	1	mg/L	FALSE	NA	1					HM																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 12:19	3/7/2025 12:36	[CALC]	Hardness AP	SM 2340 B	[CALC]		Hardness, Total as CaCO3		49000	11.7	33.1	mg/L	FALSE	NA	1					AB																0
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/6/2025 10:56	3/6/2025 11:20	BZC0221	TDS	SM 2540 C	NO PREP		Total Dissolved Solids (TDS)		268000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 11:54	3/5/2025 12:06	BZC0152	TSS	SM 2540 D	NO PREP		Total Suspended Solids (TSS)		53	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 13:52	3/5/2025 14:28	BZC0178	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***		Nitrite as N	ND		0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutio	Steve Morr	Great Salt L	Chemtech-I	Outfall	25C0269-04	Water	Water	3/4/2025 15:18	3/5/2025 14:08	3/10/2025 13:52	BZC0181	BOD	SM 5210 B	NO PREP		Biochemical Oxygen Demand		9	2	5	mg/L	FALSE	NA	1					LLC			BOD-BL													1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1108-01	Water	Water	03/13/2025 10:53:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1108-02	Water	Water	03/13/2025 11:01:00	03/14/2025 10:44:00	03/14/2025 16:40:00	BZC0599	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:34:26	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.192	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	305	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8800	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:06:28	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91200	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.411	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0135	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0375	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0445	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0449	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0806	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:40:08	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 09:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	23000	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 16:38:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:43:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	6080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/15/2025 01:42:00	03/15/2025 01:42:38	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	558	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:43:35	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60000	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	311000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	95	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:54:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1108-03	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:23:00	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	12	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/19/2025 10:00:00	03/19/2025 11:52:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.15	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	279	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	45.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	12600	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7660	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	BZC0662	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 11:11:51	BZC0662	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	76300	172	250		mg/L	FALSE	NA	10					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.257	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0191	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0292	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.321	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0972	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0427	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0635	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:56:00	03/18/2025 13:44:01	BZC0663	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:16:00	BZC0613	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	155000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:00:00	03/15/2025 10:01:00	BZC0613	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	16700	49.4	100		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:35:00	03/14/2025 17:56:00	BZC0641	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	148	4.7	10		mg/L	FALSE	NA	1000					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/21/2025 11:13:00	03/21/2025 13:47:00	BZC0982	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/18/2025 15:51:00	03/19/2025 13:56:05	BZC0790	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2620	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/15/2025 02:00:00	03/15/2025 02:00:48	BZC0596	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 16:55:00	03/17/2025 10:56:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	52700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 12:25:00	03/14/2025 16:00:00	BZC0619	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	265000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/17/2025 14:35:00	03/17/2025 14:54:00	BZC0730	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	189	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:56:00	03/14/2025 16:55:00	BZC0645	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1108-04	Water	Water	03/13/2025 15:20:00	03/14/2025 14:10:00	03/19/2025 14:24:27	BZC0630	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1368-01	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Effluent - Grab	25C1368-02	Water	Water	03/18/2025 11:30:00	03/19/2025 11:20:00	03/20/2025 12:10:00	BZC0829	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 11:58:24	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.6	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	2.1	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	58.9	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.175	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	299	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	66.7	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14000	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8310	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:40:43	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	88200	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.415	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0194	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0376	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0447	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.121	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0393	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.097	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:15:07	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	194000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 12:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	22800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 14:47:00	03/25/2025 14:47:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:10:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	925	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 20:28:00	03/20/2025 20:28:20	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:18:13	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	58300	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	329000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	24	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:51:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1368-03	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:09:10	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	16	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 10:00:00	03/19/2025 12:16:21	BZC0767	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	20.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	53.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.13	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	282	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	47.3	0.403	0.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	12900	2.4	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7710	8.6	12.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	BZC0940	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:45:02	BZC0940	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	79800	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.242	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0309	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0325	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.301	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.107	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0377	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0859	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:30:00	03/24/2025 14:19:04	BZC0938	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Chloride (IC)	EPA 300.0	NO PREP	Chloride	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:33:00	03/19/2025 13:16:00	BZC0831	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 15:49:00	03/25/2025 15:49:00	BZC1137	Bromide (IC)	EPA 300.1	NO PREP	Bromide	155	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/25/2025 12:49:00	03/25/2025 13:14:00	BZC1131	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 11:01:00	03/21/2025 16:19:33	BZC0979	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	900	154	250		mg/L	FALSE	NA	25					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 20:44:00	03/20/2025 20:44:46	BZC0900	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	391	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/20/2025 15:33:00	03/21/2025 11:31:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	53900	11.7	33.1		mg/L	FALSE	NA	5					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 11:28:00	03/19/2025 12:00:00	BZC0830	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	287000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/21/2025 14:00:00	03/21/2025 14:30:00	BZC1056	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	31	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 17:04:00	03/19/2025 19:53:00	BZC0881	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1368-04	Water	Water	03/18/2025 16:00:00	03/19/2025 13:55:00	03/24/2025 12:10:31	BZC0838	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	9	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25C1894-01	Water	Water	03/25/2025 10:50:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25C1894-02	Water	Water	03/25/2025 10:52:00	03/28/2025 10:08:00	03/31/2025 13:10:00	BZC1350	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	04/01/2025 10:35:00	04/01/2025 13:55:34	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	23.2	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.9	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.7	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.182	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	312	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	81.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	16100	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	9170	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:19:40	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	96700	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.372	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.023	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0436	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.0264	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.114	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.0146	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0765	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:44:00	03/27/2025 13:58:34	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:22:00	03/26/2025 22:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	177000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 22:33:00	03/26/2025 22:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	23500	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 16:03:00	03/26/2025 16:03:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	170	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 10:59:00	03/28/2025 12:55:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	2080	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 18:17:00	03/26/2025 18:17:16	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	578	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:42:00	03/27/2025 11:42:40	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	67100	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	334000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	71	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 14:11:00	03/26/2025 14:28:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25C1894-03	Water	Water	03/25/2025 15:05:00	03/26/2025 13:35:00	03/31/2025 12:38:54	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	5	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	04/01/2025 10:35:00	04/01/2025 14:19:32	BZD0038	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	ND	9	20		ng/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	1.7	1.2	1.5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	61.4	0.61	1.25		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	0.132	0.057	0.125		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	308	0.7	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	ND	0.57	0.75		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	52.6	8.07	10		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	14500	48	100		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	8210	171	250		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:38:03	BZC1229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	ND	4.2	5		mg/L	FALSE	NA	5					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	BZC1229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	85500	343	500		mg/L	FALSE	NA	100					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	0.256	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	ND	0.001	0.005		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	0.0297	0.006	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	0.0417	0.018	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	ND	0.009	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	0.346	0.016	0.018		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	0.0918	0.004	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	0.031	0.011	0.013		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	0.0739	0.014	0.015		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	ND	0.008	0.012		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:44:00	03/27/2025 14:02:24	BZC1230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	ND	0.05	0.25		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:22:00	03/26/2025 23:48:00	BZC1210	Chloride (IC)	EPA 300.0	NO PREP	Chloride	163000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Nitrate	EPA 300.0	NO PREP	Nitrate as N	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 23:33:00	03/26/2025 23:33:00	BZC1210	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	19400	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 17:04:00	03/26/2025 17:04:00	BZC1245	Bromide (IC)	EPA 300.1	NO PREP	Bromide	158	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 10:59:00	03/28/2025 12:59:00	BZC1364	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/28/2025 11:13:00	03/28/2025 16:59:55	BZC1370	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	1200	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 18:34:00	03/26/2025 18:34:40	BZC1196	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	405	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:42:00	03/27/2025 11:47:16	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	60700	199	424		mg/L	FALSE	NA	100					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 12:46:00	03/26/2025 13:10:00	BZC1206	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	300000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:34:00	03/26/2025 14:46:00	BZC1226	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	299	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 14:11:00	03/26/2025 14:30:00	BZC1220	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25C1894-04	Water	Water	03/25/2025 15:15:00	03/26/2025 13:35:00	03/31/2025 12:40:34	BZC1202	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	ND	2	5		mg/L	FALSE	NA	1					LLC			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0313-01	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D0313-02	Water	Water	04/02/2025 08:45:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:41:38	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	53.4	12.1	25		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	67.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8710	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:52:20	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	82800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.424	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0278	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0271	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0388	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.133	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0129	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.113	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:04:11	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 11:51:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:06:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 20:38:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:24:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1750	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/08/2025 11:33:00	04/08/2025 11:33:24	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	575	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:13:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	65	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:56:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0313-03	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:49:47	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:37:00	04/07/2025 11:59:35	BZD0312	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	54.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.232	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	294	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8460	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	BZD0229	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:56:57	BZD0229	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	79500	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.309	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0428	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.254	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0402	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0955	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:24:00	04/07/2025 14:06:49	BZD0230	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	162000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 12:52:00	BZD0159	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 11:06:00	04/03/2025 13:07:00	BZD0159	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	21500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:31:00	04/03/2025 21:39:00	BZD0188	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	138	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/07/2025 09:46:00	04/07/2025 14:29:00	BZD0316	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 11:36:00	04/04/2025 16:56:00	BZD0251	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/08/2025 11:50:00	04/08/2025 11:50:37	BZD0323	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 08:22:00	04/07/2025 12:47:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:44:00	04/03/2025 16:00:00	BZD0176	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	310000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/04/2025 10:35:00	04/04/2025 16:00:00	BZD0239	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	101	0.8	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 12:33:00	04/03/2025 12:57:00	BZD0169	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0313-04	Water	Water	04/02/2025 15:00:00	04/03/2025 13:05:00	04/08/2025 10:51:53	BZD0164	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D0731-03	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall- Grab	25D0731-04	Water	Water	04/08/2025 12:00:00	04/09/2025 12:40:00	04/10/2025 15:25:00	BZD0483	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 09:05:00	04/14/2025 15:26:27	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.238	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	290	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.5	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8410	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:46:43	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.45	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0254	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0254	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0343	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:30:00	04/10/2025 15:03:36	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	159000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 11:32:00	04/09/2025 13:07:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20300	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/14/2025 14:52:00	04/14/2025 14:52:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 10:22:00	04/11/2025 13:05:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/11/2025 18:11:00	04/11/2025 18:11:03	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	574	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:29:00	04/10/2025 10:28:18	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	324000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 09:13:00	04/09/2025 10:29:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D0731-01	Water	Water	04/08/2025 14:10:00	04/09/2025 16:50:00	04/14/2025 15:46:52	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 09:05:00	04/14/2025 15:44:25	BZD0691	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.6	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.198	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	280	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	44.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8270	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	BZD0522	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:51:18	BZD0522	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.339	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0332	0.006	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.125	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0979	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0319	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:30:00	04/10/2025 15:06:14	BZD0523	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	33.2	50		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 11:32:00	04/09/2025 13:52:00	BZD0473	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	22900	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/14/2025 15:54:00	04/14/2025 15:54:00	BZD0722	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 10:22:00	04/11/2025 13:09:00	BZD0620	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/10/2025 10:06:00	04/10/2025 16:09:33	BZD0540	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	900	154	250		mg/L	FALSE	NA	25					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/11/2025 18:45:00	04/11/2025 18:45:34	BZD0625	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	450	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:29:00	04/10/2025 10:42:07	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55800	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 12:07:00	04/09/2025 12:45:00	BZD0479	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	321000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 17:27:00	04/09/2025 17:35:00	BZD0531	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 09:13:00	04/09/2025 10:32:00	BZD0449	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D0731-02	Water	Water	04/08/2025 14:15:00	04/09/2025 16:50:00	04/14/2025 15:48:26	BZD0503	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1314-01	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1314-02	Water	Water	04/15/2025 09:18:00	04/16/2025 12:00:00	04/16/2025 17:05:00	BZD0872	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 11:02:00	04/17/2025 11:59:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8580	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:30:30	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.383	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.016	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0272	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0352	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0284	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0738	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:06:00	04/23/2025 16:05:38	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:45:00	04/17/2025 07:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 07:30:00	04/17/2025 07:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 23:49:00	04/17/2025 19:22:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:48:00	04/17/2025 13:04:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2380	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 17:58:00	04/17/2025 17:58:08	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	576	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 16:04:00	04/18/2025 11:39:08	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57600	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	87	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 14:32:00	04/16/2025 16:34:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1314-03	Water	Water	04/15/2025 15:30:54	04/16/2025 11:14:00	04/21/2025 12:09:45	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 11:02:00	04/17/2025 12:08:00	BZD0952	Mercury (T) 1631	EPA 16310	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.138	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	288	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	47.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	BZD0994	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:34:50	BZD0994	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.406	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0228	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.026	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0926	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.105	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0413	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0687	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:06:00	04/23/2025 16:08:16	BZD0992	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:45:00	04/17/2025 08:45:00	BZD0889	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	172000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 08:30:00	04/17/2025 08:30:00	BZD0889	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 00:50:00	04/17/2025 20:24:00	BZD0903	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:48:00	04/17/2025 13:08:00	BZD0883	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 13:00:00	04/17/2025 15:52:10	BZD0962	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	154	250		mg/L	FALSE	NA	25					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 18:14:00	04/17/2025 18:14:01	BZD0984	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	504	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 16:04:00	04/18/2025 11:52:05	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/17/2025 10:24:00	04/17/2025 11:30:00	BZD0932	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 12:14:00	04/16/2025 12:28:00	BZD0873	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	153	5	7		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 14:32:00	04/16/2025 16:36:00	BZD0895	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1314-04	Water	Water	04/15/2025 15:30:00	04/16/2025 11:14:00	04/21/2025 12:11:21	BZD0856	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD			BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25D1952-01	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25D1952-02	Water	Water	04/22/2025 10:25:00	04/28/2025 16:11:00	04/29/2025 13:40:00	BZD1515	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:12:47	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.145	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	304	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:40:20	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.449	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0264	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.037	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0784	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.131	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.1	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:55:46	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 06:42:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24100	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 21:31:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	169	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:10:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1650	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 21:55:00	04/25/2025 21:55:54	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	586	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:01:56	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59500	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	340000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	146	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:54:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25D1952-03	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:22:52	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/30/2025 09:47:00	05/01/2025 13:30:43	BZD1531	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	33.2	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.132	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	49.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	BZD1501	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 12:44:39	BZD1501	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92100	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.372	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0382	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.128	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0341	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.104	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:28:00	04/29/2025 13:58:22	BZD1500	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	160000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 15:21:00	04/24/2025 07:43:00	BZD1275	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	20400	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:57:00	04/28/2025 22:33:00	BZD1503	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/29/2025 10:20:00	05/01/2025 14:15:00	BZD1532	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	05/01/2025 11:34:00	05/05/2025 15:04:44	BZE0021	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1550	308	500		mg/L	FALSE	NA	50					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 22:11:00	04/25/2025 22:11:53	BZD1383	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	480	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/28/2025 14:26:00	04/29/2025 13:14:55	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/25/2025 12:56:00	04/25/2025 16:00:00	BZD1422	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	330000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/24/2025 14:42:00	04/24/2025 14:55:00	BZD1356	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	107	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 16:06:00	04/23/2025 16:55:00	BZD1287	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25D1952-04	Water	Water	04/22/2025 14:30:00	04/23/2025 17:05:00	04/28/2025 13:24:03	BZD1276	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					EK																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:30:02	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.178	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8860	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:30:37	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.44	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0234	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0385	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.134	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0196	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0968	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:53:18	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:06:00	05/02/2025 14:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	178000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 13:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 14:36:00	05/05/2025 14:36:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:44:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 22:26:00	05/02/2025 22:26:46	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	573	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:40:15	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	347000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	221	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:15:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0114-01	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:37:21	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 13:48:00	05/06/2025 14:48:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	271	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	21.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8530	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	BZE0136	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:33:25	BZE0136	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	88400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.272	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0314	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0366	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.305	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0557	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0278	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.0916	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:40:00	05/05/2025 13:57:11	BZE0135	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:06:00	05/02/2025 15:06:00	BZE0100	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 13:04:00	05/02/2025 14:51:00	BZE0100	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 15:38:00	05/05/2025 15:38:00	BZE0177	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	165	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/09/2025 13:52:00	05/09/2025 16:49:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 14:33:00	05/07/2025 17:27:00	BZE0247	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 22:48:00	05/02/2025 22:48:51	BZE0097	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	378	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 09:41:00	05/06/2025 12:53:59	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/06/2025 11:06:00	05/06/2025 12:00:00	BZE0214	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/05/2025 16:10:00	05/05/2025 16:47:00	BZE0194	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	72	5	7		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 15:51:00	05/02/2025 17:17:00	BZE0118	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0114-02	Water	Water	05/01/2025 14:35:00	05/02/2025 14:02:00	05/07/2025 14:38:33	BZE0105	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Blank	25E0114-03	Water	Water	05/01/2025 00:00:00	05/06/2025 13:48:00	05/06/2025 14:54:01	BZE0243	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AB																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25E0394-01	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25E0394-02	Water	Water	05/06/2025 10:30:00	05/08/2025 14:00:00	05/09/2025 11:25:00	BZE0388	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTP10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/12/2025 09:11:00	05/12/2025 12:45:22	BZE0497	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.5	1.2	1.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.8	0.61	1.25	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.188	0.057	0.125	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	284	0.7	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.4	0.403	0.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13600	48	100	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8740	8.6	12.5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:24:11	BZE0270	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5	mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:11:14	BZE0270	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93200	343	500	mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.459	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 12:55:44	BZE0269	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.031	0.063	mg/L	FALSE	NA	5					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0759	0.018	0.025	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0431	0.016	0.018	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.111	0.004	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.03	0.011	0.013	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26400	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 15:52:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	168	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:50:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1200	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.102	0.014	0.015	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 09:26:00	05/08/2025 11:14:27	BZE0269	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	175000	180	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 05:19:00	BZE0309	Nitrate as N	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 14:33:00	05/08/2025 06:20:00	BZE0309	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	49.4	100	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/07/2025 15:04:00	05/07/2025 16:53:00	BZE0313	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	162	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/09/2025 13:52:00	05/09/2025 16:57:00	BZE0465	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03	mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-03	Water	Water	05/06/2025 14:30:00	05/08/2025 12:30:00	05/08/2025 18:00:50	BZE0379	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTP10049	FALSE	FALSE	1000	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E0394-04	Water	Water	05/06/2025 14:30:00	05/08/2025 21:55:00	05/08/2025 21:55:56	BZE0354	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTP10279	FALSE	FALSE	492	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 09:25:00	05/08/2025 12:45:30	BZE0270	[CALC]	Hardness AP	SM 2340 B	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55300	199	424	mg/L	FALSE	NA	20					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/09/2025 17:06:00	05/09/2025 17:15:00	BZE0486	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTP10226	FALSE	FALSE	362000	1000	1000	mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 15:11:00	05/07/2025 15:30:00	BZE0317	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTP10267	FALSE	FALSE	89	5	7	mg/L	FALSE	NA	1					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 17:13:00	05/07/2025 18:32:00	BZE0336	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E0394-04	Water	Water	05/06/2025 14:30:00	05/07/2025 16:35:00	05/12/2025 12:13:42	BZE0288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTP10003	FALSE	FALSE	13	2	5	mg/L	FALSE	NA	1					DD		BOD-BL														1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E1680-01	Water	Water	05/20/2025 09:49:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E1680-02	Water	Water	05/20/2025 09:50:00	05/22/2025 15:58:00	05/23/2025 14:27:00	BZE1131	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:15:13	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.3	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	277	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:37:45	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	69.6	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8280	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:12:51	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94400	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:17:02	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0515	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0434	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.028	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.101	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:30:47	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	187000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 01:18:00	05/22/2025 01:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26700	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/27/2025 11:11:00	05/28/2025 15:59:00	BZE1226	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	201	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 10:56:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 18:30:00	05/22/2025 18:30:09	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	569	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:30:25	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58100	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	335000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	62	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:10:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E1680-03	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:42:09	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	11	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 13:39:00	05/21/2025 14:33:11	BZE1028	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	24.9	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.16	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	270	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:43:00	05/23/2025 13:42:56	BZE1094	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.46	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	18.8	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13300	48	100		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7880	171	250		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	BZE1051	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.6	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:15:27	BZE1051	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90300	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.31	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:19:46	BZE1057	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0535	0.018	0.025		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.182	0.016	0.018		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0304	0.011	0.013		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.121	0.014	0.015		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:18:00	05/22/2025 11:33:31	BZE1057	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	173000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 02:18:00	05/22/2025 02:18:00	BZE1035	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	06/02/2025 16:07:00	06/02/2025 16:07:00	BZF0074	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	158	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/28/2025 14:44:00	05/29/2025 11:00:00	BZE1345	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:35:00	05/22/2025 11:33:27	BZE1041	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 18:52:00	05/22/2025 18:52:35	BZE1076	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	394	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 15:56:00	05/22/2025 10:35:37	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55500	199	424		mg/L	FALSE	NA	20					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/22/2025 11:37:00	05/22/2025 11:45:00	BZE1093	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	328000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:19:00	05/21/2025 16:30:00	BZE1058	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	64	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 14:11:00	05/21/2025 18:13:00	BZE1033	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E1680-04	Water	Water	05/20/2025 14:15:00	05/21/2025 16:15:00	05/26/2025 13:44:08	BZE1045	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25E2428-01	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25E2428-02	Water	Water	05/29/2025 10:35:00	06/02/2025 16:19:00	06/03/2025 14:30:00	BZF0078	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					WP																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:09:51	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.5	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.8	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.3	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8600	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:33:52	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.48	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.062	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0359	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0298	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.132	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 09:56:43	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.215	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:22:08	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	183000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 05:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25200	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 18:19:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	179	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:23:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1200	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 23:54:00	05/30/2025 23:54:19	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	552	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:50:21	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	91	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:19:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25E2428-03	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:18:54	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 10:58:00	06/06/2025 13:27:48	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	31.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.148	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	2.4	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13900	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8480	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	BZF0061	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.3	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 11:37:12	BZF0061	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.323	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:51:50	BZF0060	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	ND	0.124	0.25		mg/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0344	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.141	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0548	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:00:37	BZF0060	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.112	0.125		mg/L	FALSE	NA	10					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.264	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:12:00	06/03/2025 10:24:44	BZF0060	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	181000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 12:57:00	05/31/2025 06:52:00	BZE1481	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:54:00	05/30/2025 19:41:00	BZE1471	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	170	0.5	1		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/04/2025 13:05:00	06/04/2025 16:27:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18		mg/L	FALSE	NA	6					RuB			R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/06/2025 13:23:00	06/09/2025 12:30:30	BZF0346	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/31/2025 00:14:00	05/31/2025 00:14:07	BZE1513	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	414	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:10:00	06/03/2025 12:07:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 16:02:00	05/30/2025 16:30:00	BZE1521	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	326000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	06/02/2025 14:36:00	06/03/2025 14:26:00	BZF0065	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	98	8	10		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 14:03:00	05/30/2025 15:21:00	BZE1489	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25E2428-04	Water	Water	05/29/2025 14:36:00	05/30/2025 11:46:00	06/04/2025 13:20:24	BZE1467	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F0273-01	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F0273-02	Water	Water	06/03/2025 09:55:00	06/05/2025 13:15:00	06/06/2025 13:00:00	BZF0245	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5	mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/08/2025 10:58:00	06/08/2025 13:33:46	BZF0323	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.2	9	20	ng/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	5.2	1.2	1.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.185	0.057	0.125	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.4	0.403	0.5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14300	48	100	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8390	171	250	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:52:23	BZF0173	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.3	4.2	5	mg/L	FALSE	NA	1					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:39:22	BZF0173	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96700	343	500	mg/L	FALSE	NA	20					TM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.423	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0208	0.006	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0299	0.018	0.025	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.04	0.016	0.018	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.125	0.004	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0152	0.011	0.013	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.238	0.014	0.015	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 11:03:00	06/05/2025 14:39:30	BZF0174	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25	mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24300	247	500	mg/L	FALSE	NA	500					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/09/2025 15:09:00	06/09/2025 22:06:00	BZF0423	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	140	0.5	1	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 15:39:00	06/04/2025 15:39:31	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	559	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 16:45:00	06/04/2025 21:56:00	BZF0218	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10	mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F0273-03	Water	Water	06/03/2025 14:40:00	06/04/2025 13:05:00	06/04/2025 16:28:00	BZF0196	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.132	0.18	mg/L	FALSE	NA	6					RuB		R-05														1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/11/2025 12:36:00	06/11/2025 17:38:09	BZF0536	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000	mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 16:00:00	06/04/2025 16:00:57	BZF0183	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	312	0.2	1	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 11:02:00	06/05/2025 11:57:35	BZF0173	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57100	199	424	mg/L	FALSE	NA	20					TM																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/05/2025 10:33:00	06/05/2025 16:00:00	BZF0250	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	332000	1000	1000	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/06/2025 15:36:00	06/06/2025 16:00:00	BZF0366	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	175	8	10	mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 15:24:00	06/05/2025 11:36:00	BZF0213	OA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1	mg/L	FALSE	NA	1					KC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F0273-04	Water	Water	06/03/2025 14:40:00	06/04/2025 17:30:00	06/09/2025 15:14:40	BZF0221	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	10	2	5	mg/L	FALSE	NA	1					EK																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1263-01	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1263-02	Water	Water	06/12/2025 11:24:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:19:00	06/16/2025 11:48:26	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23.5	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.142	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	62.3	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8510	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 11:50:38	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93300	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.6	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.187	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0286	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0404	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.218	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.024	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.729	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:19:00	06/18/2025 15:18:06	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 14:32:00	06/13/2025 22:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/17/2025 13:27:00	06/18/2025 03:45:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	181	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/20/2025 12:41:00	06/21/2025 10:19:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 10:39:00	06/16/2025 12:26:47	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	526	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/16/2025 16:21:00	06/17/2025 12:10:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60200	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	359000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	121	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 13:51:00	06/13/2025 16:57:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1263-03	Water	Water	06/12/2025 16:00:51	06/13/2025 15:50:00	06/18/2025 14:23:42	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:19:00	06/16/2025 12:06:24	BZF0747	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.4	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.9	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.125	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	297	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.69	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	14.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8490	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	BZF0784	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 11:53:42	BZF0784	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.377	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.15	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0434	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.201	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.312	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0429	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.705	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:19:00	06/18/2025 15:19:24	BZF0786	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	177000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:31:00	BZF0706	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 14:32:00	06/13/2025 23:46:00	BZF0706	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24700	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/17/2025 13:27:00	06/18/2025 04:46:00	BZF0829	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/20/2025 12:41:00	06/21/2025 10:24:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 11:25:00	06/17/2025 12:22:06	BZF0751	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 10:39:00	06/16/2025 12:44:16	BZF0739	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	119	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/16/2025 16:21:00	06/17/2025 12:26:24	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:53:00	06/13/2025 16:00:00	BZF0724	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	264000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:40:00	06/13/2025 15:55:00	BZF0721	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	117	5	7		mg/L	FALSE	NA	1					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 13:51:00	06/13/2025 16:58:00	BZF0699	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1263-04	Water	Water	06/12/2025 15:30:00	06/13/2025 15:50:00	06/18/2025 14:26:31	BZF0701	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPTofMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/24/2025 12:49:00	06/24/2025 14:13:08	BZF1193	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	25.3	9	20		ng/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	2.6	1.2	1.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	56.9	0.61	1.25		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.212	0.057	0.125		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	300	0.7	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	65.2	0.403	0.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14600	2.4	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8470	8.6	12.5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	BZF0995	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:29:22	BZF0995	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	101000	343	500		mg/L	FALSE	NA	20					AB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.541	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.185	0.006	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	ND	0.018	0.025		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0377	0.016	0.018		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.162	0.004	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.017	0.011	0.013		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.763	0.014	0.015		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/19/2025 15:30:07	BZF0997	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:20:00	BZF0892	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 11:47:00	06/18/2025 12:35:00	BZF0892	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27500	247	500		mg/L	FALSE	NA	500					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/21/2025 00:36:00	06/21/2025 00:36:00	BZF1067	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	0.5	1		mg/L	FALSE	NA	100					LLC																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 12:41:00	06/21/2025 10:25:00	BZF1066	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					RuB																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 10:51:00	06/20/2025 15:51:27	BZF1046	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 09:21:00	06/20/2025 09:29:07	BZF0954	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	550	0.2	1		mg/L	FALSE	NA	1					DAN																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/19/2025 07:45:00	06/20/2025 09:37:11	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60700	11.7	33.1		mg/L	FALSE	NA	1					AB																0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/20/2025 11:01:00	06/20/2025 11:40:00	BZF1048	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	356000	1000	1000		mg/L	FALSE	NA	1					HM																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 14:23:00	06/18/2025 15:30:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	ND	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:31:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/18/2025 14:23:00	BZF0921	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F1492-01	Water	Water	06/17/2025 12:15:00	06/18/2025 13:09:00	06/18/2025 15:34:00	BZF0904	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F1492-02	Water	Water	06/17/2025 12:15:00	06/18/2025 15:22:00	06/23/2025 14:05:17	BZF0929	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25F1492-03	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25F1492-04	Water	Water	06/17/2025 12:15:00	06/18/2025 12:30:00	06/18/2025 16:50:00	BZF0899	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25F2188-01	Water	Water	06/24/2025 09:20:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	6	7		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25F2188-02	Water	Water	06/24/2025 13:36:00	06/27/2025 11:15:00	06/27/2025 14:25:00	BZF1396	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/01/2025 09:00:00	07/01/2025 11:21:23	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	ND	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	295	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	66.2	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:22:22	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	112000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.58	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.25	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0276	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0348	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.137	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.817	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:25:00	06/26/2025 14:13:56	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 02:01:00	06/26/2025 02:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 13:35:00	06/26/2025 01:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 21:34:00	06/25/2025 21:34:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:56:00	07/03/2025 15:42:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2400	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 12:19:00	06/27/2025 12:19:27	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	563	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:20:00	06/26/2025 11:35:26	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 14:33:00	06/25/2025 18:11:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25F2188-03	Water	Water	06/24/2025 09:20:00	06/25/2025 15:19:00	06/30/2025 15:11:11	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/01/2025 09:00:00	07/01/2025 11:39:20	BZF1481	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.158	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	293	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	0.85	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.6	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14200	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8450	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	BZF1277	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	ND	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:24:58	BZF1277	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	110000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.42	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.04	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.168	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.104	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0125	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.813	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:25:00	06/26/2025 14:17:51	BZF1276	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 03:01:00	06/26/2025 03:01:00	BZF1269	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 13:35:00	06/26/2025 02:46:00	BZF1269	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26200	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 22:35:00	06/25/2025 22:35:00	BZF1295	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	174	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:56:00	07/03/2025 15:46:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	07/02/2025 11:30:00	07/03/2025 10:50:05	BZG0110	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 12:44:00	06/27/2025 12:44:57	BZF1381	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:20:00	06/26/2025 11:51:22	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	59300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/27/2025 10:22:00	06/27/2025 11:00:00	BZF1388	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/26/2025 13:51:00	06/26/2025 14:46:00	BZF1345	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	8	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 14:33:00	06/26/2025 12:59:00	BZF1281	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25F2188-04	Water	Water	06/24/2025 16:45:00	06/25/2025 15:19:00	06/30/2025 15:13:06	BZF1288	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					CA																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G0181-01	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G0181-02	Water	Water	07/01/2025 08:30:00	07/03/2025 14:21:00	07/03/2025 16:00:00	BZG0228	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:19:52	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	21.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.202	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	316	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14800	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8960	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:50:26	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	95400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.609	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.236	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0259	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.038	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.908	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:55:28	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 12:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 15:17:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	176	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:47:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	0.005	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1300	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 20:01:00	07/02/2025 20:01:33	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	581	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:05:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 17:59:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G0181-03	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:06:50	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 09:29:00	07/07/2025 12:37:50	BZG0259	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	37.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.6	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	13.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8500	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	BZG0108	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	9.2	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 11:53:15	BZG0108	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.483	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.224	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0383	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.209	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.2	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	ND	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.933	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/02/2025 15:59:23	BZG0107	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:57:00	07/02/2025 13:44:00	BZG0116	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28200	49.4	100		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/07/2025 12:52:00	07/07/2025 16:18:00	BZG0294	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	155	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:56:00	07/03/2025 15:52:00	BZG0114	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/03/2025 12:22:00	07/03/2025 17:18:44	BZG0216	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 20:25:00	07/02/2025 20:25:18	BZG0179	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	341	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 11:25:00	07/03/2025 12:20:06	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58300	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 14:11:00	07/02/2025 16:00:00	BZG0148	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	259000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 12:49:00	07/02/2025 15:25:00	BZG0126	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 16:23:00	07/02/2025 18:01:00	BZG0173	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G0181-04	Water	Water	07/01/2025 14:30:00	07/02/2025 17:20:00	07/07/2025 13:09:03	BZG0161	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:40:34	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.4	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	58.7	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.18	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	289	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	61.9	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8050	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.1	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:16:07	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	96400	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.361	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0988	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0582	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0392	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.139	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.078	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.506	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:26:22	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 02:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26500	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 16:52:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:22:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2300	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:06:01	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	538	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:29:49	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	55900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	350000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	40	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:04:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1035-01	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:57:20	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 09:33:00	07/14/2025 14:58:32	BZG0651	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	51	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.135	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	281	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	17.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7950	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	BZG0716	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:20:41	BZG0716	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	97200	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.26	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0891	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0496	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.26	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.192	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0756	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.512	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:31:00	07/15/2025 14:30:16	BZG0714	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 03:56:00	BZG0597	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 12:17:00	07/12/2025 04:11:00	BZG0597	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	25600	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:19:00	07/11/2025 17:54:00	BZG0624	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	172	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/16/2025 11:20:00	07/16/2025 17:29:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:43:00	07/14/2025 16:08:51	BZG0683	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2800	617	1000		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:35:00	07/14/2025 13:44:20	BZG0680	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	219	0.2	1		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 15:36:00	07/15/2025 11:43:32	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	54700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 15:51:00	07/11/2025 16:15:00	BZG0636	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	344000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/14/2025 11:33:00	07/14/2025 12:05:00	BZG0677	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	6	0.8	1		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 14:31:00	07/11/2025 15:06:00	BZG0627	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RJN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1035-02	Water	Water	07/10/2025 15:28:00	07/11/2025 16:15:00	07/16/2025 12:59:04	BZG0628	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1035-03	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1035-04	Water	Water	07/10/2025 00:00:00	07/11/2025 15:33:00	07/14/2025 15:30:00	BZG0632	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:30:22	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	211	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	61.2	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.342	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	319	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14500	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8230	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:06:27	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	93900	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.464	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0594	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0467	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0353	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0464	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.37	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:30:04	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:27:30	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 04:04:00	07/17/2025 04:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	188000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/17/2025 03:49:00	07/17/2025 03:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 17:10:00	07/16/2025 17:10:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	182	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:16:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1600	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:28:24	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	584	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:52:45	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	60500	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	349000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:22:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G1349-01	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:07:23	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/21/2025 10:12:00	07/21/2025 11:48:20	BZG1043	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	29.1	9	20		ng/L	FALSE	NA	20					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	59.6	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.288	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	306	14.6	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	13800	48	100		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	7830	171	250		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 12:20:11	BZG0822	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	5.8	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	BZG0822	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	90000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.367	0.022	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.006	0.025		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0523	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0583	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.044	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.159	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0645	0.019	0.063		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0536	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.316	0.071	0.075		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:40:52	BZG0823	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.042	0.062		mg/L	FALSE	NA	5					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/16/2025 14:31:22	BZG0823	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 05:04:00	07/17/2025 05:04:00	BZG0844	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	180000	180	500		mg/L	FALSE	NA	500					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/17/2025 04:49:00	07/17/2025 04:49:00	BZG0844	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26800	49.4	100		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 18:12:00	07/16/2025 18:12:00	BZG0843	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	0.5	1		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:20:00	07/16/2025 17:21:00	BZG0826	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:48:00	07/17/2025 11:08:01	BZG0841	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2100	617	1000		mg/L	FALSE	NA	100					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/18/2025 10:05:00	07/18/2025 12:51:34	BZG0977	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	282	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 10:54:00	07/17/2025 11:57:19	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	57700	234	662		mg/L	FALSE	NA	20					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:32:00	07/16/2025 16:00:00	BZG0837	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	338000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 11:51:00	07/16/2025 12:06:00	BZG0834	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	36	3	4		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 15:45:00	07/16/2025 16:24:00	BZG0862	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G1349-02	Water	Water	07/15/2025 15:16:00	07/16/2025 12:40:00	07/21/2025 13:09:40	BZG0832	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	8	2	5		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall - Grab	25G1349-03	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	6		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake - Grab	25G1349-04	Water	Water	07/15/2025 10:40:00	07/16/2025 13:52:00	07/17/2025 12:45:00	BZG0846	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake Grab	25G2495-01	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall Grab	25G2495-02	Water	Water	07/29/2025 09:00:00	07/31/2025 10:29:00	08/01/2025 17:05:00	BZG1573	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					TFW																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 12:45:40	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	22.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.2	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	327	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	70.9	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15600	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9650	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.4	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:02:00	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	103000	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.516	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0592	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.035	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.036	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.14	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.111	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.473	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:00:19	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	189000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 11:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	28100	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 16:01:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	190	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:06:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	2500	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:09:44	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	599	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:23:34	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64900	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	341000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	10	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:14:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Intake	25G2495-03	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:38:58	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/04/2025 09:42:00	08/04/2025 13:03:37	BZH0088	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	30.9	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	57.8	0.61	1.25		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.172	0.057	0.125		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	307	0.7	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	12.3	0.403	0.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14000	2.4	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8690	8.6	12.5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	BZG1487	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	8.7	4.2	5		mg/L	FALSE	NA	1					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:14:56	BZG1487	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	94900	343	500		mg/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.346	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.061	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0398	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.161	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.0672	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0852	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.431	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:23:00	07/31/2025 14:04:14	BZG1486	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	171000	180	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 12:56:00	BZG1485	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 10:49:00	07/30/2025 13:11:00	BZG1485	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	24900	247	500		mg/L	FALSE	NA	500					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 13:03:00	07/30/2025 17:03:00	BZG1516	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	166	0.5	1		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 13:43:00	07/31/2025 16:10:00	BZG1616	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 11:11:00	07/31/2025 16:59:04	BZG1590	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					EK																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/31/2025 09:56:00	07/31/2025 13:35:07	BZG1565	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	303	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:05:00	07/31/2025 10:32:12	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58600	11.7	33.1		mg/L	FALSE	NA	1					TM																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	08/01/2025 10:48:00	08/01/2025 10:50:00	BZH0034	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	305000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 12:15:00	07/30/2025 12:35:00	BZG1509	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	19	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:10:00	07/30/2025 15:16:00	BZG1494	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, Inc	Outfall	25G2495-04	Water	Water	07/29/2025 14:27:00	07/30/2025 11:25:00	08/04/2025 13:40:12	BZG1483	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	5	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H0713-01	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H0713-02	Water	Water	08/07/2025 07:30:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	64.1	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.19	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	310	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	74.8	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14700	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8900	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:28:50	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	91600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.588	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.153	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0367	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0316	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.143	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0239	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.698	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:11:22	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:06:35	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	184000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 12:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/14/2025 23:39:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	164	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:20:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1500	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 14:40:41	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	591	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:44:27	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	61400	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	351000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	7	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:48:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H0713-03	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:51:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	6	2	5		mg/L	FALSE	NA	1					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	60.4	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.175	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	299	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	1.04	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	9.33	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	14100	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	8400	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	BZH0453	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	7.5	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:31:26	BZH0453	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	86800	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.385	0.0044	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.0012	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.145	0.0062	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.044	0.0182	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.0087	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.221	0.0159	0.0175		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.122	0.0038	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0351	0.0112	0.0125		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.647	0.0141	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:46:00	08/11/2025 14:15:17	BZH0454	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 11:37:00	08/11/2025 17:11:51	BZH0475	Mercury (T) 245.1	EPA 245.1	Default Prep Hg	Mercury, Total	7439-97-6	FALSE	FALSE	ND	7E-05	0.0002		mg/L	FALSE	NA	1					LN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	174000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:13:00	08/08/2025 13:29:00	BZH0418	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26000	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/13/2025 11:15:00	08/15/2025 00:40:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	163	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 14:35:00	08/12/2025 14:24:00	BZH0486	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.004	0.005		mg/L	FALSE	NA	1					SMS																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 10:47:00	08/08/2025 15:22:16	BZH0398	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 11:36:00	08/08/2025 15:02:47	BZH0412	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	274	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 17:53:00	08/11/2025 12:58:10	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	58900	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/11/2025 15:24:00	08/11/2025 15:45:00	BZH0490	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	339000	1000	1000		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 14:22:00	08/08/2025 14:40:00	BZH0438	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	9	3	4		mg/L	FALSE	NA	1					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:31:00	08/08/2025 14:51:00	BZH0423	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H0713-04	Water	Water	08/07/2025 13:35:00	08/08/2025 12:40:00	08/13/2025 09:53:53	BZH0394	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	7	2	5		mg/L	FALSE	NA	1					DD																	1

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNC	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake Grab	25H1074-01	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall Grab	25H1074-02	Water	Water	08/12/2025 09:15:00	08/13/2025 11:46:00	08/14/2025 15:20:00	BZH0603	O&G	EPA 1664B	NO PREP	Oil & Grease (HEM)	CTF10169	FALSE	FALSE	ND	5	5		mg/L	FALSE	NA	1					HM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:15:00	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	23	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	1.9	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	65.5	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.195	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	325	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	68.7	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15400	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9140	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:20:09	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	104000	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.507	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0676	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0298	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.0339	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.142	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.0354	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.459	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:42:51	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	186000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 01:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	27800	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:01:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	177	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 13:43:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	1000	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:13:25	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	588	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:33:50	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	64100	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	363000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	16	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:12:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Intake	25H1074-03	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:08:58	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	ND	2	5		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/18/2025 10:00:00	08/18/2025 12:32:58	BZH0830	Mercury (T) 1631	EPA 1631	NO PREP	Mercury, Total	7439-97-6	FALSE	FALSE	27.8	9	20		ng/L	FALSE	NA	20					TM																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Al (T) 200.7	EPA 200.7	EPA 200.2	Aluminum, Total	7429-90-5	FALSE	FALSE	ND	1.2	1.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	B (T) 200.7	EPA 200.7	EPA 200.2	Boron, Total	7440-42-8	FALSE	FALSE	62.8	0.61	1.25		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ba (T) 200.7	EPA 200.7	EPA 200.2	Barium, Total	7440-39-3	FALSE	FALSE	0.182	0.057	0.125		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Ca (T) 200.7	EPA 200.7	EPA 200.2	Calcium, Total	7440-70-2	FALSE	FALSE	318	0.7	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Fe (T) 200.7	EPA 200.7	EPA 200.2	Iron, Total	7439-89-6	FALSE	FALSE	ND	0.57	0.75		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Li (T) 200.7	EPA 200.7	EPA 200.2	Lithium, Total	7439-93-2	FALSE	FALSE	16.1	0.403	0.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Mg (T) 200.7	EPA 200.7	EPA 200.2	Magnesium, Total	7439-95-4	FALSE	FALSE	15000	2.4	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	Potassium (T) 200.7	EPA 200.7	EPA 200.2	Potassium, Total	7440-09-7	FALSE	FALSE	9000	8.6	12.5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	BZH0653	SiO2 (T) 200.7	EPA 200.7	EPA 200.2	Silica, (as SiO2) Total	7631-86-9	FALSE	FALSE	6.7	4.2	5		mg/L	FALSE	NA	1					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:24:43	BZH0653	Sodium (T) 200.7	EPA 200.7	EPA 200.2	Sodium, Total	7440-23-5	FALSE	FALSE	92600	343	500		mg/L	FALSE	NA	20					AB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	As (T) 200.8	EPA 200.8	200.2	Arsenic, Total	7440-38-2	FALSE	FALSE	0.326	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cd (T) 200.8	EPA 200.8	200.2	Cadmium, Total	7440-43-9	FALSE	FALSE	ND	0.001	0.005		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cr (T) 200.8	EPA 200.8	200.2	Chromium, Total	7440-47-3	FALSE	FALSE	0.0619	0.006	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Cu (T) 200.8	EPA 200.8	200.2	Copper, Total	7440-50-8	FALSE	FALSE	0.0444	0.018	0.025		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Lead (T) 200.8	EPA 200.8	200.2	Lead, Total	7439-92-1	FALSE	FALSE	ND	0.009	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mn (T) 200.8	EPA 200.8	200.2	Manganese, Total	7439-96-5	FALSE	FALSE	0.166	0.016	0.018		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Mo (T) 200.8	EPA 200.8	200.2	Molybdenum, Total	7439-98-7	FALSE	FALSE	0.107	0.004	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Ni (T) 200.8	EPA 200.8	200.2	Nickel, Total	7440-02-0	FALSE	FALSE	0.027	0.011	0.013		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Se (T) 200.8	EPA 200.8	200.2	Selenium, Total	7782-49-2	FALSE	FALSE	0.436	0.014	0.015		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Silver (T) 200.8	EPA 200.8	200.2	Silver, Total	7440-22-4	FALSE	FALSE	ND	0.008	0.012		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:15:00	08/14/2025 14:46:46	BZH0654	Zn (T) 200.8	EPA 200.8	200.2	Zinc, Total	7440-66-6	FALSE	FALSE	ND	0.05	0.25		mg/L	FALSE	NA	1					AME																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Chloride (IC)	EPA 300.0	NO PREP	Chloride	16887-00-6	FALSE	FALSE	179000	180	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Nitrate	EPA 300.0	NO PREP	Nitrate as N	14797-55-8	FALSE	FALSE	ND	6.64	10		mg/L	FALSE	NA	100					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 15:46:00	08/14/2025 02:09:00	BZH0640	Sulfate (IC)	EPA 300.0	NO PREP	Sulfate	14808-79-8	FALSE	FALSE	26600	247	500		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:15:00	08/15/2025 01:21:00	BZH0595	Bromide (IC)	EPA 300.1	NO PREP	Bromide	24959-67-9	FALSE	FALSE	171	2.3	5		mg/L	FALSE	NA	500					DD																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/19/2025 11:32:00	08/19/2025 14:07:00	BZH0893	Cyanide, Total	EPA 335.4	EPA 9010C	Cyanide, Total	57-12-5	FALSE	FALSE	ND	0.022	0.03		mg/L	FALSE	NA	6					KC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/14/2025 07:18:00	08/14/2025 12:20:25	BZH0666	COD	Hach 8000	NO PREP	Chemical Oxygen Demand	CTF10049	FALSE	FALSE	ND	617	1000		mg/L	FALSE	NA	100					LLC																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Bicarbonate (as CaCO3)	71-52-3	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Carbonate (as CaCO3)	3812-32-6	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Hydroxide (as CaCO3)	14280-30-9	FALSE	FALSE	ND	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/15/2025 10:02:00	08/15/2025 12:32:51	BZH0746	Alkalinity (w/total)	SM 2320 B	NO PREP	Alkalinity - Total (as CaCO3)	CTF10279	FALSE	FALSE	290	0.2	1		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 16:17:00	08/14/2025 12:47:33	[CALC]	Hardness AP	SM 2340 B	[CALC]	Hardness, Total as CaCO3	471-34-1	FALSE	FALSE	62700	11.7	33.1		mg/L	FALSE	NA	1					AB																	0
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 10:37:00	08/13/2025 16:00:00	BZH0589	TDS	SM 2540 C	NO PREP	Total Dissolved Solids (TDS)	CTF10226	FALSE	FALSE	355000	1000	1000		mg/L	FALSE	NA	1					DAN																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 11:12:00	08/13/2025 11:36:00	BZH0593	TSS	SM 2540 D	NO PREP	Total Suspended Solids (TSS)	CTF10267	FALSE	FALSE	14	3	4		mg/L	FALSE	NA	1					CA																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 17:54:00	08/13/2025 18:14:00	BZH0659	DA - Nitrite	SM 4500 NO2-B	*** DEFAULT PREP ***	Nitrite as N	14797-65-0	FALSE	FALSE	ND	0.01	0.1		mg/L	FALSE	NA	1					RuB																	1
Lilac Solutions	Steve Morrey	Great Salt Lake DLE Pilot Plant	Chemtech-Ford, LLC	Outfall	25H1074-04	Water	Water	08/12/2025 14:19:00	08/13/2025 13:10:00	08/18/2025 12:12:09	BZH0586	BOD	SM 5210 B	NO PREP	Biochemical Oxygen Demand	CTF10003	FALSE	FALSE	9	2	5		mg/L	FALSE	NA	1					CA																	1

APPENDIX C

Biota Monitoring Report

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Microbial analyses at the Waterleaf Resources pilot plant, Great Salt Lake, Utah

This reports presents data from an analysis of the microbial communities in the brine flowing into the plant, "influent," and the post-extraction brine that is in a holding tank before being released back into the lake, "effluent." The research question at hand is: ***what is the impact of introducing post-extraction effluent into the Great Salt Lake north arm.*** This analysis includes microscopy, genomic surveys, and inoculation experiments to measure growth in the laboratory.

Sampling:

Influent and effluent samples were obtained at the Utah Waterleaf Lilac facility on February 28, April 24, and June 24, 2025 (Figure 1). At each timepoint, 100 ml each were collected for laboratory analysis.



Figure 1. Samples were taken from the north tank for influent brine (valve circled in yellow) and the south tank for effluent (valve circled in red).

In addition,100 ml of brine from each sample were filtered through a sterile PVDF membrane pressure filter unit, pore size 0.22 µm, which captures all the cells present in the microbial communities of the brine. The filters were used to extract DNA and create the sequencing libraries (Figure 2).



Figure 2. North arm brine from the influent tank and post-extraction effluent brine were filtered separately through a PVDF membrane cartridge to collect all cells in the sample. These filters were subsequently used to isolate DNA with a DNA extraction kit (QIAGEN, Venlo, Netherlands).

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Biomass:

The relative biomass of aquatic communities can be assessed by centrifuging at high speeds to force cells to the bottom of the tube. I centrifuged 1 ml of the influent (I) sample and 1 ml of the effluent (E) sample at each sampling. These tubes were allowed to dry for two days. The dry weight was measured. I was unable to do this properly at the February sampling since I did not see a cell pellet in the effluent, only rust flakes, which likely came from corrosion of the holding tank and affected the dry weight. The other samples, however, yielded reliable data, and there were no rust flakes present. The April influent pellet was 3.7 mg of dry mass per milliliter of brine, and the effluent pellet was 4.5 mg per milliliter. The June influent pellet was 5.2 mg of dry mass per milliliter of brine, and the effluent pellet was 4.2 mg per milliliter. All were pink in color, which indicated that halophilic bacteria, archaea, and/or algae (all of which contain carotenoid pigments) were present in abundance in both (Figure 3). ***This colorful cell pellet was a good sign that there was a healthy population in the effluent.***

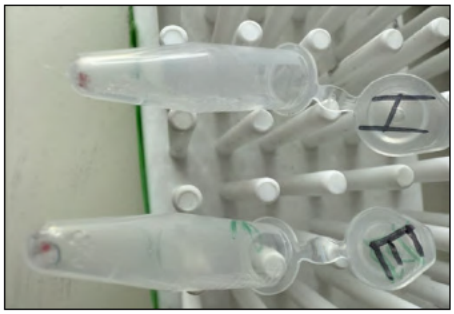


Figure 3. From the April samples, 1 ml of the influent (I) and effluent (E) were separately centrifuged to pellet the cells in the sample, which were both pink in color, indicating an abundance of halophiles (salt-tolerant bacteria and archaea have carotenoid pigments that make the cells pink).

Cell Counts:

Another way to assess biomass is to count the individual cells. Using a hemacytometer, which provides a grid and special cover glass to control the distributed volume, I estimated the cell density in each of the samples (e.g. Figure 4).

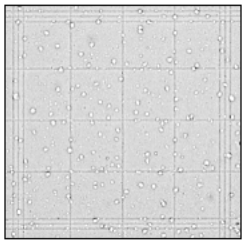


Figure 4. February influent sample on a hemacytometer. Note the grid that allows one to quantify the cells/ml. The cells are translucent but reflect light. They appear as small reflective orbs.

The results are shown in Table 1. The first samples from February demonstrated a robust cell density in the influent sample, but the effluent had very few if any visible cells. It's possible that the cell density was not zero, just low and not detectable by these methods. The April sampling had comparable numbers of cells in the effluent as the influent, the cells per milliliter counts were in the billions. The June samples also showed similar numbers for influent and effluent but higher cell counts.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Table 1. Cell counts by hemacytometer for each sampling

Sampling Date	Influent	Effluent
February 28, 2025	2 x 10^8 cells per ml	None detected, rust flakes present.
April 24, 2025	3.6 x 10^9 cells per ml	4.6 x 10^9 cells per ml
June 24, 2025	8.1 x 10^9 cells per ml	5.3 x 10^9 cells per ml

Note the values for April and June are higher at these warmer sampling times likely because the increased temperature supported microbial growth in the brine. The optimal temperature of GSL microorganisms is typically around the same as human cells, 37°C. ***Most importantly, the lithium extraction procedure did not reduce the cell count or have adverse effects on the cells.***

Given the intrusion of rust flakes and the results of the biomass and microscopy assays for the February sampling, I focused on the April and June samplings for addressing the question regarding impact on the extraction process on the microbial community.

Microbial Diversity:

In the GSL north arm, prior studies have revealed evidence for microorganisms in all three domains of life (Figure 5). The eukaryotes have nuclei and a higher-level organization; we typically see low levels of algae and fungi in the hypersaline brine. The prokaryotes have a simpler cell structure, such as salt thriving bacteria. The most prevalent domain in the north arm is archaea, which are abundant in all extreme environments on Earth (Baxter and Zalar, 2019; Ameida-Dalmet and Baxter, 2020).

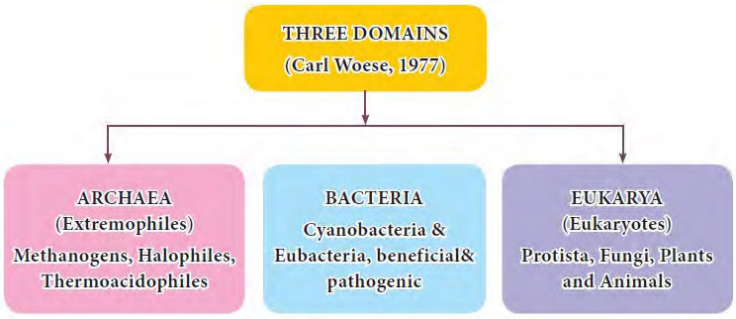


Figure 5. The three domains of life are all represented in the microbial diversity of Great Salt Lake.

To examine the microbial diversity of the influent and effluent, I wanted to sequence all the DNA from the onsite filtration described above. The microbial cells in the brine adhere to the sampling filters while the liquid is pumped through. After filtration, I froze the filters in a dry ice bath so that no degradation would occur, and the samples could be transported back to the lab for extraction. Under sterile conditions, the filter casings were cracked, and DNA was extracted from each membrane. This pool of DNA is derived from all of the life forms in the water sample. The next step is to figure out the species of life that are present. For this I used a consulting lab for

DNA sequencing. They amplify genes (16S rRNA, 18S rRNA, or ITS) associated with either bacteria, archaea, algae, or fungi. The DNA in the regions targeted is very specific, and this allows us to see "who" is present in the community and in what relative abundance. I analyzed the genetic data by first running a programming script that we developed in my lab to prune out any contaminants present in the controls and to connect to a taxonomic database to assign their phylogenetic classification. From here we can produce charts that help in visualizing the data.

Although the February effluent I analyzed did not seem to have cells (by microscopy nor a cell pellet), there were DNA signatures of microorganisms. This could be because the cells were in small numbers and therefore escaped the less sensitive methods, or it could be because there are biosignatures; the DNA from dead cells adhered to the filter but no intact cells did. A quick review of the prokaryotes in these samples indicate a similar community profile in the effluent when compared with the influent community e.g. the most prominent members of the community were common to both data sets.

The cell counts suggested that the April sampling would provide an excellent data set for sequencing analysis. I have confidence in the comparison between influent and effluent communities, and therefore, I have analyzed the April sample species composition below. The prokaryotes were split into bacteria and archaea for visual simplicity. The eukaryotic primers that would reveal algae species gave no hits (apart from plants that were blown in from the surrounding steppe), so there is no chart representing algae for April. We do know of two species that are present in the north arm, but in low numbers and only in warmer temperatures. Fungi require specific primers for reliable sequencing, so they were probed separately. Below I present the taxonomic profiles for each category of microorganisms. I have aligned the data for ease of comparison of the influent versus the effluent (Figure 6).

Archaea. Many of Earth's extremophiles fall in the category of Archaea, simple prokaryotes that look like bacteria but are genetically distinct. These make up the bulk of the Great Salt Lake north arm microbiota as shown in past studies (Baxter and Zalar, 2019; Almeida-Dalmet and Baxter, 2020). In this experiment, ***The difference between the Waterleaf influent and effluent genera present is negligible*** (Fig. 6, top panel).

Bacteria. In past work, because archaea are more typical in extreme environments, we were surprised to find robust bacterial communities at the north arm (Almeida-Dalmet and Baxter, 2020). ***In the Waterleaf samples, the bacterial genera present were also similar between the influent and effluent*** (Fig. 6, middle panel). Note the bacteria (and archaea) that are present in small abundance, towards the bottom of the graphics, are likely small in number because they prefer more moderate salinity and are introduced by the south arm water. The north arm salinity may suppress their growth.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Fungi. Recently my lab has explored the fungal species of the Great Salt Lake north arm (Parrott and Baxter, 2024). The Internal Transcribed Spacer (ITS) segment is widely used as a universal fungal barcode because of its variability between species. In the Waterleaf experiment, this marker revealed only a few species and different yeast taxa present in the influent and effluent (Fig. 6, bottom panel). Some of these species, in our prior study, have been associated with plants, soils or animals from the surrounding landscape. For example, *Alternaria* and *Cryptococcus* were discovered in the plant soil microbiomes Because the spores of fungi can become airborne, wind can introduce spores to the brine. ***The differences in the fungi present in the Waterleaf influent and effluent are likely not important with regards to the ecosystem since these species do not play a role in nutrient cycling.***

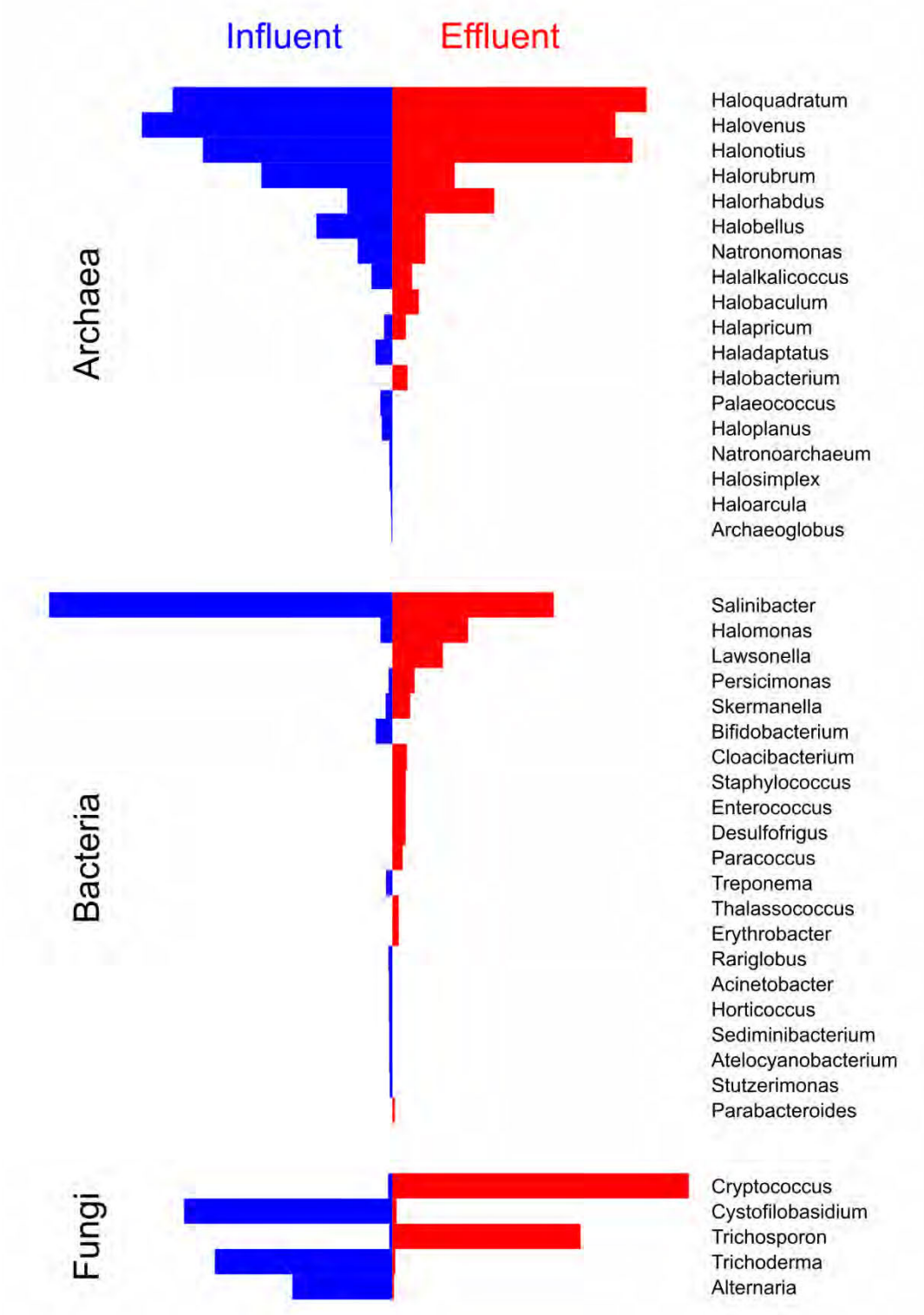


Figure 6. Microbial diversity charts for genera of archaea, bacteria, and fungi. The influent (blue) is shown on the left and effluent (red) on the right with species identity listed to the side. The size of the bars indicate relative abundance within each data set. The top panel shows the archaea community, the middle bacteria, and the bottom fungi.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Inoculation Experiment:

In order to probe more deeply into the potential impacts of discharging the effluent into the Great Salt Lake north arm, I performed a time course growth experiment, growing either influent, effluent, or a mixture. Optical density measurement at a light absorbance of 600nm (A_{600}) is a common methodology in microbiology for following growth of a culture over time (e.g. Stevenson et al. 2016). The cells absorb light at this wavelength, and so the concentration of microbes is proportional to the light absorbed. I used a spectrophotometer to measure the optical density over time, which allows us to see the growth curve of the population as the cells grow and divide. Since the initial levels of microorganisms are very low (and non-existent in the sterile water blank control), this is called the "lag phase." As the population starts to double rapidly, you can see logarithmic growth for some species "log phase." Beyond these phases, the bacterial population will stabilize and then decline. Figure 7 shows a standard growth curve for lab model microbes; we would expect slower growth in environmental organisms.

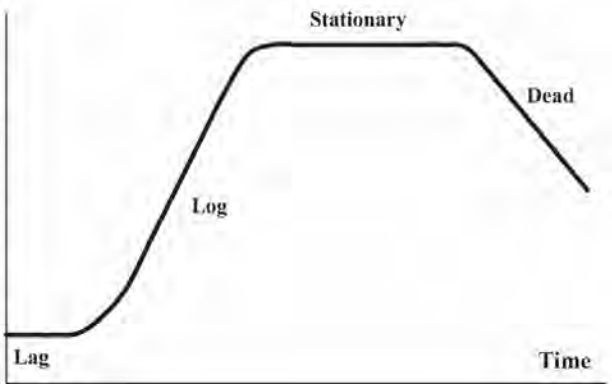


Figure 7. A textbook growth curve to show the expected phases of bacterial proliferation. My goal was to plot log phase in the samples and examine if introducing effluent to influent communities had an impact.

I attempted a couple of early trials to work out conditions, and this revealed that the experiment moved too slowly without growth media to enhance growth rates. The protocol that gave the best results for our timeframe was inoculating 9 ml of 23% salt MGM media (Dyall-Smith, 2025) with 1 ml of sample. The samples were 1) sterile deionized water serving as a control, 2) influent, 3) effluent, 4) a 50:50 mixture of effluent and influent. I did this experiment with brine from all three sampling dates. In each experiment, I used the control as a blank to set the optical density to zero. Thus, any absorbance observed was due to cells proliferating.

In Figure 8, the top panel shows growth curves featuring the February samples inoculated. The influent sample, which was rich in microorganisms, displays a typical growth curve, with a short lag phase, followed by fast growth, and then the beginnings of a plateau (orange line, top panel). The effluent (green line, top panel) by contrast, has delayed growth, but it does appear to have a low-density community that begins to take off albeit slowly. The mixture has a middle of the road growth curve (light blue line, top panel), which means that nothing in the effluent is inhibiting the growth of the microbes in the influent.

The middle panel of Figure 8 represents the growth curves of the April samples and the bottom panel is June. ***All of the samples from the April and June samplings follow a standard growth curve***. The microbial communities appear to have just reached stationary phase over this period of study. This is expected of healthy cultures. Also to note, ***mixing effluent and influent had no visible impact on growth***.

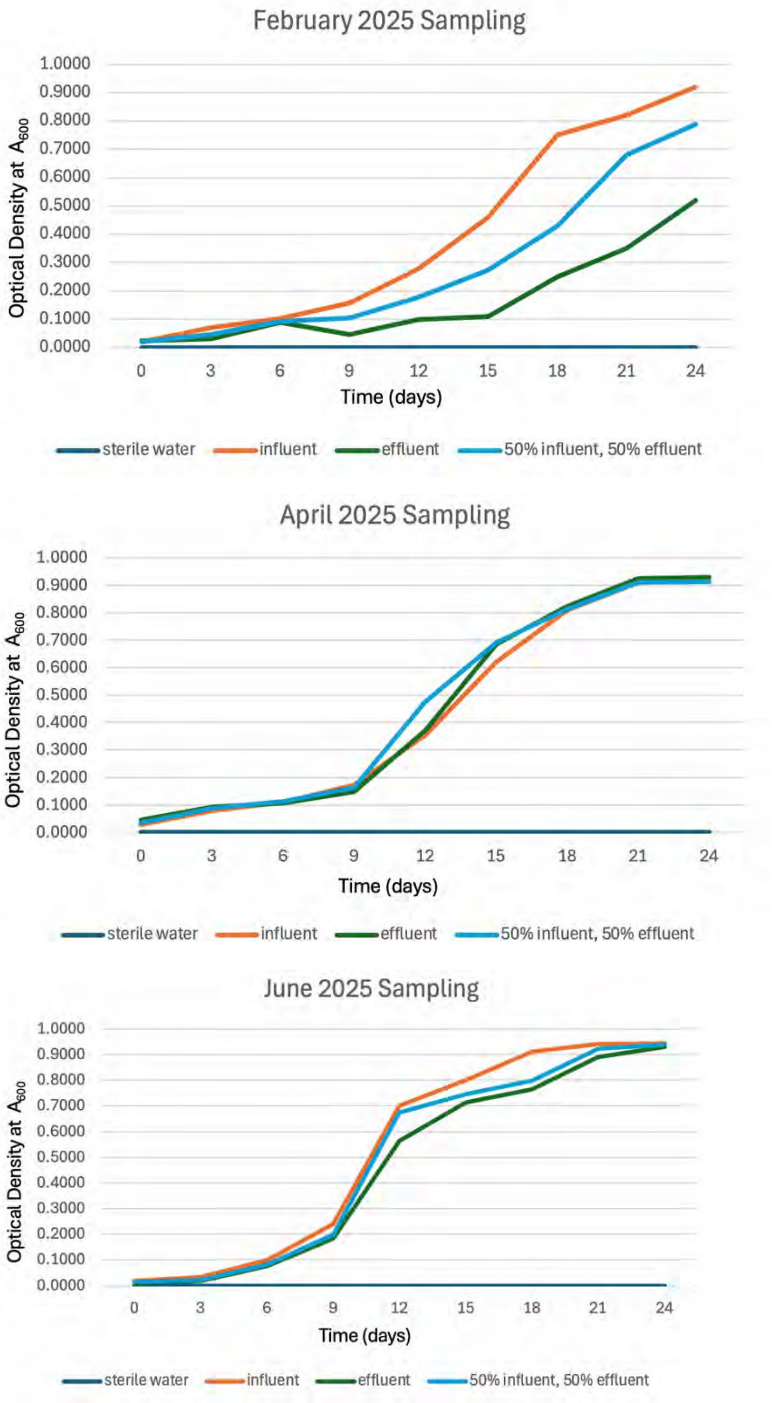


Figure 8. The top panel represents the February sampling at Waterleaf while the middle represents April and the bottom represents June. The sterile water inoculation control, dark blue, served as a blank for the optical density measurements at A600 and showed no contamination in the experiment. The influent samples are shown in orange, the effluent in green, and the 50:50 mixture in light blue.

Microbial Analysis Report
Bonnie K. Baxter, Ph.D.
July 28, 2025

Algae Experiments

In the February and April samples, there was no evidence for the presence of algae. I did not see the larger distinctive cells in the microscopy examinations nor the signature for them in the DNA sequencing for microbial diversity. This is not unusual as the main algae species of the north arm, *Dunaliella salina*, blooms in the warm summer months (Baxter and Zalar, 2019). These eukaryotes do photosynthesis for the lake, accumulate glycerol to balance the inside of the cell with the outside hypersaline water, and make pigments to mediate cellular damage from the extreme environment (Figure 9). Despite being a seasonal participant, they are a key player to supplying nutrients to the north arm microbial community.

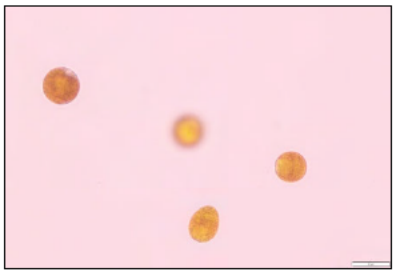


Figure 9. GSL north arm *Dunaliella salina*, a prevalent algae species in the summer months at Rozel. Beta carotene gives them the notable orangish color. A 20 micron scale bar is indicated in the lower right corner. Prokaryotes (bacteria and archaea) are typically only 1-2 microns, for comparison.

In the June sampling, I wanted to examine the impact of effluent on *Dunaliella salina* in the brine. For the DNA sequencing, I probed the broad categories of prokaryotes and eukaryotes. For this experiment, there is no need to distinguish between archaea and bacteria amongst the prokaryote signals and it was not important to track fungi separately amongst the eukaryotes. ***In future experiments for monitoring at this site, this streamlined approach would offer an option for routine checks.*** The results are shown in Figure 10.

The DNA sequencing surveys of the prokaryotes in the influent versus effluent shows the same pattern as before (Figure 6), making this a good control for standardization. The species distribution of the influent are preserved in similar abundances in the post-extraction effluent (Figure 10, top panel). These prokaryotes represent small archaea and bacteria, only ~1-2 microns, which are not filtered in the lithium extraction process. The *Dunaliella salina* algae are high in abundance in the influent as predicted for the summer season, but they are lacking in the effluent (Figure 10 bottom panel). ***These algae are much larger, ~10-20 microns, than the prokaryotes and were likely filtered in the early filtration step of the mineral extraction process.*** Note the small signal of *Dunaliella* in the effluent; this is likely from DNA released from dead cells in the environment, and these molecules would pass through filtration.

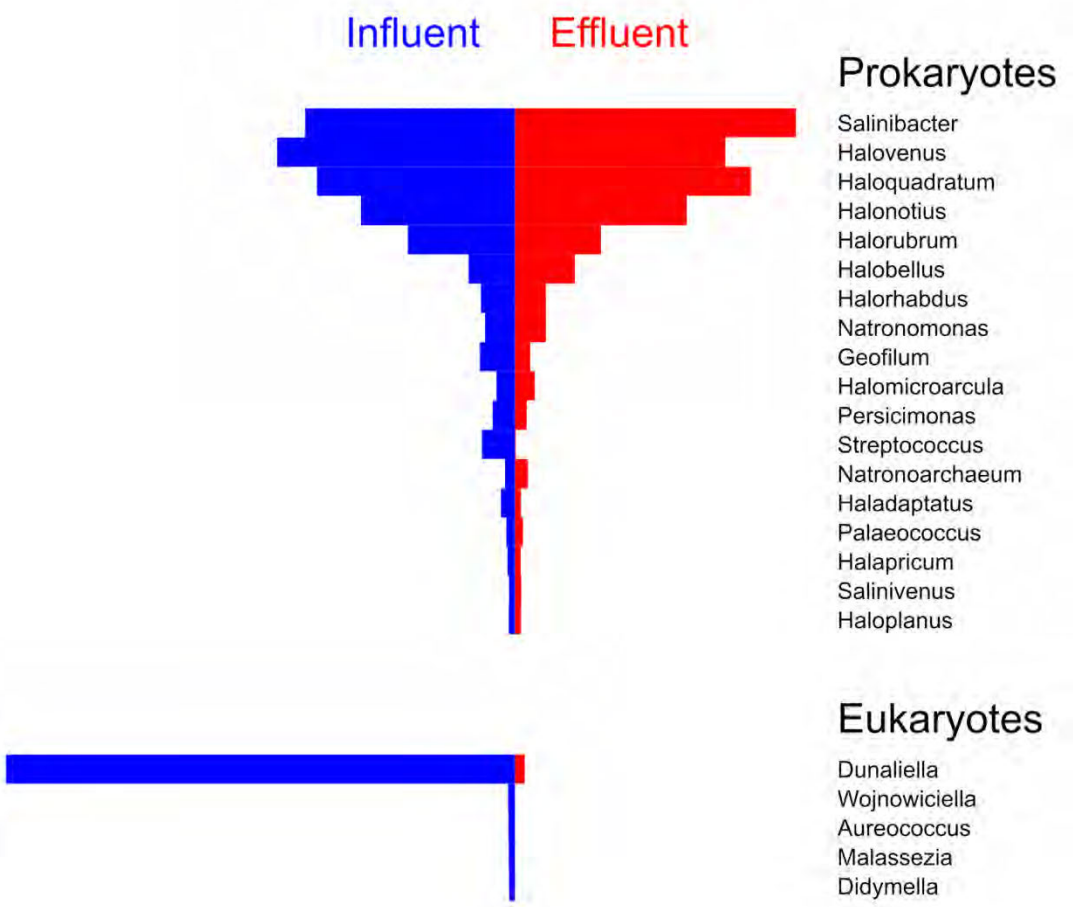


Figure 10. Most abundant taxa of prokaryotes (top panel) and eukaryotes (bottom panel). The influent consortia in shown in blue on the left, and the effluent in red on the right, and the bars represent relative abundance. June sampling for *Dunaliella salina* showed a robust biosignature for the algae in the eukaryotic profile of the influent (bottom). Unlike the smaller prokaryotes (~1-2 microns in size), the algae (~10-20 microns) are likely filtered out in the extraction process filtering step. The small signal for *Dunaliella* observed in the effluent is likely residual DNA from dead cells that passed through the filter.

Microbial Analysis Report

Bonnie K. Baxter, Ph.D.

July 28, 2025

Conclusions:

Is the extraction process changing the microbial community?

- The biomass analysis (Figure 3), cell counting (Table 1), and DNA sequencing (Figure 6 and 10) demonstrate that the extraction process is allowing prokaryotic microorganisms to remain in and survive in the effluent.
- The inoculation experiment (Figure 8) demonstrated that the effluent brine population is as healthy as the influent. There is no evidence of a longer lag time in the growth curves and they approach log phase at the same rate.
- The archaea and bacteria genera composition and abundance measures are remarkably similar between the influent and effluent (Figures 6 and 10), suggesting the survival/recovery of the microorganisms following the lithium extraction process.
- The fungi, however, have a different composition post extraction (Figure 6). There are only a few species that emerged in our study, but they are different in the influent versus the effluent. Since fungi have amazing dispersal mechanisms, the origin of the fungi we observed may have been introduced from the surrounding landscape, given the species present. There is no need to track fungi for surveying the health of the lake ecosystem.
- Algae were absent in both February and April samples, likely due to time of year. In the June sampling, the *Dunaliella salina* summer bloom was detected in the influent. However, filtration in the lithium extraction process appears to remove the *Dunaliella salina* as it is not present in the effluent (Figure 10).

Would the introduction of effluent to lake brine have impacts on the native biota?

- The inoculation experiment, where the influent and effluent are mixed 50:50, is a proxy for modeling the recovery of the microbial community after discharge. There is no evidence of negative impacts in the 50:50 mixed sample (Figure 8).
- Although the filtration step in the lithium extraction process may remove the *Dunaliella salina*, the absence of algae in the effluent should not be a problem when the effluent is discharged to the lake. The microbial community is not impacted by the introduction of effluent in the inoculation experiments (Figure 8).

Recommendations for future monitoring of the microbial communities:

- Fungal signatures are introduced from the environment and are not valuable for this study. Monitoring of fungi going forward is not necessary.
- Most of the microbial community in the north arm are mesophiles, meaning they are more prolific at moderately warm temperatures, optimal 20 to 45 °C (68 to 113 °F). Summer sampling is recommended for future monitoring efforts, and this approach would also allow you to see the bloom of *Dunaliella salina*.
- Continual monitoring the prokaryotes (the most prolific life forms) would give a nice benchmark for microbial commnunies surviving in the effluent. Any changes in process, scale up, or seasonal impacts could be followed over time.

References:

Almeida-Dalmet, S. and Baxter, B.K. 2020. Unexpected Complexity at Salinity Saturation: Microbial Diversity of the North Arm of Great Salt Lake. In Baxter, B.K. and Butler J.K., Eds. *Great Salt Lake Biology*. pp. 87-118. Springer, Cham.

Baxter, B.K. and Zalar, P., 2019. The extremophiles of Great Salt Lake: Complex microbiology in a dynamic hypersaline ecosystem. *Model Ecosystems in Extreme Environments*, pp.57-99.

Dyall-Smith, M. 2025. The HaloHandbook. https://haloarchaea.com/wp-content/uploads/2025/02/Halohandbook_2009_REV_v2.pdf (Accessed June 2, 2025).

Parrott Jr, D.L. and Baxter, B.K., 2024. Fungi of Great Salt Lake, Utah, USA: a spatial survey. *Frontiers in Fungal Biology*, *5*, p.1438347.

Stevenson, K., McVey, A.F., Clark, I.B., Swain, P.S. and Pilizota, T. 2016. General calibration of microbial growth in microplate readers. *Scientific Reports*, *6*(1), p.38828.

APPENDIX E

Federal and State Supporting Permits and Certifications

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO CA 95814-2922

December 29, 2025

Regulatory Division (SPK-2025-00525)

Waterleaf Resources
Attn: Mr. Steven Morrey
9350 150 E Suite #710
Sandy, Utah 84070-2715
steve.morrey@lilacsolutions.com

Dear Mr. Morrey:

We are responding to your September 3, 2025, pre-construction notification for a Department of the Army (DA) permit for the Waterleaf Resources GSL Lithium Extraction project. The project site is located on the Great Salt Lake's North Arm, Latitude 41.461297°, Longitude -112.692050°, Box Elder County, Utah.

Based on the information you provided to this office, the Waterleaf Resources GSL Lithium Extraction project involves the discharge of fill material into 0.11 acre of waters of the U.S. for the construction of a water pipeline and intake and outfall system, subject to Section 404 of the Clean Water Act. The specific activities that require DA authorization is the intake system consisting of four centrifugal pumps positioned along two pipelines with intake/outfalls, approximately 4,000 to 7,000 linear feet from upland-based processing plant site. These activities will result in permanent effects to 0.04 acre (1,564 square feet) of Great Salt Lake (GSL) and temporary impacts to 0.07 acre (2,907 square feet) of Great Salt Lake. The proposed activities would be conducted in accordance with the Lilac Pipeline Site plans dated March 12, 2025.

We have determined that activities in waters of the U.S. associated with the project are authorized by Nationwide Permit Number (NWP) 58, Utility Line Activities for Water and Other Substances. You must comply with all terms and conditions of the NWP and applicable regional conditions. Enclosed is information about the NWP 58 terms and conditions (Enclosure 3) and Sacramento District regional conditions (Enclosure 4). In addition, your work must comply with the following special conditions:

1. You shall comply with all terms and conditions of the enclosed December 8, 2020, Section 401 Water Quality Certification (Enclosure 5).

Within **30 days** after completion of the authorized work, you must sign the enclosed Compliance Certification and return it to this office (Enclosure 6)**.**

This verification is valid until **March 14, 2026**, when the existing NWPs are scheduled to be modified, reissued, or revoked. Furthermore, if you commence or are under contract to commence this activity before the date the NWP is modified, reissued, or revoked, you will have **12 months** from the date of the modification, reissuance or revocation to complete the activity under the present terms and conditions. Failure to comply with the general and regional conditions of this NWP, or the project-specific special conditions of this authorization, may result in the suspension or revocation of your authorization.

We would appreciate your feedback on this permit action including your interaction with our staff and processes. For more information about our program or to complete our Regulatory Program national customer service survey, visit our website at www.spk.usace.army.mil/Missions/Regulatory.aspx.

Please refer to identification number SPK-2025-00525 in any correspondence concerning this project. If you have any questions, please contact Trevon Stephens at Utah Regulatory Field Office, 523 Heritage Park Blvd, Suite 1, Layton Utah 84041-5611, by email at *Trevon.W.Stephens@usace.army.mil*, or telephone at 385-303-9442.

Sincerely,



Jason Gipson
Chief, Utah Section

Enclosures

COMPLIANCE CERTIFICATION

Permit File Name: Waterleaf Resources GSL Lithium Extraction

Action ID: SPK-2025-00525

Nationwide Permit Number:

Permittee: Waterleaf Resources
Attn: Mr. Steven Morrey
9350 150 E Suite #710
Sandy, Utah 84070-2715

County: Box Elder County

Date of Verification: December 29, 2025

Within 30 days after completion of the activity authorized by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
Sacramento District
Utah Regulatory Field Office
523 Heritage Park Blvd, Suite 1
Layton, Utah 84041-5611
SPKRegulatoryMailbox@usace.army.mil

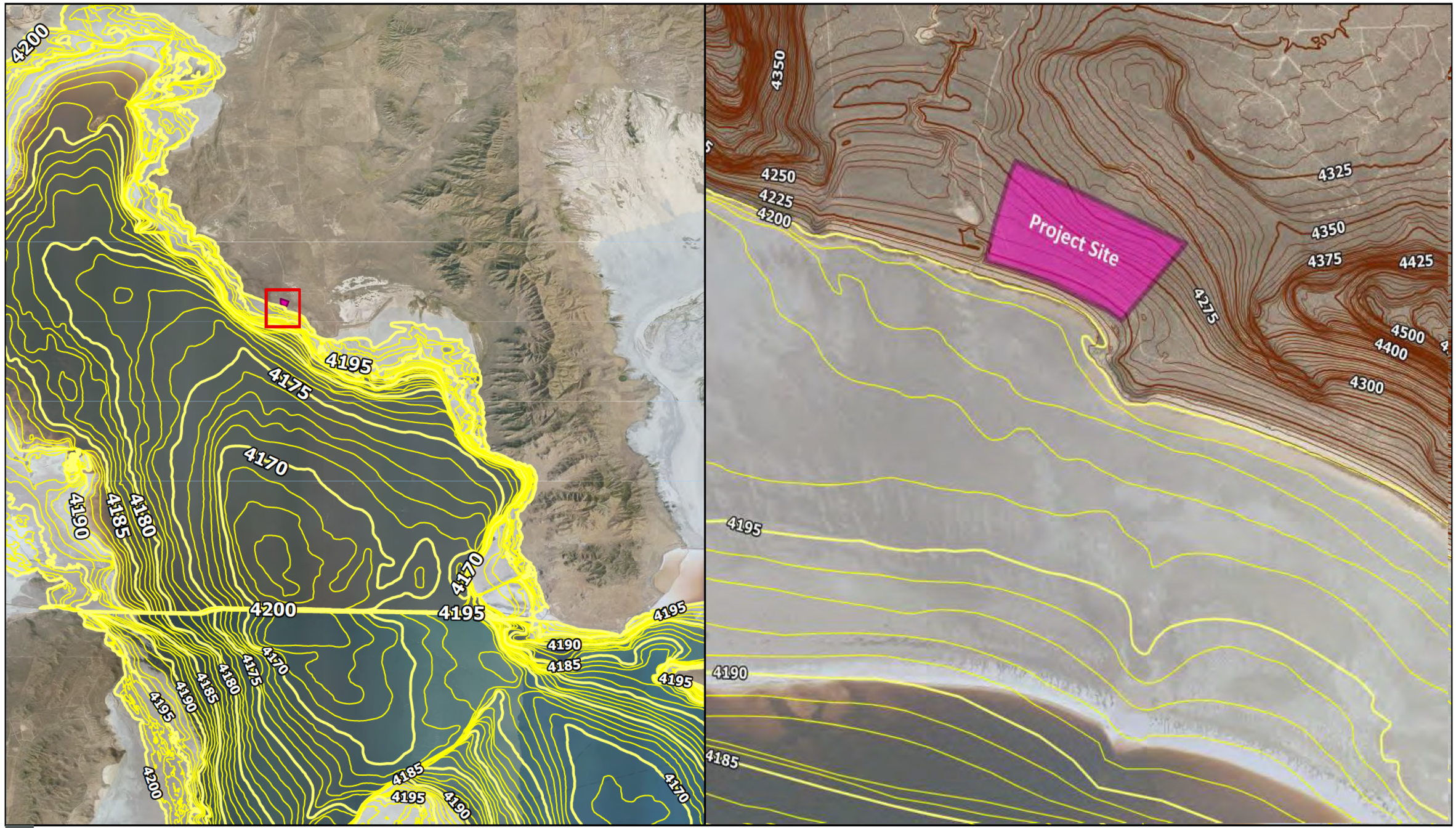
Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of the permit your authorization may be suspended, modified, or revoked. If you have any questions about this certification, please contact the U.S. Army Corps of Engineers.

* * * * * * * * *

I hereby certify that the work authorized by the above-referenced permit, including all the required mitigation, was completed in accordance with the terms and conditions of the permit verification.

Permittee Signature _____ Date _____

Enclosure 6



Alternative Lease Sites

Land Contour 5ft

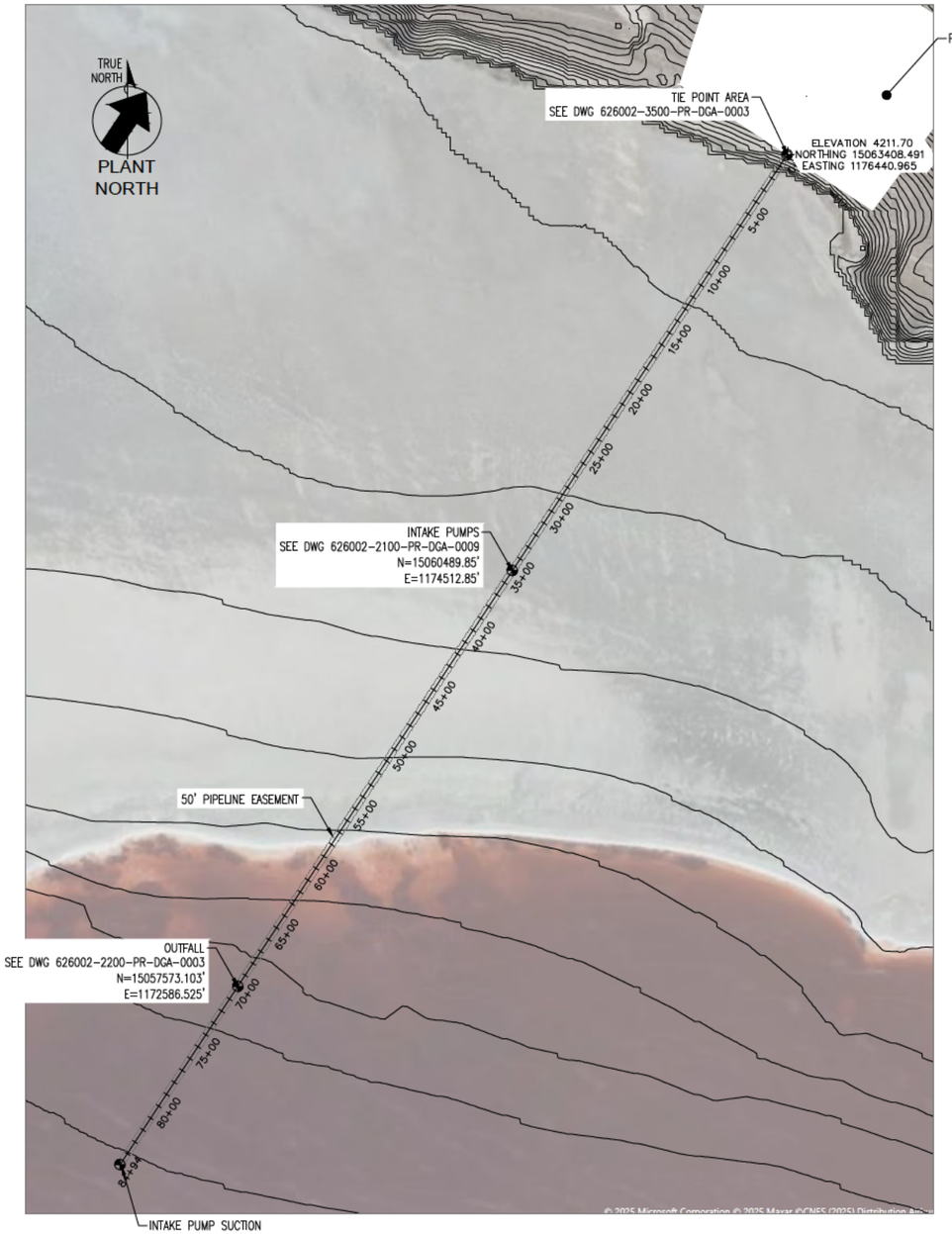
Bathymetric Contours

0 9 mi

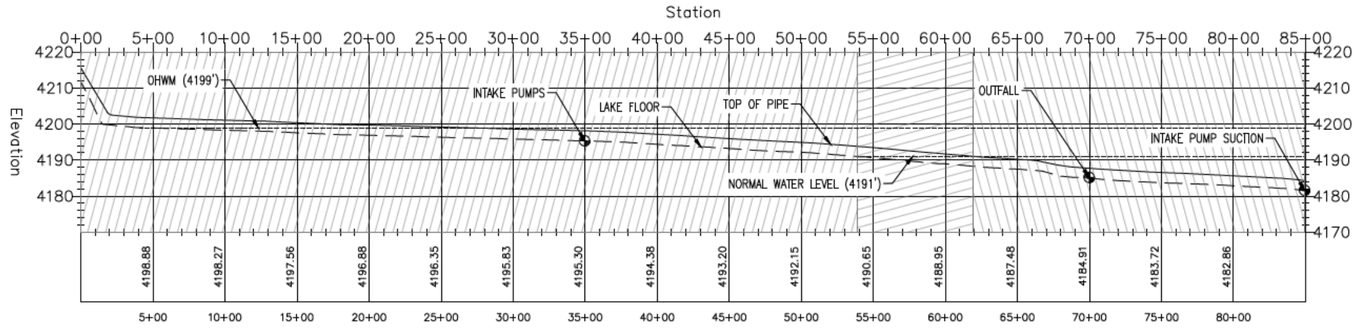
0 0.5 mi

PROJECT GECKO - INTAKE / OUTFALL STUDY

Project Location Map



PIPELINE ALIGNMENT
SCALE: 1"=500'



ALIGNMENT PROFILE

ZONE 1
ZONE 2
ZONE 3

0 250' 500' 1000'
SCALE: 1"= 500'-0"

NOTE:
1. COORDINATE SYSTEM: NAD_1983_UTM_ZONE_12N.

PRELIMINARY | NOT FOR CNST

CONFIDENTIAL

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PROFESSIONAL ENG. STAMP

NO	DESCRIPTION	BY	CHK	DATE
C	ISSUED FOR REVIEW	JBA	RS	11/3/25
B	ISSUED FOR REVIEW	JBA	RS	7/28/25
A	ISSUED FOR REVIEW	JBA	RS	3/12/25

REVISION HISTORY

ROLE	NAME	INITIALS	DATE
DRAFTSMAN	ANDERSON	JBA	3/12/25
DESIGNER	ANDERSON	JBA	3/12/25
CHECKER			
DESIGN COORD.			
RESP. ENG.			
LEAD DISC. ENG.			
PROJ. ENGINEER			
PROJ. MANAGER			

DRAWING APPROVAL STATUS: PRELIMINARY

Waterleaf RESOURCES

PROJECT: GSL PH1
UTAH
U.S.A

TITLE: LILAC
PIPELINE SITE PLAN
GENERAL ARRANGEMENT

SCALE: NTS OR AS NOTED

DWG. NO. 626002-2100-GE-DPP-0013

REV: C

FILE PATH: L:_DWGS\LIL626 LILAC SOLUTIONS\LILAC GSL\201 DRAWINGS\201.04 GAS\626002-2100-GE-DPP-0013.DWG PLOT DATE: 11/3/2025 1:08 PM

U S Army Corps of Engineers
Sacramento District

2021 Nationwide Permit Summary

33 CFR Part 330; Issuance of Nationwide Permits – March 15, 2021

58. Utility Line Activities for Water and Other Substances. Activities required for the construction, maintenance, repair, and removal of utility lines for water and other substances, excluding oil, natural gas, products derived from oil or natural gas, and electricity. Oil or natural gas pipeline activities or electric utility line and telecommunications activities may be authorized by NWPs 12 or 57, respectively. This NWP also authorizes associated utility line facilities in waters of the United States, provided the activity does not result in the loss of greater than 1/2-acre of waters of the United States for each single and complete project.

Utility lines: This NWP authorizes discharges of dredged or fill material into waters of the United States and structures or work in navigable waters for crossings of those waters associated with the construction, maintenance, or repair of utility lines for water and other substances, including outfall and intake structures. There must be no change in pre-construction contours of waters of the United States. A "utility line" is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose that is not oil, natural gas, or petrochemicals. Examples of activities authorized by this NWP include utility lines that convey water, sewage, stormwater, wastewater, brine, irrigation water, and industrial products that are not petrochemicals. The term "utility line" does not include activities that drain a water of the United States, such as drainage tile or french drains, but it does apply to pipes conveying drainage from another area.

Material resulting from trench excavation may be temporarily sidecast into waters of the United States for no more than three months, provided the material is not placed in such a manner that it is dispersed by currents or other forces. The district engineer may extend the period of temporary side casting for no more than a total of 180 days, where appropriate. In wetlands, the top 6 to 12 inches of the trench should normally be backfilled with topsoil from the trench. The trench cannot be constructed or backfilled in such a manner as to drain waters of the United States (e.g., backfilling with extensive gravel layers, creating a french drain effect). Any exposed slopes and stream banks must be stabilized immediately upon completion of the utility line crossing of each waterbody.

Utility line substations: This NWP authorizes the construction, maintenance, or expansion of substation facilities associated with a utility line in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not result in the loss of greater than 1/2-acre of waters of the United States. This NWP does not authorize discharges of dredged or fill material into non-tidal wetlands adjacent to tidal waters of the United States to construct, maintain, or expand substation facilities.

Foundations for above-ground utility lines: This NWP authorizes the construction or maintenance of foundations for above-ground utility lines in all waters of the United States, provided the foundations are the minimum size necessary.

Access roads: This NWP authorizes the construction of access roads for the construction and maintenance of utility lines, including utility line substations, in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not cause the loss of greater than 1/2-acre of non-tidal waters of the United States. This NWP does not authorize discharges of dredged or fill material into non-tidal wetlands adjacent to tidal waters for access roads. Access roads must be the minimum width necessary (see Note 2, below). Access roads must be constructed so that the length of the road minimizes any adverse effects on waters of the United States and must be as near as possible to pre-construction contours and elevations (e.g., at grade corduroy roads or geotextile/gravel roads). Access roads constructed above pre-construction contours and elevations in waters of the United States must be properly bridged or culverted to maintain surface flows.

This NWP may authorize utility lines in or affecting navigable waters of the United States even if there is no associated discharge of dredged or fill material (see 33 CFR part 322). Overhead utility lines constructed over section 10 waters and utility lines that are routed in or under section 10 waters without a discharge of dredged or fill material require a section 10 permit.

This NWP authorizes, to the extent that Department of the Army authorization is required, temporary structures, fills, and work necessary for the remediation of inadvertent returns of drilling fluids to waters of the United States through sub-soil fissures or fractures that might occur during horizontal directional drilling activities conducted for the purpose of installing or replacing utility lines. These remediation activities must be done as soon as practicable, to restore the affected waterbody. District engineers may add special conditions to this NWP to require a remediation plan for addressing inadvertent returns of drilling fluids to waters of the United States during horizontal directional drilling activities conducted for the purpose of installing or replacing utility lines.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the utility line activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the

maximum extent practicable, when temporary structures, work, and discharges of dredged or fill material, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if:

(1) a section 10 permit is required; or

(2) the discharge will result in the loss of greater than 1/10-acre of waters of the United States. (See general condition 32.) (Authorities: Sections 10 and 404)

Note 1: Where the utility line is constructed, installed, or maintained in navigable waters of the United States (i.e., section 10 waters) within the coastal United States, the Great Lakes, and United States territories, a copy of the NWP verification will be sent by the Corps to the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), for charting the utility line to protect navigation.

Note 2: For utility line activities crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Utility line activities must comply with 33 CFR 330.6(d).

Note 3: Access roads used for both construction and maintenance may be authorized, provided they meet the terms and conditions of this NWP. Access roads used solely for construction of the utility line must be removed upon completion of the work, in accordance with the requirements for temporary fills.

Note 4: Pipes or pipelines used to transport gaseous, liquid, liquescent, or slurry substances over navigable waters of the United States are considered to be bridges, not utility lines, and may require a permit from the U.S. Coast Guard pursuant to the General Bridge Act of 1946. However, any discharges of dredged or fill material into waters of the United States associated with such pipelines will require a section 404 permit (see NWP 15).

Note 5: This NWP authorizes utility line maintenance and repair activities that do not qualify for the Clean Water Act section 404(f) exemption for maintenance of currently serviceable fills or fill structures.

Note 6: For activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b)(4) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, “District Engineer’s Decision.” The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).

A. **2021 Regional Conditions**

1. **Regional Conditions for California**
2. **Regional Conditions for Nevada and Utah**

B. **2021 Nationwide Permit General Conditions**

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

☐ 1. **Navigation**.

☐ (a) No activity may cause more than a minimal adverse effect on navigation.

☐ (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

☐ (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his or her authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

☐ 2. **Aquatic Life Movements**. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used,

then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

☐ 3. **Spawning Areas**. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

☐ 4. **Migratory Bird Breeding Areas**. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

☐ 5. **Shellfish Beds**. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

☐ 6. **Suitable Material**. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

☐ 7. **Water Supply Intakes**. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

☐ 8. **Adverse Effects From Impoundments**. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

☐ 9. **Management of Water Flows**. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

☐ 10. **Fills Within 100-Year Floodplains**. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

☐ 11. **Equipment**. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

☐ 12. **Soil Erosion and Sediment Controls**. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

☐ 13. **Removal of Temporary Fills**. Temporary structures must be removed, to the maximum extent practicable, after their use has been discontinued. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

☐ 14. **Proper Maintenance**. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

☐ 15. **Single and Complete Project**. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

☐ 16. **Wild and Scenic Rivers**.

☐ (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

☐ (b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. Permittees shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

☐ (c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: https://www.rivers.gov/.

☐ 17. **Tribal Rights**. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

☐ 18. **Endangered Species**.

☐ (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify designated critical habitat or critical habitat proposed for such designation. No activity is authorized under any NWP which "may affect" a listed species or critical

habitat, unless ESA section 7 consultation addressing the consequences of the proposed activity on listed species or critical habitat has been completed. See 50 CFR 402.02 for the definition of “effects of the action” for the purposes of ESA section 7 consultation, as well as 50 CFR 402.17, which provides further explanation under ESA section 7 regarding “activities that are reasonably certain to occur” and “consequences caused by the proposed action.”

☐ (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA (see 33 CFR 330.4(f)(1)). If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

☐ (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat or critical habitat proposed for such designation, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation), the pre-construction notification must include the name(s) of the endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or that utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. For activities where the non-Federal applicant has identified listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have “no effect” on listed species (or species proposed for listing or designated critical habitat (or critical habitat proposed for such designation), or until ESA section 7 consultation or conference has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

☐ (d) As a result of formal or informal consultation or conference with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs.

☐ (e) Authorization of an activity by an NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take” provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

☐ (f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

☐ (g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at https://www.fws.gov/ or https://www.fws.gov/ipac/ and https://www.fisheries.noaa.gov/topic/endangered-species-conservation respectively.

☐ 19. **Migratory Birds and Bald and Golden Eagles**. The permittee is responsible for ensuring that an action authorized by an NWP complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine what measures, if any, are necessary or appropriate to reduce adverse effects to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird

Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

☐ 20. **Historic Properties**.

☐ (a) No activity is authorized under any NWP which may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

☐ (b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)(1)). If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

☐ (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts commensurate with potential impacts, which may include background research, consultation, oral history interviews, sample field investigation, and/or field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect.

☐ (d) Where the non-Federal applicant has identified historic properties on which the proposed NWP activity might have the potential to cause effects and has so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

☐ (e) Prospective permittees should be aware that section 110(k) of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

☐ 21. **Discovery of Previously Unknown Remains and Artifacts**. Permittees that discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by an NWP, they must immediately notify the district engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

☐ 22. **Designated Critical Resource Waters**. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and

opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

☐ (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

☐ (b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed by permittees in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after she or he determines that the impacts to the critical resource waters will be no more than minimal.

☐ 23. **Mitigation**. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

☐ (a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

☐ (b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

☐ (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

☐ (d) Compensatory mitigation at a minimum one-for-one ratio will be required for all losses of stream bed that exceed 3/100-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. This compensatory mitigation requirement may be satisfied through the restoration or enhancement of riparian areas next to streams in accordance with paragraph (e) of this general condition. For losses of stream bed of 3/100-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

☐ (e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. If restoring riparian areas involves planting vegetation, only native species should be planted. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

☐ (f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

☐ (1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

☐ (2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse

environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f).)

☐ (3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

☐ (4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). If permittee-responsible mitigation is the proposed option, and the proposed compensatory mitigation site is located on land in which another federal agency holds an easement, the district engineer will coordinate with that federal agency to determine if proposed compensatory mitigation project is compatible with the terms of the easement.

☐ (5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan needs to address only the baseline conditions at the impact site and the number of credits to be provided (see 33 CFR 332.4(c)(1)(ii)).

☐ (6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

☐ (g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

☐ (h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

☐ (i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

☐ 24. **Safety of Impoundment Structures**. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state or federal, dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

☐ 25. **Water Quality**.

☐ (a) Where the certifying authority (state, authorized tribe, or EPA, as appropriate) has not previously certified compliance of an NWP with CWA section 401, a CWA section 401 water quality certification for the proposed discharge must be obtained or waived (see 33 CFR 330.4(c)). If the permittee cannot comply with all of the conditions of a water quality certification previously issued by certifying authority for the issuance of the NWP, then the permittee must obtain a water quality certification or waiver for the proposed discharge in order for the activity to be authorized by an NWP.

☐ (b) If the NWP activity requires pre-construction notification and the certifying authority has not previously certified compliance of an NWP with CWA section 401, the proposed discharge is not authorized by an NWP until water quality certification is obtained or waived. If the certifying authority issues a water quality certification for the proposed discharge, the permittee must submit a copy of the certification to the district engineer. The discharge is not authorized by an NWP until the district engineer has notified the permittee that the water quality certification requirement has been satisfied by the issuance of a water quality certification or a waiver.

☐ (c) The district engineer or certifying authority may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

☐ 26. **Coastal Zone Management**. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). If the permittee cannot comply with all of the conditions of a

coastal zone management consistency concurrence previously issued by the state, then the permittee must obtain an individual coastal zone management consistency concurrence or presumption of concurrence in order for the activity to be authorized by an NWP. The district engineer or a state may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

☐ 27. **Regional and Case-By-Case Conditions**. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its CWA section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

☐ 28. **Use of Multiple Nationwide Permits**. The use of more than one NWP for a single and complete project is authorized, subject to the following restrictions:

☐ (a) If only one of the NWPs used to authorize the single and complete project has a specified acreage limit, the acreage loss of waters of the United States cannot exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1⁄3-acre.

☐ (b) If one or more of the NWPs used to authorize the single and complete project has specified acreage limits, the acreage loss of waters of the United States authorized by those NWPs cannot exceed their respective specified acreage limits. For example, if a commercial development is constructed under NWP 39, and the single and complete project includes the filling of an upland ditch authorized by NWP 46, the maximum acreage loss of waters of the United States for the commercial development under NWP 39 cannot exceed 1/2-acre, and the total acreage loss of waters of United States due to the NWP 39 and 46 activities cannot exceed 1 acre.

☐ 29. **Transfer of Nationwide Permit Verifications**. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____

(Transferee)

_____

(Date)

☐ 30. **Compliance Certification**. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

☐ (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

☐ (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

☐ (c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

☐ 31. **Activities Affecting Structures or Works Built by the United States**. If an NWP activity also requires review by, or permission from, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

☐ 32. **Pre-Construction Notification**.

☐ (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district

engineer. The prospective permittee shall not begin the activity until either:

☐ (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

☐ (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

☐ (b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

☐ (1) Name, address and telephone numbers of the prospective permittee;

☐ (2) Location of the proposed activity;

☐ (3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

☐ (4)

☐ (i) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures.

☐ (ii) For linear projects where one or more single and complete crossings require pre-construction notification, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters (including those single and complete crossings authorized by an NWP but do not require PCNs). This information will be used by the district engineer to evaluate the cumulative adverse environmental effects of the proposed linear project and does not change those non-PCN NWP activities into NWP PCNs.

☐ (iii) Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

☐ (5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial and intermittent streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

☐ (6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

☐ (7) For non-federal permittees, if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or is in the vicinity of

the activity, or if the activity is located in designated critical habitat (or critical habitat proposed for such designation), the PCN must include the name(s) of those endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

☐ (8) For non-federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

☐ (9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

☐ (10) For an NWP activity that requires permission from, or review by, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from, or review by, the Corps office having jurisdiction over that USACE project.

☐ (c) Form of Pre-Construction Notification: The nationwide permit pre-construction notification form (Form ENG 6082) should be used for NWP PCNs. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

☐ (d) Agency Coordination:

☐ (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

☐ (2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iii) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

☐ (3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure that the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life, or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

☐ (4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

☐ (5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

C. **2021 District Engineer's Decision**

☐ 1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the single and complete crossings of waters of the United States that require PCNs to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings of waters of the United States authorized by an NWP. If an applicant requests a waiver of an applicable limit, as provided for in NWPs 13, 36, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects.

☐ 2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by an NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects' determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

☐ 3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters. The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure that the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

☐ 4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

D. **2021 Further Information**

1. District engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

E. **2021 Nationwide Permit Definitions**

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term "discharge" means any discharge of dredged or fill material into waters of the United States.

Ecological reference: A model used to plan and design an aquatic habitat and riparian area restoration, enhancement, or establishment activity under NWP 27. An ecological reference may be based on the structure, functions, and dynamics of an aquatic habitat type or a riparian area type that currently exists in the region where the proposed NWP 27 activity is located. Alternatively, an ecological reference may be based on a conceptual model for the aquatic habitat type or riparian area type to be restored, enhanced, or established as a result of the proposed NWP 27 activity. An ecological reference takes into account the range of variation of the aquatic habitat type or riparian area type in the region.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s) but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

High Tide Line: The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps Regulatory Program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance but are still reasonably foreseeable.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. The loss of stream bed includes the acres of stream bed that are permanently adversely affected by filling or excavation because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters or wetlands for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities that do not require Department of the Army authorization, such as activities eligible for exemptions under section 404(f) of the Clean Water Act, are not considered when calculating the loss of waters of the United States.

Navigable waters: Waters subject to section 10 of the Rivers and Harbors Act of 1899. These waters are defined at 33 CFR part 329.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high-water mark can be determined. Aquatic vegetation within the area of flowing or standing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open

waters. Examples of "open waters" include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Perennial stream: A perennial stream has surface water flowing continuously year-round during a typical year.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required, and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands next to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23).

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term "single and complete project" is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of "independent utility"). Single and complete non-linear projects may not be "piecemealed" to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high-water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the

ordinary high-water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized jurisdictional stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a jurisdictional wetland that is inundated by tidal waters. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channel ward of the high tide line.

Tribal lands: Any lands title to which is either: 1) held in trust by the United States for the benefit of any Indian tribe or individual; or 2) held by any Indian tribe or individual subject to restrictions by the United States against alienation.

Tribal rights: Those rights legally accruing to a tribe or tribes by virtue of inherent sovereign authority, unextinguished aboriginal title, treaty, statute, judicial decisions, executive order or agreement, and that give rise to legally enforceable remedies.

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWPs, a waterbody is a "water of the United States." If a wetland is adjacent to a waterbody determined to be a water of the United States, that waterbody and any adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)).

Final 2021 Nationwide Permit (NWP) Regional Conditions for the States of Nevada and Utah

(NWPs 12, 21, 29, 39, 40, 42-44, 48, 50-52, and 55-58, Effective March 15, 2021 until March 15, 2026)

A. Regional Conditions for the States of Nevada and Utah:

1. The permittee shall submit a pre-construction notification (PCN) for all 2021 NWPs, in accordance with General Condition 32, in the following circumstances:

a. Activities involving new bank stabilization that do not incorporate bioengineering techniques. Bioengineering techniques include using live plants alone or in combination with dead or inorganic materials, including rock, sand, or gravel;

b. Activities resulting in a discharge of dredged or fill material in waters of the U.S. (WOTUS) on Tribal Lands; and,

c. Activities involving the permanent channelization, realignment, or relocation of streams.

2. The use of any 2021 NWP is prohibited for the following:

a. Activities in peatlands[1] containing histosols, including bogs and fens; and,

b. Discharges of dredged and/or fill material below the ordinary high water mark of the Great Salt Lake containing bioherms (microbialites).

B. 401 Water Quality Certification (401 WQC) Regional Conditions for Nevada:

1. The following conditions from the attached December 11, 2020, 401 WQC granted by the U.S. Environmental Protection Agency (EPA), shall apply to NWP 43 on tribal lands within U.S. EPA Region 9[2] boundaries in the State of Nevada:

a. All applicants must provide notice to EPA Region 9 prior to commencing construction to provide EPA Region 9 with the opportunity to inspect the activity for the purposes of determining whether any discharge from the proposed project will violate this water quality

[1]A peatland is defined as a wetland with saturated organic soil (greater than or equal to 16 inches in thickness) that is classified as a histosol in the Natural Resources Conservation Service (NRCS) Field Indicators of Hydric Soils in the United States (Version 8.0, 2016). A copy of the document can be obtained from the NRCS at: http://www.nrcs.usda.gov/Internet/_DOCUMENTS/nrcs142p2_053171.pdf

[2]The EPA 401 WQC does not apply to activities proceeding in the territories of the 23 tribes in Region 9 that have been approved as Section 401 certifying authorities —the Navajo Nation, Hualapai Tribe, Paiute-Shoshone of the Bishop Community, Big Pine Paiute-Shoshone Tribe, Twenty-Nine Palms Band of Mission Indians, Hoopa Valley Tribe, Hopi Tribe, Pyramid Lake Paiute Tribe, Dry Creek Rancheria of Pomo Indians, Pala Band of Mission Indians, Cortina Band of Wintun Indians, Walker River Paiute Tribe, Yerington Paiute, Duck Valley, Confederated Tribes of the Goshute Reservation, Gila River Indian Community, San Carlos Apache, Morongo Band of Mission Indians, Big Pine Paiute Tribe of the Owen Valley, Rincon Band of Luiseno Indians, Cabazon, Quartz Valley, Karuk and White Mountain Apache Tribe. In limited circumstances some lands within tribal boundaries fall outside a tribe's Section 401 certifying authority and are subject to this certification.

certification. Where the Corps requires a PCN for the applicable NWP, the applicant should also provide the PCN to Region 9. Within 30 days, EPA Region 9 will provide written verification to the applicant that the proposed project will not violate the water quality certification of the NWP.

b. Projects or activities are not authorized under the NWP if the project will involve point source discharge into an active channel of a WOTUS identified as a section 303(d) or Total Maximum Daily Load (TMDL) listed impaired waterbody and the discharge may result in further exceedance of a specific parameter (e.g. total suspended solids, dissolved oxygen, temperature) for which the waterbody is listed. The current lists of 303(d) and TMDL listed waterbodies are available on EPA Region 9's web site at: https://www.epa.gov/tmdl/impaired-waters-and-tmdls-pacific-southwest-region-9.

C. 401 Water Quality Certification (401 WQC) Regional Conditions for Utah:

1. The following conditions from the attached December 8, 2020, 401 WQC granted by the State of Utah, Department of Environmental Quality, shall apply to all 2021 NWPs on non-tribal land in the State of Utah:

a. The Project Proponent shall provide Director Notification and Review for the following projects in order to protect designated beneficial uses and assure that Utah Water Quality Standards (WQS) are not violated:

i. Any project proposed under Nationwide Permits 3 (Maintenance) and 37 (Emergency Watershed Protection and Rehabilitation) and any project proposed under NWP 27 (Aquatic Habitat Restoration, Enhancement, and Establishment Activities) where PCN is required;

ii. Any proposed project that will be within 500 feet of the existing waters' edge of the Great Salt Lake, Utah Lake, and Bear Lake;

iii. Any project with a potential discharge into an impaired waterbody with an approved TMDL, where the project has the potential to discharge a pollutant identified/ addressed by the TMDL;

iv. Any project with a potential discharge to Category 1 or Category 2 waters; and,

v. Any project with a potential discharge where federal agencies are exempted from PCN normally required under the general permit in question.

b. All activities with a potential discharge to WOTUS must implement and maintain best management practices (BMPs) to fully protect the waterbodies assigned beneficial use(s).

c. All activities shall not cause further degradation of impaired waterbodies- as defined in the State of Utah, Division of Water Quality's most recent 303(d) list, regardless of

whether a TMDL has been completed. The project proponent must review impairments on the waterbodies where the projects have potential to discharge and is responsible for ensuring that WQS are not exceeded and designated beneficial uses are not impaired.

d. Hazardous and otherwise deleterious materials (e.g. oil, gasoline, chemicals, trash, sawdust, etc.) shall not be stored, disposed of, or accumulated or conveyed through adjacent to, or in immediate vicinity of, WOTUS unless adequate measures and controls are provided to ensure those materials will not enter WOTUS in the State of Utah. Any spill or discharge of oil or other substance which may cause pollution to WOTUS in the State of Utah, including wetlands, must be immediately reported to the Utah DEQ Hotline at (801) 536-4123, a 24-hour phone number.

e. All project proponents conducting activities in, or immediately adjacent to, WOTUS in the State of Utah with assigned class 1C (domestic drinking water) that are upstream 2 miles or less from any intake supply must notify the water supply operator and the local health department prior to commencement of work. If the water supply operator or the local health department recommends additional BMPs or monitoring, the project proponent must consider those recommendations in their project design.

f. All activities conducted in, or immediately adjacent to, WOTUS in the State of Utah with assigned beneficial use class 3A (cold water fishery) or has blue ribbon fishery designation must avoid removal of native riparian vegetation that provides stream shading to the maximum extent practicable. Any projects that approve removal of riparian vegetation that provides shade must require reestablishment of native vegetation that provides equal or greater shade. The project proponent shall provide successful reestablishment of native vegetation.

g. All activities conducted in WOTUS in the State of Utah shall be conducted in the “dry” to the maximum extent practicable, by diverting flow utilizing cofferdams, berms constructed of sandbags, clean rock (containing no fine sediment) or other non-erodible, non-toxic material. All diversion materials shall be removed at the completion of the work. Project proponent shall consider conducting instream work during low flow conditions and work shall not be conducted during spawning season. Additionally, construction machinery shall not be operated within WOTUS in the State of Utah unless it is unavoidable, in which case it shall be conducted in the “dry” as stated above. The work shall be conducted in a manner to minimize the duration of the disturbance, turbidity increases, substrate disturbance, and minimize the removal of riparian vegetation. Construction machinery shall be clean to prevent the transfer of aquatic invasive species.

2. The following conditions from the attached December 11, 2020, 401 WQC granted by Ute Mountain Ute Tribe (UMUT) shall apply to NWPs 43, 57, and 58, on the Ute Mountain Ute Reservation in the State of Utah:

a. All applicants, including federal agencies, must notify UMUT's Tribal Environmental Department of the use of all NWPs for which certification has been granted prior to commencing work on the project. Notification must include:

i. project location (lat. and long., exact point on map);

ii. NWP that will be used and the specific activity that will be authorized under the NWP;

iii. amount of permanent and temporary fills;

iv. a short summary of the proposed activity, and all other federal, state, tribal or local permits or licenses required for the project;

v. complete contact information of both the applicant and contractor (name, name of the company or property if applicable, telephone, mobile, and email);

vi. summary of best management practices that will be use; and,

vii. notify UMUT at least 7 days before the completion of construction and operations begin.

b. Point source discharges may not occur: (1) in fens, bogs or other peatlands; (2) within 100 feet of the point of discharge of a known natural spring source; (3) hanging gardens; or (4) culturally sensitive waters.

c. Except as specified in the application, no debris, silt, sand, cement, concrete, oil or petroleum, organic material, or other construction related materials or wastes shall be allowed to enter into or be stored where it may enter into WOTUS.

d. Silt fences, straw wattles, and other techniques shall be employed as appropriate to protect WOTUS from sedimentation and other pollutants.

e. Water used in dust suppression shall not contain contaminants that could violate water quality standards.

f. Erosion control matting that is either biodegradable blankets or loose-weave mesh must be used to the maximum extent practicable.

g. All equipment used in WOTUS must be inspected for fluid leaks and invasive species prior to use on a project. All fluid leaks shall be repaired and cleaned prior to use or when discovered, or if the fluid leak can't be repaired, the equipment shall not be used on site. Equipment used in waters with the possibility of aquatic nuisance species infestation must be thoroughly cleaned before they are used on the project.

h. Vegetation should be protected except where its removal is necessary for completion of the work. Locations disturbed by construction activities should be revegetated with appropriate native vegetation in a manner that optimizes plant establishment for the specific site. Revegetation may include topsoil replacement, planting, seeding fertilization, liming, and weed-free mulching, as necessary. Where practical, stockpile weed-seed-free topsoil and replace it on disturbed areas. All revegetation materials, including plants and plant seed shall be on site or scheduled for delivery prior to or upon completion of the earth moving activities.

i. Activities may not result in any unconfined discharge of liquid cement into WOTUS. Grouting riprap must occur under dry conditions with no exposure of wet concrete to the waterbody.

j. Activities that may result in a point source discharge shall occur during seasonal low flow or no flow periods to the extent practicable.

k. The placement of material (discharge) for the construction of new dams is not certified, except for stream restoration projects.

l. For NWP 43, *Stormwater Management Facilities*, certification is granted with conditions only for replacement and repair activities that impact (e.g., fill, relocate, realign or straighten) no more than 300 linear feet (lf) of stream or 1/10 acre of WOTUS.

m. For NWP 57, *Electric Utility Line and Telecommunications Activities*, construction activities shall not impact (e.g., fill, relocate, realign, or straighten) more than 300 lf of stream for a single and complete project.

n. For NWP 58, *Utility Line Activities for Water and Other Substances*, activities shall not impact (e.g., fill, relocate, realign, or straighten) more than 300 lf of stream channel for a single and complete project.

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

§401 Water Quality Certification No. DWQ-2020-10001

Applicant: US Army Corps of Engineers
Michael Jewell, Chief Regulatory Division
Sacramento District
1325 J Street
Sacramento, CA 95814

Project: **On September 15, 2020,** the U.S. Army Corps of Engineers issued **85 FR 57298 Proposal to Reissue and Modify Nationwide Permits** proposing to reissue 52 existing nationwide permits (NWPs) and issue five new NWPs. NWPs are general permits issued by the U.S. Army Corps of Engineers on a nationwide basis to streamline the authorization of certain activities under Section 404 of the Clean Water Act that result in no more than minimal individual and cumulative adverse environmental effects. Many of the proposed NWPs require notification to the district engineer before commencing activities to ensure that the activities authorized by those NWPs cause no more than minimal individual and cumulative adverse environmental effects.

Location: State of Utah

Watercourse(s): Waters of the United States (WOTUS)

Request Date: October 13, 2020

Effective Date: December 8, 2020

DWQ-2020-024910

Table of Contents

I. Definitions 3

II. Acronyms 4

III. Executive Summary 4

IV. Background 5

V. Certification Conditions 5

VI. Condition Justification and Citations 7

VII. Denials 16

VIII. Disclaimers 17

IX. Public Notice and Comments 17

X. Water Quality Certification 18

XI. References 19

Attachment 1: Applicant/Project Proponent Resources

I. Definitions

1.) **Blue Ribbon Fishery:** status administered by the Utah Division of Wildlife Resources and the Blue Ribbon Advisory Council that indicates the waterbody has high quality in the following attributes: fishing, outdoor experience, fish habitat, and economic benefits.

2.) **Category 1 Waters** are *"Waters which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as Category 1 Waters."* UAC R317-2-3.2

3.) **Category 2 Waters** *"are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality."* UAC R317-2-3.3

4.) **Designated Beneficial Uses**: means a water's present most reasonable uses, grouped by use classes to protect the uses against controllable pollution. Beneficial uses designated within each class are described in Utah Administrative Code (UAC) R317-2-6 and waterbodies beneficial uses can be found in UAC R317-2-13. For the purposes of this document, the term "designated beneficial uses" will be used to describe all uses required to be protected by Utah Water Quality Standards and Antidegradation Policy.

5.) **Director Notification and Review** means submittal of the U.S. Army Corps of Engineers (USACE) application and any supplemental attachments to the Utah Department of Environmental Quality (DEQ), Director of the Utah Division of Water Quality (DWQ) for review.

6.) **Existing Uses** *"means those uses actually attained in a water body on or after November 28, 1975, whether or not they are included in the water quality standards."* UAC R317-1-1.*" If a situation is found where there is an existing use which is a higher use (i.e., more stringent protection requirements) than that current designated use, the Director will apply the water quality standards and anti-degradation policy to protect the existing use."* UAC R317-2-3.

7.) **Project Proponent** *"means the applicant for license or permit or entity seeking certification."* 40 CFR §121.1

8.) **Total Maximum Daily Load (TMDL)-** *"means the maximum amount of a particular pollutant that a waterbody can receive and still meet state water quality standards, and an allocation of that amount to the pollutant's sources."* UAC R317-1-1

9.) **Waters of the United States (WOTUS)** means waterbodies subject to the provisions of the Clean Water Act.

10.) **303(d) list** is a state's list of impaired and threatened waters, including but not limited to; streams, lakes, and reservoirs adopted to implement the Clean Water Act Section 303(d).

II. Acronyms

BMPs- Best Management Practices
CWA- Clean Water Act
DEQ- Utah Department of Environmental Quality
DWQ – Utah Division of Water Quality
NWP(s)- Nationwide Permit(s)
PCN- Preconstruction Notification
UAC- Utah Administrative Code
USACE - U.S. Army Corps of Engineers
TMDL – Total Maximum Daily Load
WQS- Utah Water Quality Standards
WOTUS- Waters of the United States

III. Executive Summary

Pursuant to Section 401 of the Clean Water Act (CWA) 33 U.S.C. Section 1251 et seq., DWQ grants water quality certification to all USACE nationwide permits (NWPs) proposed by 85 FR 57298 except those that involve dam maintenance/rehabilitation or reservoir dewatering. Certification is subject to the conditions outlined in this document, adherence to the Sacramento Districts Regional Conditions, and adherence to any conditions outlined in the proposed NWPs. The conditions outlined in this certification are necessary to assure compliance with effluent limitations, monitoring requirements, and other applicable laws and regulations adopted for state primacy of the CWA. Condition justification and appropriate citations of Federal and State laws that authorize the condition, as required by 30 CFR Part 121.7, can be found in the section immediately following the conditions. In order to further assure compliance, DWQ reserves the right to request an individual certification for any project that is determined to have potential for significant adverse effects on water quality, potential to cause a violation of Utah Water Quality Standards (WQS) under UAC R317-2 or potential to degrade Waters of the United States (WOTUS), causing a violation of Utah Antidegradation Policy in UAC 317-2-3 in the State of Utah.

DWQ's conditions are based on and are necessary to comply with applicable state rules. Specifically, the following Utah Rules represent overarching considerations that require the conditions outlined by this document to apply to the USACE NWPs: Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a. Additionally, "All actions to control waste discharges under these rules shall be modified as necessary to protect downstream designated uses." UAC R317-2-8. As stated in UAC R317-15-6.1 the Director will

ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3

The Utah DWQ participated in a pre-filing meeting with the USACE on September 16, 2020, and received a formal 401 Certification request on October 13, 2020 from the USACE for the reissuance of the USACE NWPs. Utah DWQ was informed that the reasonable period of time to make a certification decision was 60 days, which requires the DWQ to act by December 12, 2020.

The Utah DWQ requested a 19 day extension of the 60 day deadline to make a certification decision on October 15, 2020. The extension was requested because on September 11, 2020, the EPA finalized the "Clean Water Act Section 401 Certification Rule", which had significant impact on Utah DWQ's certification program. The DWQ requested the additional time to ensure that the certification decision met the new requirements outlined in 40 CFR Part 121.

The USACE denied Utah's request for extension on October 23, 2020 and the DWQ was advised to act on the request by December 12, 2020.

IV. Background

NWPs authorize certain activities under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899. The USACE is proposing to reissue its existing NWPs and associated general conditions and definitions, with some modifications. The USACE are also proposing to issue five new NWPs. The USACE is proposing to divide the current NWP that authorizes utility line activities (NWP 12) into three separate NWPs that address the differences in how different linear projects are constructed, the substances they convey, and the different standards and best management practices that help ensure those NWPs authorize only those activities that have no more than minimal adverse environmental effects. Specifically, we are proposing to modify the current utility line NWP 12 to authorize only oil and natural gas pipeline activities. Two proposed new NWPs would authorize activities associated with the construction, maintenance, repair, and removal of electric utility lines/telecommunication lines and utility lines that convey water, sewage, and other substances with the potential to pollute. The fifth proposed new NWP would authorize discharges of dredged or fill material into jurisdictional waters for the construction, expansion, and maintenance of water reuse and reclamation facilities. NWPs authorize only activities with no more than minimal individual and cumulative adverse environmental effects.

V. Certification Conditions

1.) The Project Proponent shall provide Director Notification and Review for the following projects in order to protect designated beneficial uses and assure that WQS are not violated:

(a) Any project proposed under Nationwide Permits 3 (Maintenance) and 37 (Emergency Watershed Protection and Rehabilitation) and any project proposed under NWP 27 (Aquatic Habitat Restoration, Enhancement, and Establishment Activities) where PCN is required;

(b) Any proposed project that will be within 500 feet of the existing waters' edge of the Great Salt Lake, Utah Lake, and Bear Lake;

(c) Any project with a potential discharge is to an impaired waterbody with an approved Total Maximum Daily Load (TMDL), where the project has the potential to discharge a pollutant identified/ addressed by the TMDL;

(d) Any project with a potential discharge to *Category 1* or *Category 2* waters;

(e) Any project with a potential discharge where federal agencies are exempted from PCN normally required under the general permit in question.

2.) All activities with a potential discharge to WOTUS must implement and maintain best management practices (BMPs) to fully protect the waterbodies assigned beneficial use(s).

3.) All activities shall not cause further degradation of impaired waterbodies- as defined in DWQ's most recent 303(d) list, regardless of whether a TMDL has been completed. The project proponent must review impairments on the waterbodies where the projects have potential to discharge and is responsible for ensuring that WQS are not exceeded and designated beneficial uses are not impaired.

4.) Hazardous and otherwise deleterious materials (e.g. oil, gasoline, chemicals, trash, sawdust, etc.) shall not be stored, disposed of, or accumulated or conveyed through adjacent to or in immediate vicinity WOTUS unless adequate measures and controls are provided to ensure those materials will not enter WOTUS in the State of Utah. **Any spill or discharge of oil or other substance which may cause pollution to WOTUS in the State of Utah, including wetlands, must be immediately reported to the Utah DEQ Hotline at (801) 536-4123, a 24-hour phone number.**

5.) All project proponents conducting activities in or immediately adjacent to WOTUS in the State of Utah with assigned class 1C (domestic drinking water) that are upstream 2 miles or less from any intake supply must notify the water supply operator and the local health department prior to commencement of work. If the water supply operator or the local health department recommends additional BMPs or monitoring, the project proponent must consider those recommendations in their project design.

6.) All activities conducted in or immediately adjacent to WOTUS in the State of Utah with assigned beneficial use class 3A (cold water fishery) or has blue ribbon fishery designation must avoid removal of native riparian vegetation that provides stream shading to the maximum extent practicable. Any projects that approve removal of riparian vegetation that provides shade must require reestablishment of native vegetation that provides equal or greater shade. The project proponent shall provide successful reestablishment of native vegetation.

7.) All activities conducted in WOTUS in the State of Utah shall be conducted in the "dry" to the maximum extent practicable, by diverting flow utilizing cofferdams, berms constructed of sandbags, clean rock (containing no fine sediment) or other non-erodible, non-toxic material. All diversion materials shall be removed at the completion of the work. Project proponent shall consider conducting instream work during low flow conditions and work shall not be conducted during spawning season. Additionally, construction machinery shall not be operated within WOTUS in the State of Utah unless it is unavoidable, in which case it shall be conducted in the "dry" as stated above. The work shall be conducted in a manner to minimize the duration of the disturbance, turbidity increases, substrate disturbance, and minimize the removal of riparian vegetation. Construction machinery shall be clean to prevent the transfer of aquatic invasive species.

VI. Condition Justification and Citations

1.) **Director Notification and Review** is a condition for projects identified in Part V(1) above which present an increased likelihood of jeopardizing designated beneficial uses or otherwise causing a violation of WQS, promulgated pursuant to Utah Code Sections 19-5-104, 19-5-110 and Section 303 of the Clean Water Act. Director Notification will allow the DWQ to consider water-body specific factors that are not otherwise considered by NWPs. In support of cooperative federalism, the DWQ conditions approval of NWPs identified in Part V(1) above on Director notification, rather than denying all NWPs with potential adverse water quality impacts, to avoid unnecessary burden to applicants that would be associated with a blanket requirement for individual certification requests for all identified projects.

The opportunity to review specifically identified projects will allow the DWQ to assure that WQS will be met without automatically requiring a certification request to the Director directly from the project proponent. Director Notification would take substantially less time than requiring an individual certification request and associated pre-filing meeting. The Director will provide one of the following responses within two weeks;

(i) The DWQ has determined the project will likely have minimal impact to water quality, pending the project proponent's consideration of any written comments,

or in infrequent cases

(ii) The DWQ has determined that the project requires individual certification to adequately protect designated beneficial uses, prevent violation of WQS, or prevent antidegradation. The DWQ reserves the right to require an individual 401 certification in rare circumstances where the DWQ determines there is a potential for adverse water quality impacts.

(a) ***Projects Proposed Under Nationwide Permits 3, 27, and 37*** are conditioned on Director Notification and Review because they often involve removing built up debris and sediment or the release of sediment and as a result have the potential to result in discharges which threaten designated beneficial uses or may cause violation(s) of WQS for turbidity.

Projects issued under NWP 3 approve maintenance projects that often involve removal of sediment and debris which could then be released to WOTUS. Projects issued under NWP 27 approve projects that allow releasing sediment for Aquatic Habitat Restoration, Enhancement, and Establishment Activities.

Projects issued under NWP 37 approve projects for Emergency Watershed Protection and Rehabilitation and have potential for significant water quality impacts. In the past the DWQ reviewed these projects which often deal with rehabilitation of a waterbody after impacts from fire. These projects can often address increased sediment loads and debris in water channels because the riparian buffer is lost and there is increased runoff from the surrounding area. Projects issued under NWP 37 pose similar risks to those permitted under NWP 3 and 27.

Without proper precautions, projects under NWPs 3, 27 and 37 could result in significant increases in turbidity in the waterbody proposed for discharge. Numeric water quality criteria for turbidity in certain use designations could be violated if the project proponent does not take proper steps to minimize the increases. WQS for turbidity will be violated if there is an increase of 10 Nephelometric Turbidity Units (NTU) in waterbodies with designated beneficial uses related to recreation and if there is an increase of 10 NTUs (3A & 3B) or 15 NTUs (3C & 3D) in waterbodies with aquatic wildlife designated beneficial uses. UAC R317-2-14.1 and UAC R317-2-14.2.

In addition to violating numeric WQS, significant turbidity spikes or sediment deposits could cause a waterbody fail to meet all its designated beneficial uses or if large quantities of sediment are transported downstream, it could impact the downstream designated beneficial uses. The DWQ acknowledges that PCN is not always required under NWP 27, and only requests the requirement of Director Notification, when a PCN is required. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge *"impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6"* UAC R317-15-6.1.A.1., *"exceeds water quality criteria, either narrative or numeric, in Section R317-2-7"* UAC R317-15-6.1A.2. or *"fails to meet the antidegradation (ADR) requirements of Section R317-2-7"* UAC R317-15-6.1.A.3

Citations: UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(b) ***Projects within 500 feet of the Great Salt Lake, Utah Lake, and Bear Lake*** are conditioned on Director Notification and Review. The DWQ has determined that the Great Salt Lake, Utah Lake, and Bear Lake are unique waterbodies that require special attention and are at greater risk for potential adverse impacts when projects are within 500 feet of their existing water's edge. Utah Lake is the largest freshwater lake in Utah, the Great Salt Lake is the largest saline lake in the U.S. and provides habitat to migrating birds, and Bear Lake is well known for its recreation opportunities. When projects are being completed in close vicinity to these waterbodies, it poses increased risk of impacts to the designated uses for these waterbodies. Both Utah Lake and Bear lake have recreation designated use 2A (frequent primary contact recreation) and aquatic wildlife designated uses associated with either 3A cold water species of game fish (Bear Lake) or 3B warm water species of game fish. Both types of designated uses could be impacted by turbidity increases. Water quality criteria for turbidity will be violated if there is an increase of 10 NTUs in waterbodies with designated uses related to recreation and if there is an increase of 10 NTUs in aquatic wildlife designated use classes 3A and 3B. UAC R317-2-14.1 and UAC R317-2-14.2. Significant turbidity spikes or sediment deposits could cause a waterbody not to meet all its designated beneficial uses or if large quantities of sediment are transported downstream, it could impact the downstream beneficial uses. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3. when making a certification decision.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(c) ***Projects with potential discharge to an impaired waterbody with an approved Total Maximum Daily Load (TMDL), where the project has the potential to discharge a pollutant identified/ addressed by the TMDL*** are conditioned on Director Notification and Review. A total maximum daily load or *TMDL* "means the maximum amount of a particular pollutant that a waterbody can receive and still meet WQS, and an allocation of that amount to the pollutant's sources." UAC R317-1-1. When a waterbody is impaired and listed on the 303(d) list, states are required to create and implement TMDLs for the specific waterbody to restore water quality. Waters on Utah's most up to date 303(d) list are not currently meeting their designated beneficial uses. According to Utah's Final 2016 Integrated Report[1] the waters identified as impaired are not meeting their designated beneficial uses because "the concentration of the pollutant- or several pollutants- exceeds numeric water quality criteria, or quantitative biological assessments indicate that the biological designated uses are not

[1] https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

supported (Narrative water quality standards are violated)." TMDLs are created to limit discharges to the waterbody with the goal of meeting designated beneficial uses. If project proponents do not adhere to the BMPs and pollutant reduction requirements identified in approved TMDLs (as applicable) then there may be a violation of WQS and designated beneficial uses could be further impacted. If the potential discharge contains pollutants/ parameters that are included in an approved TMDL, the project proponent must take extra precautions, as identified in the TMDL, to minimize and prevent discharges that could further degrade the waterbodies, and prevent the waterbodies from meeting its designated beneficial and existing uses. Director notification and review of projects with the potential to discharge to impaired water bodies with approved TMDLs will ensure consistency with TMDL requirements and goals.

Citation(s): UAC R317-1, UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(d) ***Projects with potential discharges to Category 1 and Category 2 waters*** are conditioned on Director Notification and Review in order to ensure that the Utah DWQ's Antidegradation Policies are being implemented effectively. Category 1 waters are "waters which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as Category 1 Waters." UAC R317-2-3.2. Category 2 waters "are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality." UAC R317-2-3.3. Discharges may be allowed in Category 1 and Category 2 waters "where pollution will be temporary and limited after consideration of the factors in UAC R317-2-.3.5.b.4., and where best management practices will be employed to minimize pollution effects." UAC R317-2-3.2 and UAC R317-2-3.3.

Although NWPs are typically issued for projects with minimal impacts to water quality, the NWPs do not take into consideration the quality of the water affected. In order to comply with the Antidegradation Policy outlined by UAC R317-2-3.5.b.4, requiring that pollution to Category 1 and Category 2 waters be temporary and limited, the DWQ must review all projects with the potential to discharge to those waters. Without the ability to review the individual projects proposing to discharge to Category 1 and Category 2 waters, the DWQ cannot assure that they will meet the antidegradation policy or other applicable water quality requirements. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.2., UAC R317-2-3.3. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(e) ***Projects that exempt federal agencies from providing PCN where PCN is required for other entities*** are conditioned on Director Notice and Review. Federal agencies that are seeking NWPs, should be held to the same standards as other project proponents. Not all federal agencies have staffs that are environmental experts when it comes to water quality. The DWQ is concerned that failure for federal agencies to submit PCNs and receive oversight from the USACE or DWQ, could result in greater than minimal impacts to water quality, exceedance of WQS, and/or violation of antidegradation requirements. Federal agencies are not exempt for meeting WQS and may not always be able to ensure that WQS are met without any oversight from an entity that can provide water quality expertise.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

2.) **Implementation of Best Management Practices.** Project approval is conditioned on implementation of BMPs, which are required to be implemented by the Antidegradation Policy in UAC R317-2-3, WQS may be violated unless appropriate best management practices (BMPs) are incorporated to minimize the erosion-sediment and nutrient load. Violations of WQS could cause a waterbody to fail to meet its designated beneficial uses. As required by Utah's Antidegradation policy UAC R317-2-3.1 "Existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision. If appropriate BMPs are incorporated, there is assurance that the project will not violate WQS or impair a waterbody's beneficial use. See Attachment 1 for resources on identifying beneficial uses for WOTUS in the State of Utah and Construction Site BMPs.

Citation(s): UAC R317-2-3.1, UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

3.) **Protection of Impaired Waterbodies.** Waters that are impaired and conjunctively on Utah's most up to date 303(d) list are not currently meeting their designated beneficial uses. According to Utah's Final 2016 Integrated Report[1] the waters identified as impaired are not meeting their designated beneficial uses because "the concentration of the pollutant- or several pollutants- exceeds numeric water quality criteria, or quantitative biological assessments indicate that the biological designated uses are not supported (Narrative water quality standards are violated)." Utah's antidegradation policy states "existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." UAC R317-2-3.1. In order to ensure that proposed activities meet Utah's antidegradation and that discharges do not further degrade water quality the project proponent needs to be aware of the waterbodies assessment, more specifically if the

[1] https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

waterbody is impaired and listed on Utah's most current 303(d) list. If the potential discharge contains pollutants/ parameters that the waterbody is listed as impaired for, the project proponent needs to take extra precautions to minimize and prevent discharges that could further degrade the waterbodies and prevent the waterbodies from meeting its beneficial and existing uses. Typical pollutants associated with USACE Section 404 permits (e.g. sediment), especially when a waterbodies proposed for discharge is impaired could cause applicable WQS to be violated, if appropriate measures are taken." As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3. when making a certification decision.

Citation(s): UAC R317-2-3.1, UAC R317-2.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

4.) **Proper Storage of Hazardous and Otherwise Deleterious Materials.** Project approval is conditioned on proper storage of hazardous and otherwise deleterious materials, and notification of any discharge of those materials, to assure that water quality and narrative standards are not violated. When projects are occurring in or around waterbodies, there is a chance for pollutants to inadvertently be spilled/discharged into waterbodies due to increased risk from project related activities (e.g. presence of machinery, onsite chemical and gas storage, improper waste storage, and failure to use proper BMPs). To prevent or reduce the possibility that hazardous and otherwise deleterious materials are inadvertently discharged into a waterbody, project proponents must not store, dispose of, or accumulated such materials adjacent to or in immediate vicinity of WOTUS unless adequate measures and controls are provided to ensure those materials will not enter waters of the state. If there is a discharge to WOTUS in the State of Utah, it must be immediately reported to the DEQ, as stated in Utah Code §19-5-114. An inadvertent discharge of pollutants can cause violations with Utah's Narrative Standards, which states "It shall be unlawful, and a violation of these rules, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures; or determined by biological assessments in Subsection R317-2-7.3."UAC R317-3-7.2. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated." UAC R317-2-7.1.a. Discharges of pollutants, even inadvertently, could cause both a violation of applicable water quality standards and possibly interfere with a waterbodies designated uses.

Citation(s): Utah Code § 19-5-114, UAC R317-3-7.2, UAC R317-2-7.1.a, UAC R317-15-6.1., UAC R317-15-6.1.A.1., UAC R317-15-6.1A.2.

5.) **Notification to water supply operators and local health departments** is a condition of project approval for all projects in or immediately adjacent to WOTUS with assigned class 1C for domestic drinking water upstream two miles or less from any intake supply. NWP general permit condition 7 as described in 80 FR 57298, 57386 states " no activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization." The DWQ has determined that this condition is not specific enough to protect of beneficial use class 1C (Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water) because it fails to provide an exact distance. As stated in Utah's Antidegradation Policy UAC R317-2-3.5.d "depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream WQS, may be required by the Director in order to adequately protect public health and the environment." "The additional treatment/effluent limits/monitoring which may be required will be determined by the Director after consultation with the Division of Drinking Water and the downstream drinking water users." UAC R317-2-3.5.d. These additional requirements are necessary to ensure that beneficial use class 1C is maintained in the waterbody proposed for discharge or in some cases, protection of the downstream waterbodies designated beneficial use, when classified as 1C. Should the project proponent refuse to work with the local health department and water supply operators, the Director may request an individual certification request and issue additional requirements in consultation with the operator, the public health departments, and the Division of Drinking water in order to maintain the designated beneficial use.

Citation(s): UAC R317-2-3.5.d, UAC R317-2-7.1.a, UAC R317-2-8., UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3

6.) **Vegetation Preservation and Reestablishment in fisheries.** Project approval is conditioned on avoiding vegetation removal to the maximum extent practicable in or immediately adjacent to WOTUS used as fisheries in order to maintain existing beneficial use. Waterbodies with beneficial use class 3A (cold water fishery) or waterbodies with a blue ribbon fishery designation rely heavily on the available stream cover/shade to maintain designated beneficial uses. Riparian vegetation supplies necessary shade to stabilize water temperatures in streams. Removal of riparian vegetation, without reestablishment could cause a waterbody not to maintain beneficial use 3A or its blue river fishery designation. Utah's antidegradation policy states "existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." UAC R317-2-3.1. Failure to minimize riparian vegetation removal and failure to reestablish riparian vegetation which results in the failure to maintain beneficial use class 3A would be considered a violation of Utah's rules promulgating standards of quality for waters of the State, more specifically Utah's antidegradation policy found at UAC R317-2-3. Additionally, the loss of riparian vegetation

could cause a violation of the instream numeric criteria for temperature, which is listed as 20°C with a max temperature change of 2°C for beneficial use class 3A. UAC R317-2-14.2. If the temperature of the waterbody increases, there is a potential for instream water quality criteria for dissolved oxygen (DO) to be violated. Temperature and DO have an inverse relationship, where temperature increases then DO decreases, so in increase in temperature could cause a decrease in DO, and possibly a violation of the instream criteria for DO which for beneficial use class 3A is a minimum of 8.0 mg/L when early life stages are present and 4.0 mg/L when all other life stages are present. UAC R317-2-14.2. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.1., UAC R317-2-3., UACR317-2-14.2., UAC R317-2-14.2., UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3.

7.) **Dry Conditions to the Maximum Extent Practicable.** Project approval is conditioned on conducting activities under dry conditions to the maximum extent practicable to assure that WQS are not exceeded. DWQ acknowledges that some of the NWP general permit conditions encourage activities to be conducted under dry conditions, but the conditions do not go far enough to provide reasonable assurance of compliance with applicable WQS, particularly in Utah where dry conditions can be reasonably achieved. NWP general permit conditions 3, 11, and 12 partially address concerns the DWQ has, but are ultimately insufficient. NWP general condition 3 as described in 80 FR 57298, 57385 states *"activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized"*, condition 11 as described in 80 FR 57298, 57386 states *"heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance"* and condition 12 as described in 80 FR 57298, 57386 states *"appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides."*

General condition 3 as written does not adequately protect fish spawning, as required by Utah WQS and Antidegradation Policy. Certain activities/discharges (e.g. sediment discharges, streambed alteration, streambank alteration (fish habitat)) permitted through a USACE Section 404 permit to waterbodies during spawning season (in a waterbody where spawning may occur), will likely impact fish spawning. Activities/ discharges approved through a USACE Section 404 permit could have significant impacts to turbidity, DO, temperature, available substrate, and available habitat, which subsequently can have significant impacts to spawning. The impairment

of fish spawning is not considered a temporary and limited impact and therefore does not meet Utah's antidegradation policy found in UAC R317-2-3.5. An impairment of fish spawning may also impact whether the waterbody can maintain is designated beneficial uses, as it relates to aquatic wildlife use classes. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a.

General conditions 11 and 12, as stated above, do begin to address the use of machinery and timing of projects in WOTUS in the State of Utah, but additional conditions are necessary to meet Utah WQS. Condition 11 addresses work being conducted in wetlands that are considered WOTUS in the State of Utah, but does not address machinery use in open waterbodies or streams. Construction machinery used within a waterbody can cause significant impacts to water quality if adequate precautions are not taken. When it is unavoidable to operate construction machinery within the waterbody the project proponent should focus on minimizing the duration of the disturbance, turbidity increase, substrate disturbance, removal of riparian vegetation, and work shall be conducted in the "dry" to the maximum extent practicable. Minimizing the duration of impact reduces the chance that the impacts will accumulate and cause significant impacts to water quality. Minimizing turbidly increases is important because the State of Utah has numeric water quality criteria for turbidity in certain use designations, which could be violated if the project proponent does not take proper steps to minimize the increases. Water quality criteria for turbidity will be violated if there is an increase of 10 NTUs in waterbodies with designated uses related to recreation and if there is an increase of 10 NTUs (3A & 3B) or 15 NTUs (3C & 3D) in waterbodies with aquatic wildlife designated uses. UAC R317-2-14.1 and UAC R317-2-14.2. Conducting work in the "dry" to the maximum extent practicable will help reduce the risk of the numeric criteria for turbidity to be exceeded, as well as reduce the risk of a significant sediment load being transported downstream. Discharges of sediment can not only violate numeric criteria, but also, risk violating Utah's narrative standard "It shall be unlawful, and a violation of these rules, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures; or determined by biological assessments in Subsection R317-2-7.3." UAC R317-2-7.2. Violations of numeric and narrative criteria could cause a waterbody not to meet its designated beneficial use and a transport of sediment downstream could prevent a downstream waterbody from meeting its designated beneficial uses. As required by Utah's Antidegradation policy UAC R317-2-3.1 "Existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses.". Additionally, "All actions to control waste discharges under these rules shall be modified as necessary to protect downstream designated uses." UAC R317-2-8. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated

beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.5. , UAC R317-2-7.1.a., UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-7.2. , UAC R317-2-3.1, UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3.

VII. Denials

NWPs for Projects that involve dam maintenance/rehabilitation or reservoir dewatering are denied and must apply for individual certification from the Director because they have the potential to discharge massive amounts of sediment if not properly regulated and administered. As stated in justification1a, the DWQ has concerns with projects that have potential to discharge large quantities of sediment into waterbodies. Projects such as dam maintenance/rehabilitation or reservoir dewatering that involve potential release of large quantities of sediment, either as part of project activities or inadvertently, have potential for catastrophic impacts to water quality. For example, in August 2016, the Tibble Fork Dam had an unplanned release of approximately 8,700 cubic yards of sediment from the Tibble Fork Reservoir into the North Fork of the American Fork River, causing a fish kill of about 5,250 fish. Samples taken revealed sediment concentrations of heavy metals (arsenic, cadmium, lead, and Zinc) in excess of EPA Region 3 Freshwater Sediment Screening Values for aquatic life and human health-based concentration for lead. The project had been permitted under a USACE Section 404 NWP, but the DWQ was unaware of the project. If the DWQ had the opportunity to review the project prior to USACE NWP issuance, impacts may have been prevented or at least minimized by adding project-specific conditions or additional oversight to the project. To avoid future violations and catastrophic releases, the DWQ is requiring individual permits for these types of projects.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

VIII. Disclaimers

1.) This Section 401 Certification does not preclude the applicant's responsibility to comply with all applicable Federal, State or local laws, regulations or ordinances, including WQS. Permit coverage does not release the applicant from any liability or penalty, should violations to the permit terms and conditions or Federal or State Laws occur.

2.) Applicants must acquire all necessary easements, access authorizations and permits to ensure they are able to implement the project. This Section 401 Certification does not convey any property rights or exclusive privileges, nor does it authorize access or injury to private property.

IX. Public Notice and Comments

1.) **Public Notice Dates:** November 5, 2020 – December 7, 2020

2.) **Public Notice Comments, Response, and Actions:** The NWP 401 Certification received one comment.

(a) Comment 1

- Comment 1: The USACE requested that "USACE" be replaced with "prospective permittee" or "project proponent" when referring to condition requirements.

- Comment 1 Response: The USACE was advised that the request was reasonable and would be considered during finalization of the Certification.

- Comment 1 Action: The DWQ replaced "USACE" with "project proponent" in two locations at the request of the USACE. The changes were not significant and overall did not impact the conditions. Since this change was not considered major, the Certification will not be Public Noticed again.

3.) During finalization of the Certification certain dates, spelling edits, and minor language or formatting corrections may have been completed. Due to the nature of these changes they were not considered major and the Certification will not be Public Noticed again.

X. Water Quality Certification

The Utah Division of Water Quality Certifies that if projects issued under the USACE Nationwide Permits adhere to the conditions outlined in this certification, adhere to Sacramento Districts Regional Conditions, and adhere to any conditions outlined in the proposed NWPs then the projects will comply with water quality requirements and applicable provisions of the Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303(Water Quality Standards and Implementation Plans), 306(National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

Erica Brown Gaddis PhD, Director

12/08/2020
Date

XI. References

Division of Water Quality. 2016. Utah's Final 2016 Integrated Report. Salt lake City, Utah. Utah Department of Environmental Quality.

Available at: https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

Proposal To Reissue and Modify Nationwide Permits, 85 FR 57298 (September 15, 2020).

Available at: https://www.federalregister.gov/documents/2020/09/15/2020-17116/proposal-to-reissue-and-modify-nationwide-permits

Attachment 1: Project Proponent Resources

Project Proponent Resources

Best Management Practices for Construction Sites: https://deq.utah.gov/sbeap/best-management-practices-for-construction-sites

Utah DEQ Interactive Map: https://enviro.deq.utah.gov/

EPA's Final "Clean Water Act Section 401 Certification Rule" : https://www.epa.gov/sites/production/files/2020-07/documents/clean_water_act_section_401_certification_rule.pdf

Approved TMDLs in the State of Utah: https://deq.utah.gov/water-quality/watershed-monitoring-program/approved-tmdls-watershed-management-program

From:	Linsey Shafer
To:	Steve Morrey
Cc:	John Mackey; Nichols, Karen; Nichols, Nathan
Subject:	Re: Waterleaf Resources, GSL Ph. 1 Lithium Extraction Project---- 401 WQC to support USACE 404 NWP SPK-2025-00525
Date:	Tuesday, January 13, 2026 3:30:06 PM
Attachments:	~WRD1726.jpg image001.png Conditional 401 Certification (2).pdf

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Afternoon,

The Utah Division of Water Quality (DWQ) appreciates the opportunity to comment on the proposed Waterleaf Resources Great Salt Lake (GSL) Lithium Extraction Project under the U.S. Army Corps of Engineers (USACE) Nationwide Permit (NWP) 58, located on the North Arm of the Great Salt Lake at Latitude 41.461297, Longitude -112.692050, Box Elder County, Utah. DWQ has reviewed the Director Notification Letter and related materials submitted by Senior Project Director Steve Morrey for Waterleaf Resources.

The Section 401 Water Quality Certification (WQC) issued for the 2021 NWPs condition 1(a) requires that project proponents provide Director Notification and Review for projects proposed within 500 ft of the Great Salt Lake. A response will be provided within two weeks. Waterleaf Resources originally submitted a 401 Water Quality Certification request to DWQ on December 5, 2025, for the proposed project. While working with the USACE to obtain the 404 USACE Permit, it was determined that the proposed project would qualify for coverage under NWP 58, Utility Line Activities for Water and Other Substances. Jason Gipson, the Utah Section Chief with the USACE, confirmed approved coverage under NWP 58 on December 29, 2025. Therefore, the project no longer needs to obtain a Letter of Permission. The specific activities that require authorization are the intake system, consisting of four centrifugal pumps along two pipelines with intake/outfalls, approximately 4,000 to 7,000 feet from the upland-based processing plant. These activities will result in permanent effects on 0.04 acre (1,564 sq ft) and temporary impacts to 0.07 acre (2,907 sq ft) of the Great Salt Lake. The proposed activities would be conducted in accordance with the Lilac Pipeline Site plans dated March 12, 2025.

DWQ acknowledges that the submitted documents meet the WQC condition 1(a) requirements. Furthermore, based on the review of the submitted notification documents, the DWQ does not have notable concerns with the proposed project. The 401 Water Quality Certification issued to NWP is sufficient to address water quality concerns for the proposed project. The proposed project must comply with all conditions set forth in the 401 Water Quality Certification. A copy of the 401 Certification is attached. Waterleaf Resources or operators performing the work must obtain the applicable Utah Pollution Discharge Elimination System ("UPDES") Permits for construction work and dewatering. This email confirms that Waterleaf Resources has met WQC condition 1(a) of the WQC. If the proposed project is updated at any time and will require an alternative USACE 404 Permit, the project proponent must notify DWQ. Please keep a copy of this email for your records.

Please contact us with any questions. We appreciate your commitment to water quality in Utah.

Sincerely,

Linsey Shafer

On Wed, Dec 31, 2025 at 2:37 PM Linsey Shafer <lrshafer@utah.gov> wrote:

> Hello Steve,
>
> Thank you for providing the Division of Water Quality (DWQ) with the final U.S. Army Corps of Engineers (USACE) authorization notice for the proposed project under Nationwide Permit 58 (NWP 58).
>
> DWQ will review this information along with the previously submitted project materials and will then provide a determination on whether the Conditional 401 Water Quality Certification will be sufficient to address DWQ's water quality concerns regarding the project impacts. Please let me know if you have any questions or concerns.
>
> Sincerely,
> Linsey Shafer
>
> On Tue, Dec 30, 2025 at 7:43 AM Steve Morrey <Steve.Morrey@lilacsolutions.com> wrote:
>
> > Good Morning
> >
> > Please see the attached approval from ACOE.
> >
> > Thanks and let us know what other information is needed.
> >
> > Steve
> >
> > Steve Morrey
> >
> > Sr. Project Director.
> >
> > Lilac Solutions, Inc.
> >
> > Steve.morrey@lilacsolutions.com
> >
> > www.lilacsolutions.com
> >
> > Mobile: +1-801-694-2245

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

§401 Water Quality Certification No. DWQ-2020-10001

Applicant: US Army Corps of Engineers
Michael Jewell, Chief Regulatory Division
Sacramento District
1325 J Street
Sacramento, CA 95814

Project: **On September 15, 2020,** the U.S. Army Corps of Engineers issued **85 FR 57298 Proposal to Reissue and Modify Nationwide Permits** proposing to reissue 52 existing nationwide permits (NWPs) and issue five new NWPs. NWPs are general permits issued by the U.S. Army Corps of Engineers on a nationwide basis to streamline the authorization of certain activities under Section 404 of the Clean Water Act that result in no more than minimal individual and cumulative adverse environmental effects. Many of the proposed NWPs require notification to the district engineer before commencing activities to ensure that the activities authorized by those NWPs cause no more than minimal individual and cumulative adverse environmental effects.

Location: State of Utah

Watercourse(s): Waters of the United States (WOTUS)

Request Date: October 13, 2020

Effective Date: December 8, 2020

DWQ-2020-024910

Table of Contents

I. Definitions 3

II. Acronyms 4

III. Executive Summary 4

IV. Background 5

V. Certification Conditions 5

VI. Condition Justification and Citations 7

VII. Denials 16

VIII. Disclaimers 17

IX. Public Notice and Comments 17

X. Water Quality Certification 18

XI. References 19

Attachment 1: Applicant/Project Proponent Resources

I. Definitions

1.) **Blue Ribbon Fishery:** status administered by the Utah Division of Wildlife Resources and the Blue Ribbon Advisory Council that indicates the waterbody has high quality in the following attributes: fishing, outdoor experience, fish habitat, and economic benefits.

2.) **Category 1 Waters** are *"Waters which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as Category 1 Waters."* UAC R317-2-3.2

3.) **Category 2 Waters** *"are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality."* UAC R317-2-3.3

4.) **Designated Beneficial Uses**: means a water's present most reasonable uses, grouped by use classes to protect the uses against controllable pollution. Beneficial uses designated within each class are described in Utah Administrative Code (UAC) R317-2-6 and waterbodies beneficial uses can be found in UAC R317-2-13. For the purposes of this document, the term "designated beneficial uses" will be used to describe all uses required to be protected by Utah Water Quality Standards and Antidegradation Policy.

5.) **Director Notification and Review** means submittal of the U.S. Army Corps of Engineers (USACE) application and any supplemental attachments to the Utah Department of Environmental Quality (DEQ), Director of the Utah Division of Water Quality (DWQ) for review.

6.) **Existing Uses** *"means those uses actually attained in a water body on or after November 28, 1975, whether or not they are included in the water quality standards."* UAC R317-1-1.*" If a situation is found where there is an existing use which is a higher use (i.e., more stringent protection requirements) than that current designated use, the Director will apply the water quality standards and anti-degradation policy to protect the existing use."* UAC R317-2-3.

7.) **Project Proponent** *"means the applicant for license or permit or entity seeking certification."* 40 CFR §121.1

8.) **Total Maximum Daily Load (TMDL)-** *"means the maximum amount of a particular pollutant that a waterbody can receive and still meet state water quality standards, and an allocation of that amount to the pollutant's sources."* UAC R317-1-1

9.) **Waters of the United States (WOTUS)** means waterbodies subject to the provisions of the Clean Water Act.

10.) **303(d) list** is a state's list of impaired and threatened waters, including but not limited to; streams, lakes, and reservoirs adopted to implement the Clean Water Act Section 303(d).

II. Acronyms

BMPs- Best Management Practices
CWA- Clean Water Act
DEQ- Utah Department of Environmental Quality
DWQ – Utah Division of Water Quality
NWP(s)- Nationwide Permit(s)
PCN- Preconstruction Notification
UAC- Utah Administrative Code
USACE - U.S. Army Corps of Engineers
TMDL – Total Maximum Daily Load
WQS- Utah Water Quality Standards
WOTUS- Waters of the United States

III. Executive Summary

Pursuant to Section 401 of the Clean Water Act (CWA) 33 U.S.C. Section 1251 et seq., DWQ grants water quality certification to all USACE nationwide permits (NWPs) proposed by 85 FR 57298 except those that involve dam maintenance/rehabilitation or reservoir dewatering. Certification is subject to the conditions outlined in this document, adherence to the Sacramento Districts Regional Conditions, and adherence to any conditions outlined in the proposed NWPs. The conditions outlined in this certification are necessary to assure compliance with effluent limitations, monitoring requirements, and other applicable laws and regulations adopted for state primacy of the CWA. Condition justification and appropriate citations of Federal and State laws that authorize the condition, as required by 30 CFR Part 121.7, can be found in the section immediately following the conditions. In order to further assure compliance, DWQ reserves the right to request an individual certification for any project that is determined to have potential for significant adverse effects on water quality, potential to cause a violation of Utah Water Quality Standards (WQS) under UAC R317-2 or potential to degrade Waters of the United States (WOTUS), causing a violation of Utah Antidegradation Policy in UAC 317-2-3 in the State of Utah.

DWQ's conditions are based on and are necessary to comply with applicable state rules. Specifically, the following Utah Rules represent overarching considerations that require the conditions outlined by this document to apply to the USACE NWPs: Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a. Additionally, "All actions to control waste discharges under these rules shall be modified as necessary to protect downstream designated uses." UAC R317-2-8. As stated in UAC R317-15-6.1 the Director will

ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3

The Utah DWQ participated in a pre-filing meeting with the USACE on September 16, 2020, and received a formal 401 Certification request on October 13, 2020 from the USACE for the reissuance of the USACE NWPs. Utah DWQ was informed that the reasonable period of time to make a certification decision was 60 days, which requires the DWQ to act by December 12, 2020.

The Utah DWQ requested a 19 day extension of the 60 day deadline to make a certification decision on October 15, 2020. The extension was requested because on September 11, 2020, the EPA finalized the "Clean Water Act Section 401 Certification Rule", which had significant impact on Utah DWQ's certification program. The DWQ requested the additional time to ensure that the certification decision met the new requirements outlined in 40 CFR Part 121.

The USACE denied Utah's request for extension on October 23, 2020 and the DWQ was advised to act on the request by December 12, 2020.

IV. Background

NWPs authorize certain activities under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899. The USACE is proposing to reissue its existing NWPs and associated general conditions and definitions, with some modifications. The USACE are also proposing to issue five new NWPs. The USACE is proposing to divide the current NWP that authorizes utility line activities (NWP 12) into three separate NWPs that address the differences in how different linear projects are constructed, the substances they convey, and the different standards and best management practices that help ensure those NWPs authorize only those activities that have no more than minimal adverse environmental effects. Specifically, we are proposing to modify the current utility line NWP 12 to authorize only oil and natural gas pipeline activities. Two proposed new NWPs would authorize activities associated with the construction, maintenance, repair, and removal of electric utility lines/telecommunication lines and utility lines that convey water, sewage, and other substances with the potential to pollute. The fifth proposed new NWP would authorize discharges of dredged or fill material into jurisdictional waters for the construction, expansion, and maintenance of water reuse and reclamation facilities. NWPs authorize only activities with no more than minimal individual and cumulative adverse environmental effects.

V. Certification Conditions

1.) The Project Proponent shall provide Director Notification and Review for the following projects in order to protect designated beneficial uses and assure that WQS are not violated:

(a) Any project proposed under Nationwide Permits 3 (Maintenance) and 37 (Emergency Watershed Protection and Rehabilitation) and any project proposed under NWP 27 (Aquatic Habitat Restoration, Enhancement, and Establishment Activities) where PCN is required;

(b) Any proposed project that will be within 500 feet of the existing waters' edge of the Great Salt Lake, Utah Lake, and Bear Lake;

(c) Any project with a potential discharge is to an impaired waterbody with an approved Total Maximum Daily Load (TMDL), where the project has the potential to discharge a pollutant identified/ addressed by the TMDL;

(d) Any project with a potential discharge to *Category 1* or *Category 2* waters;

(e) Any project with a potential discharge where federal agencies are exempted from PCN normally required under the general permit in question.

2.) All activities with a potential discharge to WOTUS must implement and maintain best management practices (BMPs) to fully protect the waterbodies assigned beneficial use(s).

3.) All activities shall not cause further degradation of impaired waterbodies- as defined in DWQ's most recent 303(d) list, regardless of whether a TMDL has been completed. The project proponent must review impairments on the waterbodies where the projects have potential to discharge and is responsible for ensuring that WQS are not exceeded and designated beneficial uses are not impaired.

4.) Hazardous and otherwise deleterious materials (e.g. oil, gasoline, chemicals, trash, sawdust, etc.) shall not be stored, disposed of, or accumulated or conveyed through adjacent to or in immediate vicinity WOTUS unless adequate measures and controls are provided to ensure those materials will not enter WOTUS in the State of Utah. **Any spill or discharge of oil or other substance which may cause pollution to WOTUS in the State of Utah, including wetlands, must be immediately reported to the Utah DEQ Hotline at (801) 536-4123, a 24-hour phone number.**

5.) All project proponents conducting activities in or immediately adjacent to WOTUS in the State of Utah with assigned class 1C (domestic drinking water) that are upstream 2 miles or less from any intake supply must notify the water supply operator and the local health department prior to commencement of work. If the water supply operator or the local health department recommends additional BMPs or monitoring, the project proponent must consider those recommendations in their project design.

6.) All activities conducted in or immediately adjacent to WOTUS in the State of Utah with assigned beneficial use class 3A (cold water fishery) or has blue ribbon fishery designation must avoid removal of native riparian vegetation that provides stream shading to the maximum extent practicable. Any projects that approve removal of riparian vegetation that provides shade must require reestablishment of native vegetation that provides equal or greater shade. The project proponent shall provide successful reestablishment of native vegetation.

7.) All activities conducted in WOTUS in the State of Utah shall be conducted in the "dry" to the maximum extent practicable, by diverting flow utilizing cofferdams, berms constructed of sandbags, clean rock (containing no fine sediment) or other non-erodible, non-toxic material. All diversion materials shall be removed at the completion of the work. Project proponent shall consider conducting instream work during low flow conditions and work shall not be conducted during spawning season. Additionally, construction machinery shall not be operated within WOTUS in the State of Utah unless it is unavoidable, in which case it shall be conducted in the "dry" as stated above. The work shall be conducted in a manner to minimize the duration of the disturbance, turbidity increases, substrate disturbance, and minimize the removal of riparian vegetation. Construction machinery shall be clean to prevent the transfer of aquatic invasive species.

VI. Condition Justification and Citations

1.) **Director Notification and Review** is a condition for projects identified in Part V(1) above which present an increased likelihood of jeopardizing designated beneficial uses or otherwise causing a violation of WQS, promulgated pursuant to Utah Code Sections 19-5-104, 19-5-110 and Section 303 of the Clean Water Act. Director Notification will allow the DWQ to consider water-body specific factors that are not otherwise considered by NWPs. In support of cooperative federalism, the DWQ conditions approval of NWPs identified in Part V(1) above on Director notification, rather than denying all NWPs with potential adverse water quality impacts, to avoid unnecessary burden to applicants that would be associated with a blanket requirement for individual certification requests for all identified projects.

The opportunity to review specifically identified projects will allow the DWQ to assure that WQS will be met without automatically requiring a certification request to the Director directly from the project proponent. Director Notification would take substantially less time than requiring an individual certification request and associated pre-filing meeting. The Director will provide one of the following responses within two weeks;

(i) The DWQ has determined the project will likely have minimal impact to water quality, pending the project proponent's consideration of any written comments,

or in infrequent cases

(ii) The DWQ has determined that the project requires individual certification to adequately protect designated beneficial uses, prevent violation of WQS, or prevent antidegradation. The DWQ reserves the right to require an individual 401 certification in rare circumstances where the DWQ determines there is a potential for adverse water quality impacts.

(a) ***Projects Proposed Under Nationwide Permits 3, 27, and 37*** are conditioned on Director Notification and Review because they often involve removing built up debris and sediment or the release of sediment and as a result have the potential to result in discharges which threaten designated beneficial uses or may cause violation(s) of WQS for turbidity.

Projects issued under NWP 3 approve maintenance projects that often involve removal of sediment and debris which could then be released to WOTUS. Projects issued under NWP 27 approve projects that allow releasing sediment for Aquatic Habitat Restoration, Enhancement, and Establishment Activities.

Projects issued under NWP 37 approve projects for Emergency Watershed Protection and Rehabilitation and have potential for significant water quality impacts. In the past the DWQ reviewed these projects which often deal with rehabilitation of a waterbody after impacts from fire. These projects can often address increased sediment loads and debris in water channels because the riparian buffer is lost and there is increased runoff from the surrounding area. Projects issued under NWP 37 pose similar risks to those permitted under NWP 3 and 27.

Without proper precautions, projects under NWPs 3, 27 and 37 could result in significant increases in turbidity in the waterbody proposed for discharge. Numeric water quality criteria for turbidity in certain use designations could be violated if the project proponent does not take proper steps to minimize the increases. WQS for turbidity will be violated if there is an increase of 10 Nephelometric Turbidity Units (NTU) in waterbodies with designated beneficial uses related to recreation and if there is an increase of 10 NTUs (3A & 3B) or 15 NTUs (3C & 3D) in waterbodies with aquatic wildlife designated beneficial uses. UAC R317-2-14.1 and UAC R317-2-14.2.

In addition to violating numeric WQS, significant turbidity spikes or sediment deposits could cause a waterbody fail to meet all its designated beneficial uses or if large quantities of sediment are transported downstream, it could impact the downstream designated beneficial uses. The DWQ acknowledges that PCN is not always required under NWP 27, and only requests the requirement of Director Notification, when a PCN is required. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge *"impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6"* UAC R317-15-6.1.A.1., *"exceeds water quality criteria, either narrative or numeric, in Section R317-2-7"* UAC R317-15-6.1A.2. or *"fails to meet the antidegradation (ADR) requirements of Section R317-2-7"* UAC R317-15-6.1.A.3

Citations: UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(b) ***Projects within 500 feet of the Great Salt Lake, Utah Lake, and Bear Lake*** are conditioned on Director Notification and Review. The DWQ has determined that the Great Salt Lake, Utah Lake, and Bear Lake are unique waterbodies that require special attention and are at greater risk for potential adverse impacts when projects are within 500 feet of their existing water's edge. Utah Lake is the largest freshwater lake in Utah, the Great Salt Lake is the largest saline lake in the U.S. and provides habitat to migrating birds, and Bear Lake is well known for its recreation opportunities. When projects are being completed in close vicinity to these waterbodies, it poses increased risk of impacts to the designated uses for these waterbodies. Both Utah Lake and Bear lake have recreation designated use 2A (frequent primary contact recreation) and aquatic wildlife designated uses associated with either 3A cold water species of game fish (Bear Lake) or 3B warm water species of game fish. Both types of designated uses could be impacted by turbidity increases. Water quality criteria for turbidity will be violated if there is an increase of 10 NTUs in waterbodies with designated uses related to recreation and if there is an increase of 10 NTUs in aquatic wildlife designated use classes 3A and 3B. UAC R317-2-14.1 and UAC R317-2-14.2. Significant turbidity spikes or sediment deposits could cause a waterbody not to meet all its designated beneficial uses or if large quantities of sediment are transported downstream, it could impact the downstream beneficial uses. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3. when making a certification decision.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(c) ***Projects with potential discharge to an impaired waterbody with an approved Total Maximum Daily Load (TMDL), where the project has the potential to discharge a pollutant identified/ addressed by the TMDL*** are conditioned on Director Notification and Review. A total maximum daily load or *TMDL* "means the maximum amount of a particular pollutant that a waterbody can receive and still meet WQS, and an allocation of that amount to the pollutant's sources." UAC R317-1-1. When a waterbody is impaired and listed on the 303(d) list, states are required to create and implement TMDLs for the specific waterbody to restore water quality. Waters on Utah's most up to date 303(d) list are not currently meeting their designated beneficial uses. According to Utah's Final 2016 Integrated Report[1] the waters identified as impaired are not meeting their designated beneficial uses because "the concentration of the pollutant- or several pollutants- exceeds numeric water quality criteria, or quantitative biological assessments indicate that the biological designated uses are not

[1] https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

supported (Narrative water quality standards are violated)." TMDLs are created to limit discharges to the waterbody with the goal of meeting designated beneficial uses. If project proponents do not adhere to the BMPs and pollutant reduction requirements identified in approved TMDLs (as applicable) then there may be a violation of WQS and designated beneficial uses could be further impacted. If the potential discharge contains pollutants/ parameters that are included in an approved TMDL, the project proponent must take extra precautions, as identified in the TMDL, to minimize and prevent discharges that could further degrade the waterbodies, and prevent the waterbodies from meeting its designated beneficial and existing uses. Director notification and review of projects with the potential to discharge to impaired water bodies with approved TMDLs will ensure consistency with TMDL requirements and goals.

Citation(s): UAC R317-1, UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(d) ***Projects with potential discharges to Category 1 and Category 2 waters*** are conditioned on Director Notification and Review in order to ensure that the Utah DWQ's Antidegradation Policies are being implemented effectively. Category 1 waters are "waters which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as Category 1 Waters." UAC R317-2-3.2. Category 2 waters "are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality." UAC R317-2-3.3. Discharges may be allowed in Category 1 and Category 2 waters "where pollution will be temporary and limited after consideration of the factors in UAC R317-2-.3.5.b.4., and where best management practices will be employed to minimize pollution effects." UAC R317-2-3.2 and UAC R317-2-3.3.

Although NWPs are typically issued for projects with minimal impacts to water quality, the NWPs do not take into consideration the quality of the water affected. In order to comply with the Antidegradation Policy outlined by UAC R317-2-3.5.b.4, requiring that pollution to Category 1 and Category 2 waters be temporary and limited, the DWQ must review all projects with the potential to discharge to those waters. Without the ability to review the individual projects proposing to discharge to Category 1 and Category 2 waters, the DWQ cannot assure that they will meet the antidegradation policy or other applicable water quality requirements. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.2., UAC R317-2-3.3. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

(e) ***Projects that exempt federal agencies from providing PCN where PCN is required for other entities*** are conditioned on Director Notice and Review. Federal agencies that are seeking NWPs, should be held to the same standards as other project proponents. Not all federal agencies have staffs that are environmental experts when it comes to water quality. The DWQ is concerned that failure for federal agencies to submit PCNs and receive oversight from the USACE or DWQ, could result in greater than minimal impacts to water quality, exceedance of WQS, and/or violation of antidegradation requirements. Federal agencies are not exempt for meeting WQS and may not always be able to ensure that WQS are met without any oversight from an entity that can provide water quality expertise.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

2.) **Implementation of Best Management Practices.** Project approval is conditioned on implementation of BMPs, which are required to be implemented by the Antidegradation Policy in UAC R317-2-3, WQS may be violated unless appropriate best management practices (BMPs) are incorporated to minimize the erosion-sediment and nutrient load. Violations of WQS could cause a waterbody to fail to meet its designated beneficial uses. As required by Utah's Antidegradation policy UAC R317-2-3.1 "Existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision. If appropriate BMPs are incorporated, there is assurance that the project will not violate WQS or impair a waterbody's beneficial use. See Attachment 1 for resources on identifying beneficial uses for WOTUS in the State of Utah and Construction Site BMPs.

Citation(s): UAC R317-2-3.1, UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

3.) **Protection of Impaired Waterbodies.** Waters that are impaired and conjunctively on Utah's most up to date 303(d) list are not currently meeting their designated beneficial uses. According to Utah's Final 2016 Integrated Report[1] the waters identified as impaired are not meeting their designated beneficial uses because "the concentration of the pollutant- or several pollutants- exceeds numeric water quality criteria, or quantitative biological assessments indicate that the biological designated uses are not supported (Narrative water quality standards are violated)." Utah's antidegradation policy states "existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." UAC R317-2-3.1. In order to ensure that proposed activities meet Utah's antidegradation and that discharges do not further degrade water quality the project proponent needs to be aware of the waterbodies assessment, more specifically if the

[1] https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

waterbody is impaired and listed on Utah's most current 303(d) list. If the potential discharge contains pollutants/ parameters that the waterbody is listed as impaired for, the project proponent needs to take extra precautions to minimize and prevent discharges that could further degrade the waterbodies and prevent the waterbodies from meeting its beneficial and existing uses. Typical pollutants associated with USACE Section 404 permits (e.g. sediment), especially when a waterbodies proposed for discharge is impaired could cause applicable WQS to be violated, if appropriate measures are taken." As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3. when making a certification decision.

Citation(s): UAC R317-2-3.1, UAC R317-2.1.a., UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

4.) **Proper Storage of Hazardous and Otherwise Deleterious Materials.** Project approval is conditioned on proper storage of hazardous and otherwise deleterious materials, and notification of any discharge of those materials, to assure that water quality and narrative standards are not violated. When projects are occurring in or around waterbodies, there is a chance for pollutants to inadvertently be spilled/discharged into waterbodies due to increased risk from project related activities (e.g. presence of machinery, onsite chemical and gas storage, improper waste storage, and failure to use proper BMPs). To prevent or reduce the possibility that hazardous and otherwise deleterious materials are inadvertently discharged into a waterbody, project proponents must not store, dispose of, or accumulated such materials adjacent to or in immediate vicinity of WOTUS unless adequate measures and controls are provided to ensure those materials will not enter waters of the state. If there is a discharge to WOTUS in the State of Utah, it must be immediately reported to the DEQ, as stated in Utah Code §19-5-114. An inadvertent discharge of pollutants can cause violations with Utah's Narrative Standards, which states "It shall be unlawful, and a violation of these rules, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures; or determined by biological assessments in Subsection R317-2-7.3."UAC R317-3-7.2. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated." UAC R317-2-7.1.a. Discharges of pollutants, even inadvertently, could cause both a violation of applicable water quality standards and possibly interfere with a waterbodies designated uses.

Citation(s): Utah Code § 19-5-114, UAC R317-3-7.2, UAC R317-2-7.1.a, UAC R317-15-6.1., UAC R317-15-6.1.A.1., UAC R317-15-6.1A.2.

5.) **Notification to water supply operators and local health departments** is a condition of project approval for all projects in or immediately adjacent to WOTUS with assigned class 1C for domestic drinking water upstream two miles or less from any intake supply. NWP general permit condition 7 as described in 80 FR 57298, 57386 states " no activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization." The DWQ has determined that this condition is not specific enough to protect of beneficial use class 1C (Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water) because it fails to provide an exact distance. As stated in Utah's Antidegradation Policy UAC R317-2-3.5.d "depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream WQS, may be required by the Director in order to adequately protect public health and the environment." "The additional treatment/effluent limits/monitoring which may be required will be determined by the Director after consultation with the Division of Drinking Water and the downstream drinking water users." UAC R317-2-3.5.d. These additional requirements are necessary to ensure that beneficial use class 1C is maintained in the waterbody proposed for discharge or in some cases, protection of the downstream waterbodies designated beneficial use, when classified as 1C. Should the project proponent refuse to work with the local health department and water supply operators, the Director may request an individual certification request and issue additional requirements in consultation with the operator, the public health departments, and the Division of Drinking water in order to maintain the designated beneficial use.

Citation(s): UAC R317-2-3.5.d, UAC R317-2-7.1.a, UAC R317-2-8., UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3

6.) **Vegetation Preservation and Reestablishment in fisheries.** Project approval is conditioned on avoiding vegetation removal to the maximum extent practicable in or immediately adjacent to WOTUS used as fisheries in order to maintain existing beneficial use. Waterbodies with beneficial use class 3A (cold water fishery) or waterbodies with a blue ribbon fishery designation rely heavily on the available stream cover/shade to maintain designated beneficial uses. Riparian vegetation supplies necessary shade to stabilize water temperatures in streams. Removal of riparian vegetation, without reestablishment could cause a waterbody not to maintain beneficial use 3A or its blue river fishery designation. Utah's antidegradation policy states "existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses." UAC R317-2-3.1. Failure to minimize riparian vegetation removal and failure to reestablish riparian vegetation which results in the failure to maintain beneficial use class 3A would be considered a violation of Utah's rules promulgating standards of quality for waters of the State, more specifically Utah's antidegradation policy found at UAC R317-2-3. Additionally, the loss of riparian vegetation

could cause a violation of the instream numeric criteria for temperature, which is listed as 20°C with a max temperature change of 2°C for beneficial use class 3A. UAC R317-2-14.2. If the temperature of the waterbody increases, there is a potential for instream water quality criteria for dissolved oxygen (DO) to be violated. Temperature and DO have an inverse relationship, where temperature increases then DO decreases, so in increase in temperature could cause a decrease in DO, and possibly a violation of the instream criteria for DO which for beneficial use class 3A is a minimum of 8.0 mg/L when early life stages are present and 4.0 mg/L when all other life stages are present. UAC R317-2-14.2. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.1., UAC R317-2-3., UACR317-2-14.2., UAC R317-2-14.2., UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3.

7.) **Dry Conditions to the Maximum Extent Practicable.** Project approval is conditioned on conducting activities under dry conditions to the maximum extent practicable to assure that WQS are not exceeded. DWQ acknowledges that some of the NWP general permit conditions encourage activities to be conducted under dry conditions, but the conditions do not go far enough to provide reasonable assurance of compliance with applicable WQS, particularly in Utah where dry conditions can be reasonably achieved. NWP general permit conditions 3, 11, and 12 partially address concerns the DWQ has, but are ultimately insufficient. NWP general condition 3 as described in 80 FR 57298, 57385 states *"activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized"*, condition 11 as described in 80 FR 57298, 57386 states *"heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance"* and condition 12 as described in 80 FR 57298, 57386 states *"appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides."*

General condition 3 as written does not adequately protect fish spawning, as required by Utah WQS and Antidegradation Policy. Certain activities/discharges (e.g. sediment discharges, streambed alteration, streambank alteration (fish habitat)) permitted through a USACE Section 404 permit to waterbodies during spawning season (in a waterbody where spawning may occur), will likely impact fish spawning. Activities/ discharges approved through a USACE Section 404 permit could have significant impacts to turbidity, DO, temperature, available substrate, and available habitat, which subsequently can have significant impacts to spawning. The impairment

of fish spawning is not considered a temporary and limited impact and therefore does not meet Utah's antidegradation policy found in UAC R317-2-3.5. An impairment of fish spawning may also impact whether the waterbody can maintain is designated beneficial uses, as it relates to aquatic wildlife use classes. Utah's rules promulgating standards of quality for waters of the State affirm "it shall be unlawful and a violation of these rules for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated" UAC R317-2-7.1.a.

General conditions 11 and 12, as stated above, do begin to address the use of machinery and timing of projects in WOTUS in the State of Utah, but additional conditions are necessary to meet Utah WQS. Condition 11 addresses work being conducted in wetlands that are considered WOTUS in the State of Utah, but does not address machinery use in open waterbodies or streams. Construction machinery used within a waterbody can cause significant impacts to water quality if adequate precautions are not taken. When it is unavoidable to operate construction machinery within the waterbody the project proponent should focus on minimizing the duration of the disturbance, turbidity increase, substrate disturbance, removal of riparian vegetation, and work shall be conducted in the "dry" to the maximum extent practicable. Minimizing the duration of impact reduces the chance that the impacts will accumulate and cause significant impacts to water quality. Minimizing turbidly increases is important because the State of Utah has numeric water quality criteria for turbidity in certain use designations, which could be violated if the project proponent does not take proper steps to minimize the increases. Water quality criteria for turbidity will be violated if there is an increase of 10 NTUs in waterbodies with designated uses related to recreation and if there is an increase of 10 NTUs (3A & 3B) or 15 NTUs (3C & 3D) in waterbodies with aquatic wildlife designated uses. UAC R317-2-14.1 and UAC R317-2-14.2. Conducting work in the "dry" to the maximum extent practicable will help reduce the risk of the numeric criteria for turbidity to be exceeded, as well as reduce the risk of a significant sediment load being transported downstream. Discharges of sediment can not only violate numeric criteria, but also, risk violating Utah's narrative standard "It shall be unlawful, and a violation of these rules, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures; or determined by biological assessments in Subsection R317-2-7.3." UAC R317-2-7.2. Violations of numeric and narrative criteria could cause a waterbody not to meet its designated beneficial use and a transport of sediment downstream could prevent a downstream waterbody from meeting its designated beneficial uses. As required by Utah's Antidegradation policy UAC R317-2-3.1 "Existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses.". Additionally, "All actions to control waste discharges under these rules shall be modified as necessary to protect downstream designated uses." UAC R317-2-8. As stated in UAC R317-15-6.1 the Director will ordinarily consider whether the proposed discharge "impairs the designated

beneficial use classifications (e.g., aquatic life, drinking water, recreation) in Section R317-2-6" UAC R317-15-6.1.A.1., "exceeds water quality criteria, either narrative or numeric, in Section R317-2-7" UAC R317-15-6.1A.2. or "fails to meet the antidegradation (ADR) requirements of Section R317-2-7" UAC R317-15-6.1.A.3 when making a certification decision.

Citation(s): UAC R317-2-3.5. , UAC R317-2-7.1.a., UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-7.2. , UAC R317-2-3.1, UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1, UAC R317-15-6.1A.2., UAC R317-15-6.1.A.3.

VII. Denials

NWPs for Projects that involve dam maintenance/rehabilitation or reservoir dewatering are denied and must apply for individual certification from the Director because they have the potential to discharge massive amounts of sediment if not properly regulated and administered. As stated in justification1a, the DWQ has concerns with projects that have potential to discharge large quantities of sediment into waterbodies. Projects such as dam maintenance/rehabilitation or reservoir dewatering that involve potential release of large quantities of sediment, either as part of project activities or inadvertently, have potential for catastrophic impacts to water quality. For example, in August 2016, the Tibble Fork Dam had an unplanned release of approximately 8,700 cubic yards of sediment from the Tibble Fork Reservoir into the North Fork of the American Fork River, causing a fish kill of about 5,250 fish. Samples taken revealed sediment concentrations of heavy metals (arsenic, cadmium, lead, and Zinc) in excess of EPA Region 3 Freshwater Sediment Screening Values for aquatic life and human health-based concentration for lead. The project had been permitted under a USACE Section 404 NWP, but the DWQ was unaware of the project. If the DWQ had the opportunity to review the project prior to USACE NWP issuance, impacts may have been prevented or at least minimized by adding project-specific conditions or additional oversight to the project. To avoid future violations and catastrophic releases, the DWQ is requiring individual permits for these types of projects.

Citation(s): UAC R317-2-14.1, UAC R317-2-14.2., UAC R317-2-7.1.a., UAC R317-2-8. , UAC R317-15-6.1, UAC R317-15-6.1.A.1., UAC R317-15-6.1.A.2., UAC R317-15-6.1.A.3.

VIII. Disclaimers

1.) This Section 401 Certification does not preclude the applicant's responsibility to comply with all applicable Federal, State or local laws, regulations or ordinances, including WQS. Permit coverage does not release the applicant from any liability or penalty, should violations to the permit terms and conditions or Federal or State Laws occur.

2.) Applicants must acquire all necessary easements, access authorizations and permits to ensure they are able to implement the project. This Section 401 Certification does not convey any property rights or exclusive privileges, nor does it authorize access or injury to private property.

IX. Public Notice and Comments

1.) **Public Notice Dates:** November 5, 2020 – December 7, 2020

2.) **Public Notice Comments, Response, and Actions:** The NWP 401 Certification received one comment.

(a) Comment 1

- Comment 1: The USACE requested that "USACE" be replaced with "prospective permittee" or "project proponent" when referring to condition requirements.

- Comment 1 Response: The USACE was advised that the request was reasonable and would be considered during finalization of the Certification.

- Comment 1 Action: The DWQ replaced "USACE" with "project proponent" in two locations at the request of the USACE. The changes were not significant and overall did not impact the conditions. Since this change was not considered major, the Certification will not be Public Noticed again.

3.) During finalization of the Certification certain dates, spelling edits, and minor language or formatting corrections may have been completed. Due to the nature of these changes they were not considered major and the Certification will not be Public Noticed again.

X. Water Quality Certification

The Utah Division of Water Quality Certifies that if projects issued under the USACE Nationwide Permits adhere to the conditions outlined in this certification, adhere to Sacramento Districts Regional Conditions, and adhere to any conditions outlined in the proposed NWPs then the projects will comply with water quality requirements and applicable provisions of the Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303(Water Quality Standards and Implementation Plans), 306(National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

Erica Brown Gaddis PhD, Director

12/08/2020
Date

XI. References

Division of Water Quality. 2016. Utah's Final 2016 Integrated Report. Salt lake City, Utah. Utah Department of Environmental Quality.

Available at: https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf

Proposal To Reissue and Modify Nationwide Permits, 85 FR 57298 (September 15, 2020).

Available at: https://www.federalregister.gov/documents/2020/09/15/2020-17116/proposal-to-reissue-and-modify-nationwide-permits

Attachment 1: Project Proponent Resources

Project Proponent Resources

Best Management Practices for Construction Sites: https://deq.utah.gov/sbeap/best-management-practices-for-construction-sites

Utah DEQ Interactive Map: https://enviro.deq.utah.gov/

EPA's Final "Clean Water Act Section 401 Certification Rule" : https://www.epa.gov/sites/production/files/2020-07/documents/clean_water_act_section_401_certification_rule.pdf

Approved TMDLs in the State of Utah: https://deq.utah.gov/water-quality/watershed-monitoring-program/approved-tmdls-watershed-management-program

APPENDIX F

Microbialite Survey Memorandum 2025 Commercial Plant

Memo

Date:	Tuesday, August 26, 2025
Project:	Waterleaf Resources Project Gecko
To:	Steve Morrey, Ryan Clerico, Project File
From:	Nate Nichols, HDR
Subject:	Microbialite survey results August 22, 2025

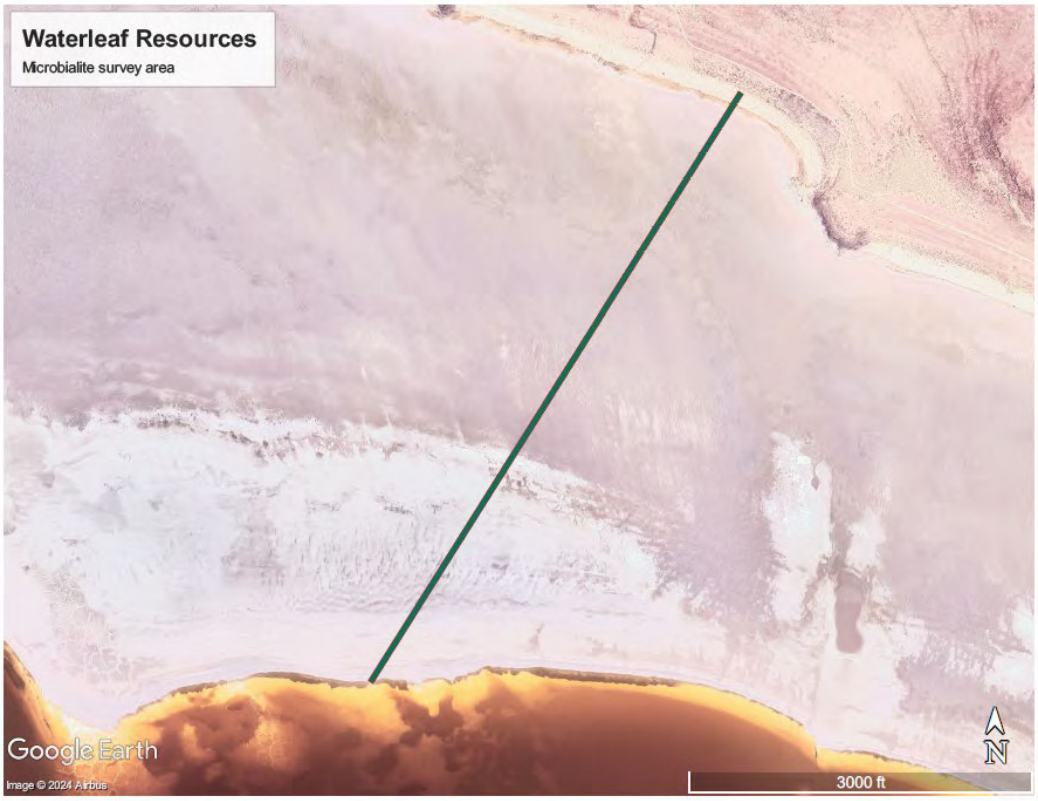
In accordance with Waterleaf Resources' Draft Operator Certification document, HDR conducted a pedestrian survey of Forestry, Fire and State Land easement associated with the Great Salt Lake Phase 1 Lithium Extraction Project (Commercial Plant) intake infrastructure installation area. This data will serve as baseline conditions for installation infrastructure for future commercial operations in the same area.

Background

The intake and outfall infrastructure would be constructed from the Commercial Plant location on the western slope of the Promontory Mountains, to the open waters of the North Arm (Gunnison Bay) of the GSL as shown in the survey area figure below. The infrastructure area can be described as exposed lakebed and hypersaline waters. Recent Utah Geological Survey (UGS) mapping has identified the western, eastern, and southeastern shoreline areas in the North Arm that might contain microbialites (UGS 2021). Microbialite structures provide a food source for brine shrimp and brine flies (Baxter 2020). However, research has documented that, due to limited availability of nutrients, the North Arm microbialite structures have lower mass, productivity, and/or diversity compared to microbialites in the South Arm (Baxter 2020).

Prior to construction of the Commercial lithium Extraction plant, Waterleaf is required to conduct a survey of the construction area to identify the existence of these important habitat structures in the project area. If microbialites are inventoried in the project area, Waterleaf would take measures to avoid impacts to the structures.

Survey Area



Results

Previous to this pedestrian survey, the centerline of the proposed easement on FFSLs was staked from the ordinary high-water mark to the GSL water's edge where inlet and outfall structures would be located. From this centerline, a 50-foot buffer on either side was surveyed by foot for any microbialite structures to a depth of 3.5 feet into the GSL. At this point the lake sediments were no longer visible. Any lake sediments which appeared to contain microbialite structures that would be impacted by installation of intake and outfall pipes were noted.

No microbialite structures were noted during the pedestrian survey. Lakebed sediments above the current water level consisted of hard, compacted silty/sand material from GLS OHWM for approximately 0.7 miles (3500 ft). After which, the lake sediments consisted exclusively of loose, sandy material with some salt crusting observed a depth of 3.5 feet into GSL waters

It was noted that a low ground pressure UTV was used to travel the length of the survey area, which was also utilized during the recently completed demonstration plant operation, and did not impact any existing microbialites or habitat.

Representative Photos



Centerline staking, looking West.



Representative of hard packed silty sand material, looking West.



Transition to salt crusted material, looking West, Southwest



Transition into open water, Looking West



Salt Crust and fine sand 0-1 foot of water



1 to 3.5+ feet representative photo looking West

APPENDIX G

Great Salt Lake Brine Dispersion Modeling Report

APPENDIX H

Commercial Plant Long-term Effect on Gilbert Bay Chemistry

Great Salt Lake Mass Balance - Impact of Waterleaf Operations

06th February 2026

Methodology Overview

The model applies a monthly, mass-conserving balance to simulate concentration changes in the Great Salt Lake North and South Arms over a 10-year period for conservative ions affected by the Waterleaf process through either positive (mass addition) or negative (mass removal) loading. Each component is simulated under five scenarios (1a-1e) incorporating multiple forecast lake level conditions, breach flow rates, and third-party extraction scenarios. Scenarios 1a to 1c are consistent with the assumptions and inputs used in the dispersion model study, while the additional scenarios 1d and 1e extend the analysis to test sensitivity to alternative breach configurations.

Model outputs are generated for both "with Waterleaf operations" and "without Waterleaf operations" cases to quantify the incremental effect of Waterleaf activities on North and South Arm average concentrations.

Forecast lake levels are based on the Utah Great Salt Lake Strike Team projections and historical lake data. Levels were sampled at monthly time steps and converted to corresponding arm volumes using the project bathymetry (level–volume) relationships. Exchange across the breach is represented explicitly in both directions (South → North and North → South). For each month, the mass transferred across the breach is calculated using scenario-specific breach flow rates and the concentration in the source arm.

Additional operational mass terms include (i) Compass extraction, modelled as a volume-based withdrawal and converted to a mass removal rate using the North Arm concentration, and (ii) Waterleaf commercial mass loading/extraction, applied as a component-specific mass term consistent with the input assumptions. To maintain numerical stability and avoid circular dependency, concentration-dependent mass transfer terms (including breach transfers and Compass extraction) are calculated using the previous month's concentration. The arm mass loads are then updated sequentially each month, and concentrations are recalculated from the updated loads and corresponding arm volumes.

For components for which dissolved concentration is not expected to scale linearly with net mass under Great Salt Lake conditions, the same monthly mass balance framework is applied to quantify net and cumulative mass loading or removal attributable to Waterleaf operations, and results are expressed in terms of mass change rather than concentration.

Inputs

Plant mass loading

Nominal Commercial Operating Case (5,000 TPA LCE)

Plant mass loading to the lake was calculated from the difference between influent and effluent concentrations combined with intake and outtake volumetric flow rates, and expressed as annual mass loads representative of a 5,000 tpa LCE Lithium commercial operation (Table 1). Negative values indicate a net removal of mass from the lake (extraction), while positive values indicate a net addition to the lake.

Components identified by marker (1) were treated as primarily conservative over the concentration ranges evaluated; for these components, results are reported in terms of both mass load and corresponding concentration.

Table 1 – Commercial Plant Mass Loading Assumptions to the North Arm (average nominal calculations, related to 5,000tpa LCE)

Constituent	Influent Concentration (mg/L)	Influent Loading (lb/yr)	Effluent Concentration (mg/L)	Effluent Loading (lb/yr)	Mass Loading to Lake (lb/yr)	Mass Loading to Lake (tonnes/yr)	Mass Loading to Lake (tons/yr)
Aluminum	1.65	63668.6	1.49	58118.7	-5549.9	**-2.52**	**-2.77**
Arsenic	0.51	19745.1	0.36	13951.9	-5793.1	**-2.63**	**-2.90**
Barium	0.20	7864.0	0.18	7070.7	-793.2	**-0.36**	**-0.40**
Boron (1)	61.97	2391415.5	59.50	2321256.0	-70159.6	**-31.82**	**-35.08**
Bromine (1)	177.9	6865205.3	166.2	6484620.1	-380585.2	**-172.63**	**-190.29**
Calcium	308.64	11910507.7	300.2	11711921.9	-198585.7	**-90.08**	**-99.29**
Chloride (1)	183942.01	7098478909.4	182006.5	7100903590.6	2424681.2	**1099.82**	**1212.34**
Iron	0.57*	22093.4	0.57*	22117.1	23.7	**0.01**	**0.01**
Lead	0.01*	335.7	0.01*	351.6	15.9	**0.01**	**0.01**
Lithium (1)	68.0	2624160.3	14.2	554335.2	-2069825.1	**-938.86**	**-1034.91**
Magnesium (1)	14633.54	564720950.1	14461.9	564223719.2	-497230.9	**-225.54**	**-248.62**
Manganese	0.04	1398.0	0.04	1413.4	15.4	**0.01**	**0.01**
Molybdenum	0.14	5554.3	0.13	4950.6	-603.7	**-0.27**	**-0.30**
Potassium (1)	8720.58	336534698.7	8626.5	336558912.0	24213.3	**10.98**	**12.11**
Selenium	0.54	20887.0	0.53	20635.2	-251.8	**-0.11**	**-0.13**
Silica	6.06	233900.0	7.01	273516.4	39616.3	**17.97**	**19.81**
Sodium	98464.32	3799822087.6	97741.6	3813345429.6	13523342.0	**6134.08**	**6761.67**
Sulfate	26975.64	1041012835.3	27202.4	1061290649.1	20277813.8	**9197.86**	**10138.91**

* using MDL when ND

Maximum Loading Case (design flow rates, no downtime)

In addition to the nominal operating case, a maximum loading sensitivity case was evaluated assuming continuous operation at up to 115% of nominal throughput, consistent with the design flow rates, with no allowance for downtime (the nominal case uses 90% plant availability). Results are summarized in Table 2.

Table 2 – Maximum loading case

Constituent	Influent Concentration (mg/L)	Influent Loading (lb/yr)	Effluent Concentration (mg/L)	Effluent Loading (lb/yr)	Mass Loading to Lake (lb/yr)	Mass Loading to Lake (tonnes/yr)	Mass Loading to Lake (tons/yr)
Aluminum	1.65	1.65	81,354.3	1.5	74,262.8	-7091.5	-3.22
Arsenic	0.51	0.51	25,229.8	0.4	17,827.5	-7402.3	-3.36
Barium	0.20	0.20	10,048.4	0.2	9,034.8	-1013.6	-0.46
Boron (1)	61.97	61.97	3,055,697.6	59.5	2,966,049.3	-89648.3	-40.66
Bromine (1)	177.9	177.90	8,772,206.8	166.2	8,285,903.5	-486303.3	-220.58
Calcium	308.64	308.64	15,218,982.0	300.2	14,965,233.5	-253748.5	-115.10
Chloride (1)	183942.01	183,942.01	9,070,278,606.4	182,006.5	9,073,376,810.2	3098203.8	1405.32
Iron	0.57*	0.57 *	28,230.4	0.6	28,260.7	30.3	0.01
Lead	0.01*	0.01 *	429.0	0.0	449.3	20.3	0.01
Lithium (1)	68.0	68.00	3,353,093.7	14.2	708,317.2	-2644776.5	-1199.65
Magnesium (1)	14633.54	14,633.54	721,587,880.7	14,461.9	720,952,530.1	-635350.6	-288.19
Manganese	0.04	0.04	1,786.4	0.0	1,806.0	19.7	0.01
Molybdenum	0.14	0.14	7,097.1	0.1	6,325.7	-771.4	-0.35
Potassium (1)	8720.58	8,720.58	430,016,559.4	8,626.5	430,047,498.7	30939.3	14.03
Selenium	0.54	0.54	26,689.0	0.5	26,367.2	-321.7	-0.15
Silica	6.06	6.06	298,872.3	7.0	349,493.2	50620.9	22.96
Sodium	98464.32	98,464.32	4,855,328,223.1	97,741.6	4,872,608,048.9	17279825.9	7838.00
Sulfate	26975.64	26,975.64	1,330,183,067.3	27,202.4	1,356,093,607.2	25910539.9	11752.82

* using MDL when ND

Lake Level Scenarios

Three lake level scenarios were considered to represent a reasonable range of future Great Salt Lake elevations based on observed historical behaviour and the Utah Great Salt Lake Strike Team lake level projections (2025). The Strike Team base case mean projection was adopted as the central case (1b), and provides the baseline forecast used for assessing expected lake-level evolution under current assumptions. Two additional scenarios were included to bound potential outcomes around this central forecast. The first is a continued-decline scenario (1a) in which lake levels decrease at approximately 0.35 ft/year based on the historical average over the period 2000-2025, representing persistently negative water balance conditions relative to the baseline. The second is a Strike Team conservation scenario (1c) consistent with enhanced inflow conditions with an incremental +250,000 acre-ft/year in inflow. Together, these three scenarios provide a practical range for evaluating concentration under plausible future lake-level conditions.

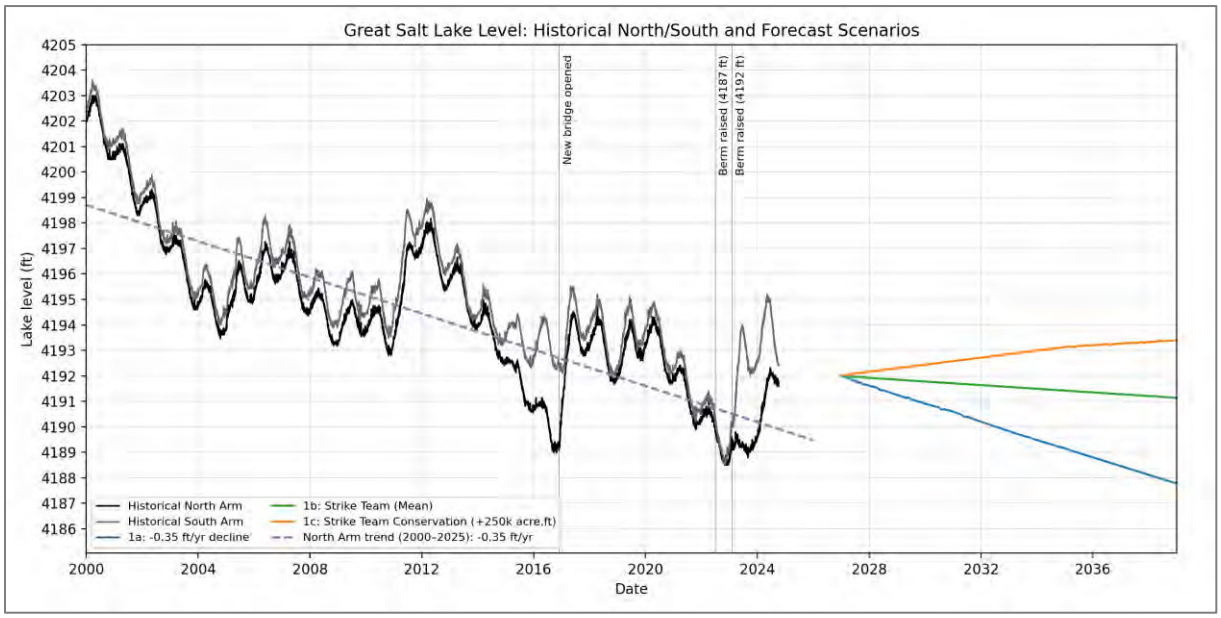


Figure 1 – Projected Lake Levels

Table 3 – Lake Level Assumptions

Scenario	Lake Level Scenario	Comment
1a (Low lake level)	0.35 ft/year	Unidirectional flow
1b (Mid Lake level)	Strike Team Base (Mean)	Unidirectional flow
1c (High Lake Level)	Strike Team Conservation +250kacre.ft/y (Mean)	Unidirectional flow
1d (Mid lake level, lowered berm)	Strike Team Base (Mean)	Bidirectional flow based on 2022 data
1e (Mid lake level, lowered berm)	Strike Team Base (Mean)	Bidirectional flow based on 2021 data

Breach Assumptions

Following the breach modifications implemented in 2022, flow exchange between the South and North Arms is interpreted to be predominantly unidirectional from the South Arm to the North Arm based on the analysis of the USGS breach flow data. Under these conditions, Waterleaf operations influence North Arm mass load and concentrations, while the South Arm concentration remains effectively unchanged by Waterleaf activity (i.e., the South Arm acts as an upstream boundary condition for breach inflow).

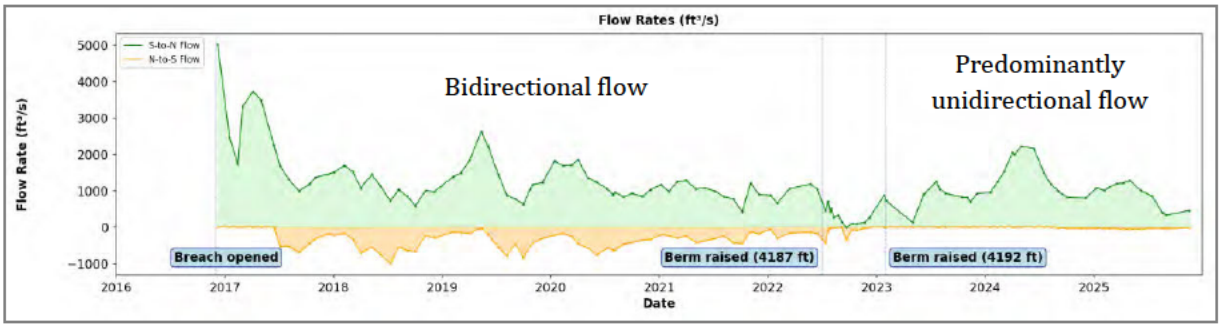


Figure 2- Breach instantaneous flow rates

Table 4 – Yearly Average Flow Rates across the breach

Year	S-to-N Flow (ft^3/s)	N-to-S Flow (ft^3/s)	Net Flow to N (ft^3/s)	% N-S Flow / over total exchange
2017	2,105	-228	1,877	9.8%
2018	1,125	-508	617	31.1%
2019	1,432	-348	1,084	19.6%
2020	1,254	-430	824	25.5%
2021	989	-286	703	22.4%
2022	623	-134	489	17.7%
2023	750	0	750	0.0%
2024	1,375	-10	1,365	0.7%
2025	848	-35	813	4.0%

Contingency scenarios 1d and 1e were also included to represent conditions under which the berm crest may be lowered, resulting in a return to bidirectional exchange across the breach observed in 2021 (1e) and 2022 (1d). These scenarios are important for sensitivity testing because a resumed North → South transfer pathway would allow Waterleaf-related changes in the North Arm to propagate back into the South Arm under certain lake-level conditions.

Several breach exchange cases were evaluated to represent a practical range of plausible long term flow regimes. These cases include combinations of South → North, and North → South breach flow rates consistent with the current raised-berm configuration and a potential bidirectional configuration. The breach flows applied in the model are summarised below:

Table 5 – Breach Flow Rate Assumptions

Scenario	S-to-N Flow (ft^3/s)	N-to-S Flow (ft^3/s)	Comment
1a (Low lake level)	179	0	Unidirectional flow
1b (Mid Lake level)	448	0	Unidirectional flow
1c (High Lake Level)	622	0	Unidirectional flow
1d (Mid lake level, lowered berm)	623	-134	Bidirectional flow based on 2022 data
1e (Mid lake level, lowered berm)	989	-286	Bidirectional flow based on 2021 data

Compass Extraction Scenarios

Several Compass Minerals extraction scenarios were evaluated to reflect the range of historical withdrawals and their dependence on lake level. The underlying assumption is that extraction is constrained at lower lake levels (reduced pumping and/or operational limitations) and can be higher at higher lake levels, consistent with historical operating patterns.

Table 6 – Compass Mineral Historical Extraction Rates

Year	Average North Arm water surface elevation above NGVD 1929 (ft)	Compass Minerals Extraction (acre.ft/yr)	Compass Minerals Extraction (ft^3/s)
2017	4193.14	-110,048	-152
2018	4193.03	-115,116	-159
2019	4193.08	-71,676	-99
2020	4193.05	-104,256	-144
2021	4191.20	-109,324	-151
2022	4189.70	-55,024	-76
2023	4189.25	-52,128	-72
2024	4191.37	-13,032	-18
2025	4191.78	Not available	Not available

These scenarios were developed using the historical Compass extraction rate data (expressed as annual withdrawal volume) and the associated lake level records. The historical dataset shows that higher extraction volumes typically coincide with periods of higher lake elevation, while extraction volumes decline as lake level decreases. This relationship was used to define both fixed and lake-level-dependent (variable) extraction cases:

Table 7 – Compass Mineral Projected Extraction Rates Assumptions

Scenario	Compass Extraction (acre.ft/y)	Comment
1a (Low lake level)	53,000 declining to 0 as the level reduces to 4188ft	Unidirectional flow
1b (Mid Lake level)	53,000	Unidirectional flow
1c (High Lake Level)	112,000	Unidirectional flow
1d (Mid lake level, lowered berm)	53,000	Bidirectional flow based on 2022 data
1e (Mid lake level, lowered berm)	53,000	Bidirectional flow based on 2021

South Arm Concentrations

USGS monitoring data over the period 2020-2025 were used to define South Arm concentrations for each component included in the mass balance. Where direct South Arm concentration measurements were not available for a given ion, concentrations were estimated using South Arm salinity as a proxy, applying consistent scaling to preserve the expected ionic composition under South Arm brine conditions. These concentrations were treated as fixed boundary conditions for South → North breach inflow in the modelled scenarios.

Observed South Arm concentrations are relatively stable over time, with variability typically within approximately ±25%, primarily driven by changes in inflow and any return flow from the more saline North Arm. The raised berm has been effective in reducing North → South exchange and thereby reducing South Arm concentrations. Consistent with this behaviour, multiple South Arm concentration scenarios were evaluated to capture plausible variability, aligned with the lake level projections and breach flow assumptions applied elsewhere in the modelling.

Table 8 - South Arm Concentrations Assumptions

Scenario	1a (Low lake level), mg/L	1b (Mid Lake level), mg/L	1c (High Lake Level), mg/L	1d (Mid lake level, lowered berm), mg/L	1e (Mid lake level, lowered berm), mg/L
Aluminum	0.6	0.6	0.4	0.7	0.7
Arsenic	0.2	0.2	0.1	0.2	0.2
Barium	0.1	0.1	0.1	0.1	0.1
Boron	18.6	18.6	13.4	21.2	21.2
Bromine	50.6	50.6	36.5	57.8	57.8
Calcium	232.0	232.0	167.0	264.9	264.9
Chloride	71424.0	71424.0	51425.3	81547.1	81547.1
Iron	0.2	0.2	0.1	0.2	0.2

Lead	0.0	0.0	0.0	0.0	0.0
Lithium	25.0	25.0	18.0	28.5	28.5
Magnesium	4973.9	4973.9	3581.2	5678.9	5678.9
Manganese	0.0	0.0	0.0	0.0	0.0
Molybdenum	0.1	0.1	0.0	0.1	0.1
Potassium	2969.4	2969.4	2138.0	3390.3	3390.3
Selenium	0.2	0.2	0.1	0.2	0.2
Silica	2.2	2.2	1.6	2.5	2.5
Sodium	39278.4	39278.4	28280.4	44845.4	44845.4
Sulfate	8326.5	8326.5	5995.1	9506.6	9506.6

Summary of all Scenarios (average nominal calculations, related to 5,000tpa LCE)

Nominal Commercial Operating Case (5,000 TPA LCE)

Table 9 – Scenarios (average nominal calculations, related to 5,000tpa LCE)

Component	Scenario	Lake level scenario (North)	Breach Flow Rate S to N (ft3/s)	Breach Flow Rate N to S (ft3/s)	Compass extraction, acre.ft/yr	Waterleaf Li extraction, tonnes, LCE/yr	Component Mass Loading to Lake (North), tonnes/yr	Initial Component Concentration (North), mg/L	Initial Component Concentration (South), mg/L
Aluminum	1a	1a	179.1	0	Variable	5000	-2.517	1.6	0.6
Aluminum	1b	1b	447.9	0	-53000	5000	-2.517	1.6	0.6
Aluminum	1c	1c	622.1	0	-112000	5000	-2.517	1.6	0.4
Aluminum	1d	1b	623	134	-53000	5000	-2.517	1.6	0.7
Aluminum	1e	1b	989	286	-53000	5000	-2.517	1.6	0.7
Arsenic	1a	1a	179.1	0	Variable	5000	-2.628	0.5	0.2
Arsenic	1b	1b	447.9	0	-53000	5000	-2.628	0.5	0.2
Arsenic	1c	1c	622.1	0	-112000	5000	-2.628	0.5	0.1
Arsenic	1d	1b	623	134	-53000	5000	-2.628	0.5	0.2
Arsenic	1e	1b	989	286	-53000	5000	-2.628	0.5	0.2
Barium	1a	1a	179.1	0	Variable	5000	-0.360	0.2	0.1
Barium	1b	1b	447.9	0	-53000	5000	-0.360	0.2	0.1
Barium	1c	1c	622.1	0	-112000	5000	-0.360	0.2	0.1
Barium	1d	1b	623	134	-53000	5000	-0.360	0.2	0.1
Barium	1e	1b	989	286	-53000	5000	-0.360	0.2	0.1
Boron	1a	1a	179.1	0	Variable	5000	-31.824	62.0	18.6
Boron	1b	1b	447.9	0	-53000	5000	-31.824	62.0	18.6
Boron	1c	1c	622.1	0	-112000	5000	-31.824	62.0	13.4
Boron	1d	1b	623	134	-53000	5000	-31.824	62.0	21.2
Boron	1e	1b	989	286	-53000	5000	-31.824	62.0	21.2
Bromine	1a	1a	179.1	0	Variable	5000	-172.631	177.9	50.6
Bromine	1b	1b	447.9	0	-53000	5000	-172.631	177.9	50.6
Bromine	1c	1c	622.1	0	-112000	5000	-172.631	177.9	36.5
Bromine	1d	1b	623	134	-53000	5000	-172.631	177.9	57.8
Bromine	1e	1b	989	286	-53000	5000	-172.631	177.9	57.8
Calcium	1a	1a	179.1	0	Variable	5000	-90.077	308.6	232.0

Calcium	1b	1b	447.9	0	-53000	5000	-90.077	308.6	232.0
Calcium	1c	1c	622.1	0	-112000	5000	-90.077	308.6	167.0
Calcium	1d	1b	623	134	-53000	5000	-90.077	308.6	264.9
Calcium	1e	1b	989	286	-53000	5000	-90.077	308.6	264.9
Chloride	1a	1a	179.1	0	Variable	5000	1099.817	183942.0	71424.0
Chloride	1b	1b	447.9	0	-53000	5000	1099.817	183942.0	71424.0
Chloride	1c	1c	622.1	0	-112000	5000	1099.817	183942.0	51425.3
Chloride	1d	1b	623	134	-53000	5000	1099.817	183942.0	81547.1
Chloride	1e	1b	989	286	-53000	5000	1099.817	183942.0	81547.1
Iron	1a	1a	179.1	0	Variable	5000	0.011	0.6	0.2
Iron	1b	1b	447.9	0	-53000	5000	0.011	0.6	0.2
Iron	1c	1c	622.1	0	-112000	5000	0.011	0.6	0.1
Iron	1d	1b	623	134	-53000	5000	0.011	0.6	0.2
Iron	1e	1b	989	286	-53000	5000	0.011	0.6	0.2
Lead	1a	1a	179.1	0	Variable	5000	0.007	0.0	0.0
Lead	1b	1b	447.9	0	-53000	5000	0.007	0.0	0.0
Lead	1c	1c	622.1	0	-112000	5000	0.007	0.0	0.0
Lead	1d	1b	623	134	-53000	5000	0.007	0.0	0.0
Lead	1e	1b	989	286	-53000	5000	0.007	0.0	0.0
Lithium	1a	1a	179.1	0	Variable	5000	-938.857	68.0	25.0
Lithium	1b	1b	447.9	0	-53000	5000	-938.857	68.0	25.0
Lithium	1c	1c	622.1	0	-112000	5000	-938.857	68.0	18.0
Lithium	1d	1b	623	134	-53000	5000	-938.857	68.0	28.5
Lithium	1e	1b	989	286	-53000	5000	-938.857	68.0	28.5
Magnesium	1a	1a	179.1	0	Variable	5000	-225.540	14633.5	4973.9
Magnesium	1b	1b	447.9	0	-53000	5000	-225.540	14633.5	4973.9
Magnesium	1c	1c	622.1	0	-112000	5000	-225.540	14633.5	3581.2
Magnesium	1d	1b	623	134	-53000	5000	-225.540	14633.5	5678.9
Magnesium	1e	1b	989	286	-53000	5000	-225.540	14633.5	5678.9
Manganese	1a	1a	179.1	0	Variable	5000	0.007	0.0	0.0
Manganese	1b	1b	447.9	0	-53000	5000	0.007	0.0	0.0
Manganese	1c	1c	622.1	0	-112000	5000	0.007	0.0	0.0
Manganese	1d	1b	623	134	-53000	5000	0.007	0.0	0.0
Manganese	1e	1b	989	286	-53000	5000	0.007	0.0	0.0
Molybdenum	1a	1a	179.1	0	Variable	5000	-0.274	0.1	0.1
Molybdenum	1b	1b	447.9	0	-53000	5000	-0.274	0.1	0.1
Molybdenum	1c	1c	622.1	0	-112000	5000	-0.274	0.1	0.0

Molybdenum	1d	1b	623	134	-53000	5000	-0.274	0.1	0.1
Molybdenum	1e	1b	989	286	-53000	5000	-0.274	0.1	0.1
Potassium	1a	1a	179.1	0	Variable	5000	10.983	8720.6	2969.4
Potassium	1b	1b	447.9	0	-53000	5000	10.983	8720.6	2969.4
Potassium	1c	1c	622.1	0	-112000	5000	10.983	8720.6	2138.0
Potassium	1d	1b	623	134	-53000	5000	10.983	8720.6	3390.3
Potassium	1e	1b	989	286	-53000	5000	10.983	8720.6	3390.3
Selenium	1a	1a	179.1	0	Variable	5000	-0.114	0.5	0.2
Selenium	1b	1b	447.9	0	-53000	5000	-0.114	0.5	0.2
Selenium	1c	1c	622.1	0	-112000	5000	-0.114	0.5	0.1
Selenium	1d	1b	623	134	-53000	5000	-0.114	0.5	0.2
Selenium	1e	1b	989	286	-53000	5000	-0.114	0.5	0.2
Silica	1a	1a	179.1	0	Variable	5000	17.970	6.1	2.2
Silica	1b	1b	447.9	0	-53000	5000	17.970	6.1	2.2
Silica	1c	1c	622.1	0	-112000	5000	17.970	6.1	1.6
Silica	1d	1b	623	134	-53000	5000	17.970	6.1	2.5
Silica	1e	1b	989	286	-53000	5000	17.970	6.1	2.5
Sodium	1a	1a	179.1	0	Variable	5000	6134.085	98464.3	39278.4
Sodium	1b	1b	447.9	0	-53000	5000	6134.085	98464.3	39278.4
Sodium	1c	1c	622.1	0	-112000	5000	6134.085	98464.3	28280.4
Sodium	1d	1b	623	134	-53000	5000	6134.085	98464.3	44845.4
Sodium	1e	1b	989	286	-53000	5000	6134.085	98464.3	44845.4
Sulfate	1a	1a	179.1	0	Variable	5000	9197.862	26975.6	8326.5
Sulfate	1b	1b	447.9	0	-53000	5000	9197.862	26975.6	8326.5
Sulfate	1c	1c	622.1	0	-112000	5000	9197.862	26975.6	5995.1
Sulfate	1d	1b	623	134	-53000	5000	9197.862	26975.6	9506.6
Sulfate	1e	1b	989	286	-53000	5000	9197.862	26975.6	9506.6

Maximum Loading Case (design flow rates, no downtime)

Table 10 – Scenarios (maximum loading case – design flow rates, no downtime)

Component	Scenario	Lake level scenario (North)	Breach Flow Rate S to N (ft3/s)	Breach Flow Rate N to S (ft3/s)	Compass extraction, acre.ft/yr	Waterleaf Li extraction, tonnes, LCE/yr	Component Mass Loading to Lake (North), tonnes/yr	Initial Component Concentration (North), mg/L	Initial Component Concentration (South), mg/L
Aluminum	1a	1a	179.1	0	Variable	6389	-3.217	1.6	0.6
Aluminum	1b	1b	447.9	0	-53000	6389	-3.217	1.6	0.6
Aluminum	1c	1c	622.1	0	-112000	6389	-3.217	1.6	0.4
Aluminum	1d	1b	623	134	-53000	6389	-3.217	1.6	0.7
Aluminum	1e	1b	989	286	-53000	6389	-3.217	1.6	0.7
Arsenic	1a	1a	179.1	0	Variable	6389	-3.358	0.5	0.2
Arsenic	1b	1b	447.9	0	-53000	6389	-3.358	0.5	0.2
Arsenic	1c	1c	622.1	0	-112000	6389	-3.358	0.5	0.1
Arsenic	1d	1b	623	134	-53000	6389	-3.358	0.5	0.2
Arsenic	1e	1b	989	286	-53000	6389	-3.358	0.5	0.2
Barium	1a	1a	179.1	0	Variable	6389	-0.460	0.2	0.1
Barium	1b	1b	447.9	0	-53000	6389	-0.460	0.2	0.1
Barium	1c	1c	622.1	0	-112000	6389	-0.460	0.2	0.1
Barium	1d	1b	623	134	-53000	6389	-0.460	0.2	0.1
Barium	1e	1b	989	286	-53000	6389	-0.460	0.2	0.1
Boron	1a	1a	179.1	0	Variable	6389	-40.664	62.0	18.6
Boron	1b	1b	447.9	0	-53000	6389	-40.664	62.0	18.6
Boron	1c	1c	622.1	0	-112000	6389	-40.664	62.0	13.4
Boron	1d	1b	623	134	-53000	6389	-40.664	62.0	21.2
Boron	1e	1b	989	286	-53000	6389	-40.664	62.0	21.2
Bromine	1a	1a	179.1	0	Variable	6389	-220.583	177.9	50.6
Bromine	1b	1b	447.9	0	-53000	6389	-220.583	177.9	50.6
Bromine	1c	1c	622.1	0	-112000	6389	-220.583	177.9	36.5
Bromine	1d	1b	623	134	-53000	6389	-220.583	177.9	57.8
Bromine	1e	1b	989	286	-53000	6389	-220.583	177.9	57.8
Calcium	1a	1a	179.1	0	Variable	6389	-115.098	308.6	232.0
Calcium	1b	1b	447.9	0	-53000	6389	-115.098	308.6	232.0
Calcium	1c	1c	622.1	0	-112000	6389	-115.098	308.6	167.0

Calcium	1d	1b	623	134	-53000	6389	-115.098	308.6	264.9
Calcium	1e	1b	989	286	-53000	6389	-115.098	308.6	264.9
Chloride	1a	1a	179.1	0	Variable	6389	1405.322	183942.0	71424.0
Chloride	1b	1b	447.9	0	-53000	6389	1405.322	183942.0	71424.0
Chloride	1c	1c	622.1	0	-112000	6389	1405.322	183942.0	51425.3
Chloride	1d	1b	623	134	-53000	6389	1405.322	183942.0	81547.1
Chloride	1e	1b	989	286	-53000	6389	1405.322	183942.0	81547.1
Iron	1a	1a	179.1	0	Variable	6389	0.014	0.6	0.2
Iron	1b	1b	447.9	0	-53000	6389	0.014	0.6	0.2
Iron	1c	1c	622.1	0	-112000	6389	0.014	0.6	0.1
Iron	1d	1b	623	134	-53000	6389	0.014	0.6	0.2
Iron	1e	1b	989	286	-53000	6389	0.014	0.6	0.2
Lead	1a	1a	179.1	0	Variable	6389	0.009	0.0	0.0
Lead	1b	1b	447.9	0	-53000	6389	0.009	0.0	0.0
Lead	1c	1c	622.1	0	-112000	6389	0.009	0.0	0.0
Lead	1d	1b	623	134	-53000	6389	0.009	0.0	0.0
Lead	1e	1b	989	286	-53000	6389	0.009	0.0	0.0
Lithium	1a	1a	179.1	0	Variable	6389	-1199.650	68.0	25.0
Lithium	1b	1b	447.9	0	-53000	6389	-1199.650	68.0	25.0
Lithium	1c	1c	622.1	0	-112000	6389	-1199.650	68.0	18.0
Lithium	1d	1b	623	134	-53000	6389	-1199.650	68.0	28.5
Lithium	1e	1b	989	286	-53000	6389	-1199.650	68.0	28.5
Magnesium	1a	1a	179.1	0	Variable	6389	-288.190	14633.5	4973.9
Magnesium	1b	1b	447.9	0	-53000	6389	-288.190	14633.5	4973.9
Magnesium	1c	1c	622.1	0	-112000	6389	-288.190	14633.5	3581.2
Magnesium	1d	1b	623	134	-53000	6389	-288.190	14633.5	5678.9
Magnesium	1e	1b	989	286	-53000	6389	-288.190	14633.5	5678.9
Manganese	1a	1a	179.1	0	Variable	6389	0.009	0.0	0.0
Manganese	1b	1b	447.9	0	-53000	6389	0.009	0.0	0.0
Manganese	1c	1c	622.1	0	-112000	6389	0.009	0.0	0.0
Manganese	1d	1b	623	134	-53000	6389	0.009	0.0	0.0
Manganese	1e	1b	989	286	-53000	6389	0.009	0.0	0.0
Molybdenum	1a	1a	179.1	0	Variable	6389	-0.350	0.1	0.1
Molybdenum	1b	1b	447.9	0	-53000	6389	-0.350	0.1	0.1
Molybdenum	1c	1c	622.1	0	-112000	6389	-0.350	0.1	0.0
Molybdenum	1d	1b	623	134	-53000	6389	-0.350	0.1	0.1
Molybdenum	1e	1b	989	286	-53000	6389	-0.350	0.1	0.1

Potassium	1a	1a	179.1	0	Variable	6389	14.034	8720.6	2969.4
Potassium	1b	1b	447.9	0	-53000	6389	14.034	8720.6	2969.4
Potassium	1c	1c	622.1	0	-112000	6389	14.034	8720.6	2138.0
Potassium	1d	1b	623	134	-53000	6389	14.034	8720.6	3390.3
Potassium	1e	1b	989	286	-53000	6389	14.034	8720.6	3390.3
Selenium	1a	1a	179.1	0	Variable	6389	-0.146	0.5	0.2
Selenium	1b	1b	447.9	0	-53000	6389	-0.146	0.5	0.2
Selenium	1c	1c	622.1	0	-112000	6389	-0.146	0.5	0.1
Selenium	1d	1b	623	134	-53000	6389	-0.146	0.5	0.2
Selenium	1e	1b	989	286	-53000	6389	-0.146	0.5	0.2
Silica	1a	1a	179.1	0	Variable	6389	22.961	6.1	2.2
Silica	1b	1b	447.9	0	-53000	6389	22.961	6.1	2.2
Silica	1c	1c	622.1	0	-112000	6389	22.961	6.1	1.6
Silica	1d	1b	623	134	-53000	6389	22.961	6.1	2.5
Silica	1e	1b	989	286	-53000	6389	22.961	6.1	2.5
Sodium	1a	1a	179.1	0	Variable	6389	7837.997	98464.3	39278.4
Sodium	1b	1b	447.9	0	-53000	6389	7837.997	98464.3	39278.4
Sodium	1c	1c	622.1	0	-112000	6389	7837.997	98464.3	28280.4
Sodium	1d	1b	623	134	-53000	6389	7837.997	98464.3	44845.4
Sodium	1e	1b	989	286	-53000	6389	7837.997	98464.3	44845.4
Sulfate	1a	1a	179.1	0	Variable	6389	11752.823	26975.6	8326.5
Sulfate	1b	1b	447.9	0	-53000	6389	11752.823	26975.6	8326.5
Sulfate	1c	1c	622.1	0	-112000	6389	11752.823	26975.6	5995.1
Sulfate	1d	1b	623	134	-53000	6389	11752.823	26975.6	9506.6
Sulfate	1e	1b	989	286	-53000	6389	11752.823	26975.6	9506.6

Outputs

Impact on North Arm

The impact of Waterleaf operations on North Arm loads and concentrations was assessed by calculating mass load and concentration time series under both “with operations” and “without operations” cases. Initial dissolved mass loads for each component were derived from the concentrations in the North Arm and the corresponding lake volume. For each component, the incremental effect of Waterleaf was quantified as the percentage difference between the two cases, isolating the operational signal from background drivers such as lake level variation and breach inflow.

The cumulative impact after 10 years on the North Arm mass load and, where applicable, concentration is summarised in Table 11 for the Nominal case and Table 12 for the Maximum Loading Case in Table 12.

Across all modelled components, the impact of Waterleaf operations on North Arm mass load remains de minimis, with relative changes of less than 3.2% over 10 years of Operations for the Nominal case and 4.0% for the maximum loading case. For components expected to behave conservatively, the modelled impact on North Arm concentrations likewise remains less than 3.2% (nominal)/ 4.0 % (maximum loading), including for lithium.

In addition, the magnitude and direction of the modelled Waterleaf impacts are consistent across the range of scenarios evaluated. While absolute values vary with lake level, breach flow configuration, and Compass extraction assumptions, the overall Waterleaf response in both the North and South Arms remains similar across scenarios. This indicates that the modelled impacts are not highly sensitive to individual scenario assumptions and that the results presented are representative of expected conditions across plausible future lake-level and operational outcomes.

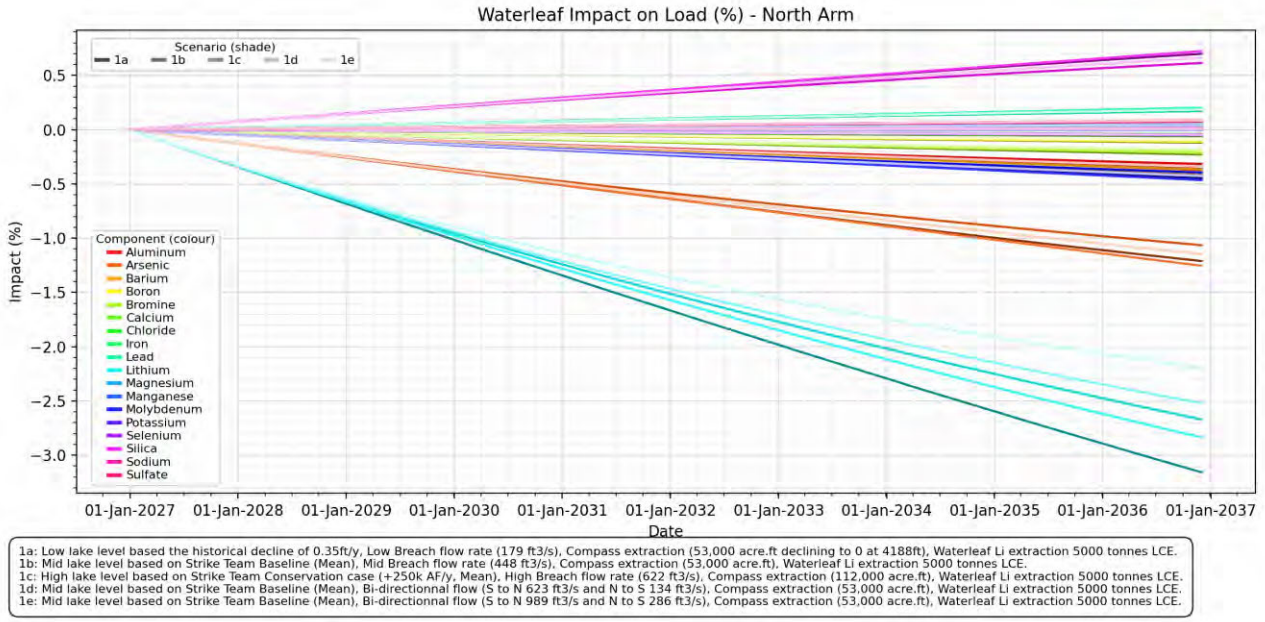


Figure 3 - Waterleaf Impact on Load (%), Nominal Case - North Arm

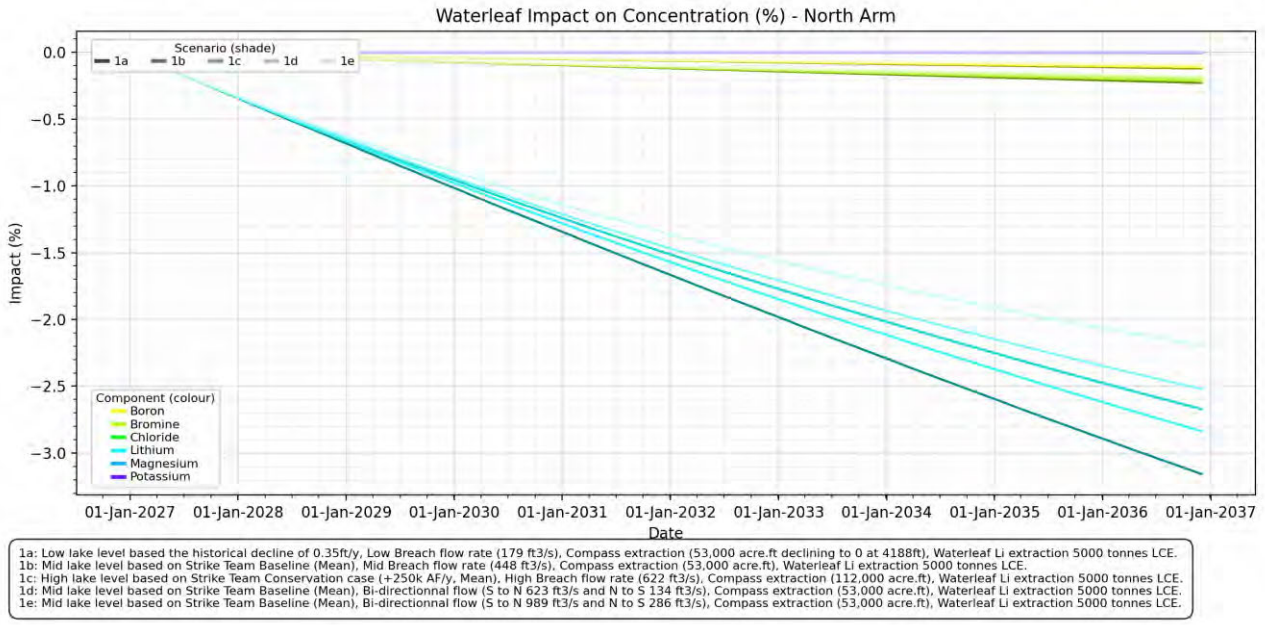


Figure 4 - Waterleaf Impact on Concentrations (%), Nominal Case - North Arm

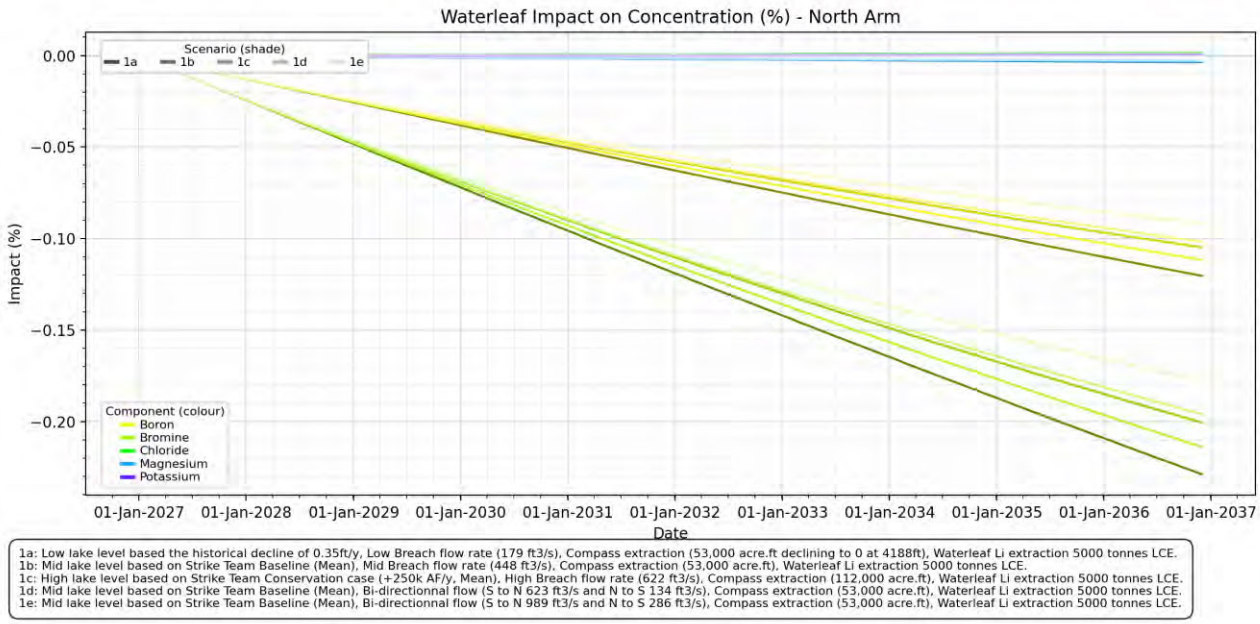


Figure 5 - Waterleaf Impact on Concentrations excluding Lithium (%), Nominal Case - North Arm

Table 11 - Impact of Waterleaf Operations on Component Load in the North Arm after 10 years (N, %) - Nominal Case

Scenario	1a (Low lake level), %	1b (Mid Lake level), %	1c (High Lake Level), %	1d (Mid lake level, lowered berm), %	1e (Mid lake level, lowered berm), %
Aluminum	-1.21	-0.32	-0.37	-0.32	-1.21
Arsenic	-1.15	-1.21	-1.07	-1.21	-1.15
Barium	-0.40	-0.42	-0.37	-0.42	-0.40
Boron	-0.09	-0.12	-0.10	-0.12	-0.09
Bromine	-0.18	-0.23	-0.20	-0.23	-0.18
Calcium	-0.03	-0.06	-0.05	-0.06	-0.03
Chloride	0.00	0.00	0.00	0.00	0.00
Iron	0.00	0.00	0.00	0.00	0.00
Lead	0.19	0.20	0.17	0.20	0.19
Lithium	-2.19	-3.16	-2.67	-3.16	-2.19
Magnesium	0.00	0.00	0.00	0.00	0.00
Manganese	0.04	0.05	0.04	0.05	0.04
Molybdenum	-0.43	-0.45	-0.39	-0.45	-0.43
Potassium	0.00	0.00	0.00	0.00	0.00
Selenium	-0.05	-0.05	-0.04	-0.05	-0.05
Silica	0.66	0.70	0.61	0.70	0.66
Sodium	0.01	0.01	0.01	0.01	0.01
Sulfate	0.09	0.08	0.07	0.08	0.09

Impact (%) is calculated as the difference between the component mass load at Year 10 with Waterleaf operations and the corresponding mass load without Waterleaf operations, expressed as a percentage of the mass load without Waterleaf operations.

Table 12 - Impact of Waterleaf Operations on Component Load in the North Arm after 10 years (N, %) – Maximum mass loading Case

Scenario	1a (Low lake level), %	1b (Mid Lake level), %	1c (High Lake Level), %	1d (Mid lake level, lowered berm), %	1e (Mid lake level, lowered berm), %
Aluminum	-1.55	-0.40	-0.48	-0.40	-1.55
Arsenic	-1.47	-1.55	-1.36	-1.55	-1.47
Barium	-0.50	-0.53	-0.47	-0.53	-0.50
Boron	-0.12	-0.15	-0.13	-0.15	-0.12
Bromine	-0.23	-0.29	-0.26	-0.29	-0.23
Calcium	-0.04	-0.08	-0.06	-0.08	-0.04
Chloride	0.00	0.00	0.00	0.00	0.00
Iron	0.01	0.01	0.00	0.01	0.01
Lead	0.24	0.25	0.22	0.25	0.24
Lithium	-2.80	-4.03	-3.41	-4.03	-2.80
Magnesium	0.00	0.00	0.00	0.00	0.00
Manganese	0.06	0.06	0.05	0.06	0.06
Molybdenum	-0.54	-0.57	-0.50	-0.57	-0.54
Potassium	0.00	0.00	0.00	0.00	0.00
Selenium	-0.06	-0.06	-0.06	-0.06	-0.06
Silica	0.85	0.89	0.79	0.89	0.85
Sodium	0.02	0.02	0.02	0.02	0.02
Sulfate	0.11	0.10	0.09	0.10	0.11

Impact (%) is calculated as the difference between the component mass load at Year 10 with Waterleaf operations and the corresponding mass load without Waterleaf operations, expressed as a percentage of the mass load without Waterleaf operations.

Impact on South Arm

The South Arm is only affected by Waterleaf operations under bidirectional breach flow conditions, which would primarily occur if the berm were lowered or further eroded. Scenarios 1d and 1e were specifically modelled to represent this condition.

For these scenarios, the North → South saline mass transfer rate is calculated at each time step using the North Arm concentration time series, evaluated separately for the "with operations" and "without operations" cases. The difference between these two cases represents the net mass effect attributable to Waterleaf operations (positive or negative), which is accumulated over time in the South Arm.

The resulting operational mass difference expressed as an equivalent concentration change (mg/L) by dividing the cumulative mass difference by the corresponding South Arm lake volume. A positive concentration change indicates that Waterleaf operations increase South Arm concentration relative to the no-operations case (i.e., higher mass transfer to the South Arm), while a negative concentration change indicates a reduction in South Arm concentration attributable to the operations.

The incremental impact on South concentrations after 10 years is summarised below for the nominal case (Table 13) and maximum loading case (Table 14)

Table 13 - Impact of Waterleaf Operations (South Arm), Nominal Case

Component	Scenario	Initial concentration (S), mg/L	Impact on concentrations at 10 years (S), mg/L	Percentage of initial concentration, %
Boron	1d	21	-0.006	-0.03
Boron	1e	21	-0.012	-0.06
Bromine	1d	58	-0.034	-0.06
Bromine	1e	58	-0.066	-0.11
Chloride	1d	81547	0.219	0.00
Chloride	1e	81547	0.421	0.00
Lithium	1d	29	-0.187	-0.65
Lithium	1e	29	-0.360	-1.26
Magnesium	1d	5679	-0.045	0.00
Magnesium	1e	5679	-0.086	0.00
Potassium	1d	3390	0.002	0.00
Potassium	1e	3390	0.004	0.00

Table 14 - Impact of Waterleaf Operations (South Arm), Maximum mass loading Case

Component	Scenario	Initial concentration (S), mg/L	Impact on concentrations at 10 years (S), mg/L	Percentage of initial concentration, %
Boron	1d	21	-0.008	-0.04
Boron	1e	21	-0.016	-0.07
Bromine	1d	58	-0.044	-0.08
Bromine	1e	58	-0.084	-0.15
Chloride	1d	81547	0.280	0.00
Chloride	1e	81547	0.538	0.00
Lithium	1d	29	-0.239	-0.84
Lithium	1e	29	-0.459	-1.61
Magnesium	1d	5679	-0.057	0.00
Magnesium	1e	5679	-0.110	0.00
Potassium	1d	3390	0.003	0.00
Potassium	1e	3390	0.005	0.00

Summary

The following observations can be made from the 10-year mass-balance simulations:

1. The North Arm mass load is primarily affected by breach inflow (South → North). The South → North exchange across the breach is the dominant driver of long-term changes in mass load in the North Arm. As a result, berm management is a key control on whether North Arm mass loads continue to accumulate over time (net import) or stabilise (reduced import and/or increased return flow).

2. The North Arm concentrations are primarily driven by lake level (volume). While breach inflow controls the mass entering the North Arm, the lake level projection is the main effect on concentration because it dictates the available water volume for dilution or concentration. Lower projected lake levels result in higher concentrations for a given mass load.

3. Waterleaf's impact on lithium in the North Arm mass load and concentrations is in the order of a 2-4% reduction across all scenarios after 10 years of operations.

4. For all components other than Lithium, the impact on load over 10 years is between -1.2% (Arsenic) and +0.70% (Silica) in the nominal case and -1.5%, +0.85% in the max loading case.

5. Besides Lithium, Arsenic shows the largest relative response, with a modelled North Arm load reduced by ~-1.2 % (Nominal) / - 1.5% (Maximum loading) after 10 years of Operations.

6. South Arm impacts occur only under bidirectional breach flow conditions, if the berm were to be lowered from its current level. Under the current raised-berm configuration (primarily unidirectional South → North), Waterleaf does not influence the South Arm concentrations. If bidirectional exchange resumes (e.g., through berm lowering or overtopping), Waterleaf-driven changes in North Arm concentration can propagate back to the South Arm via North → South flow. The maximum impact in this scenario is a 1.3% (nominal) / 1.6% (maximum) reduction of Lithium in the South Arm, after 10 years. For other components, the change does not exceed -0.1%/0.15% after 10 years.

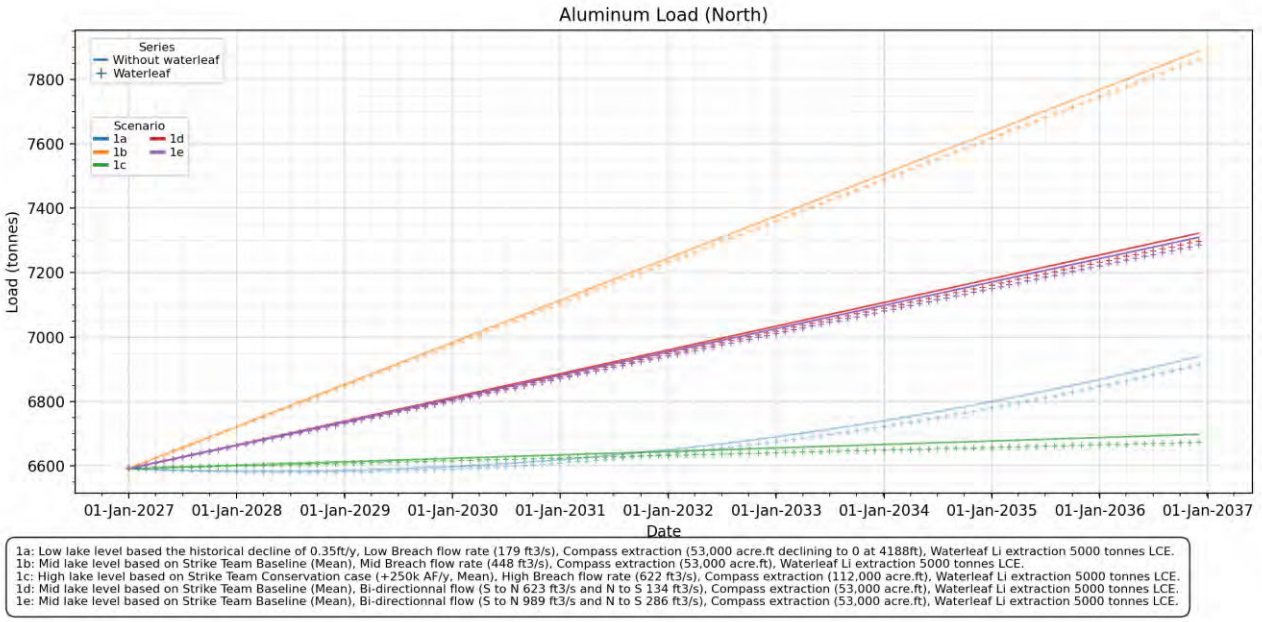


Figure 6: Summary: Aluminum load (Nominal Case)

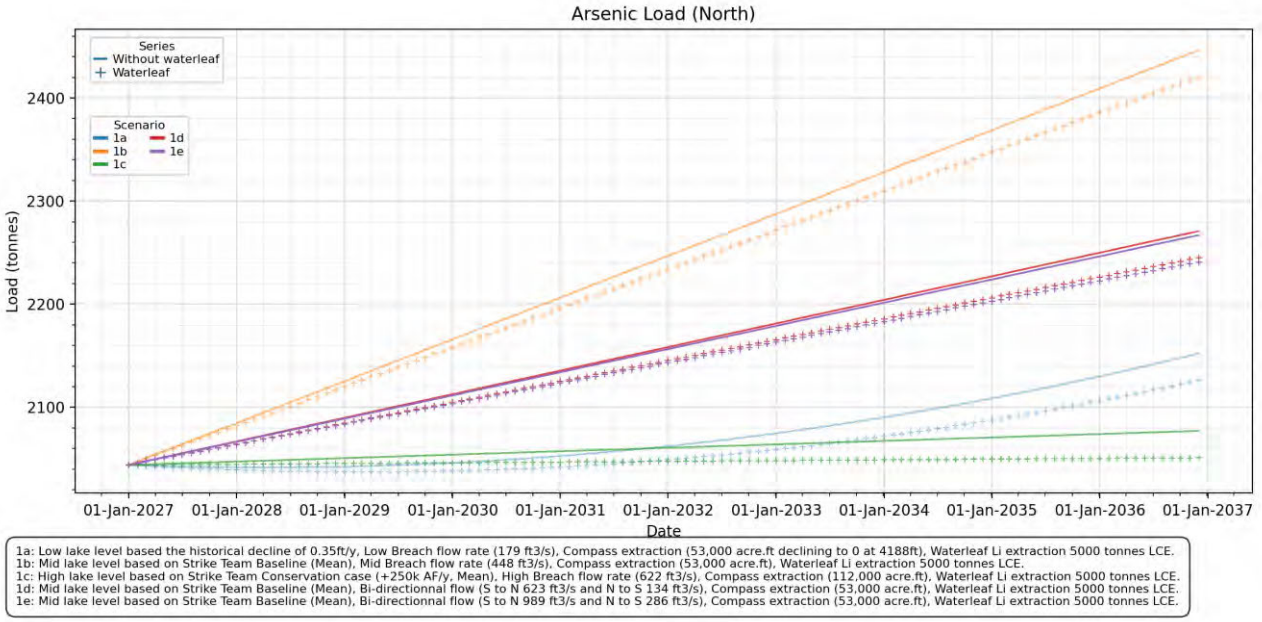


Figure 7: Summary: Arsenic load (Nominal Case)

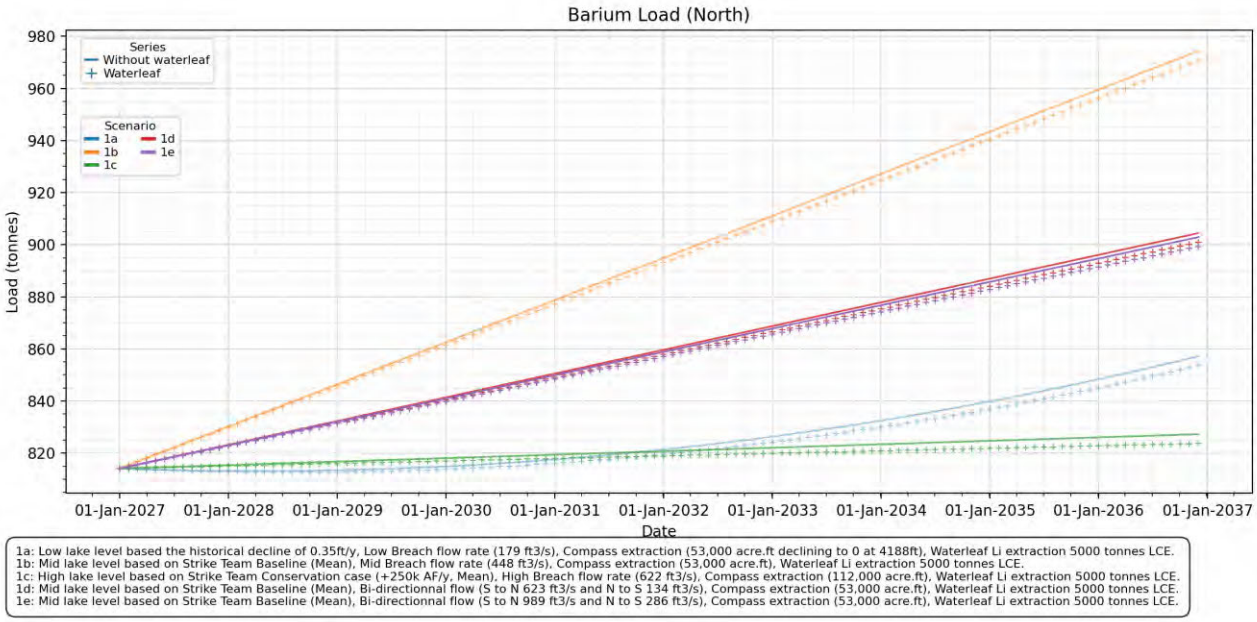


Figure 8: Summary: Barium load (Nominal Case)

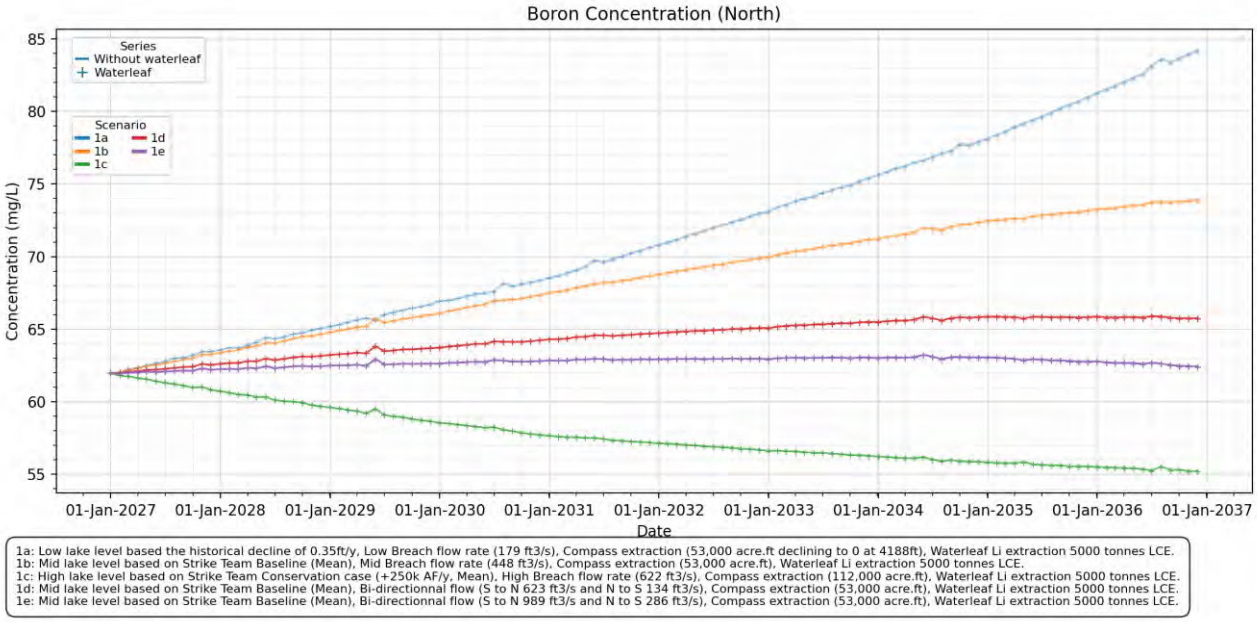


Figure 9: Summary: Boron concentration (Nominal Case)

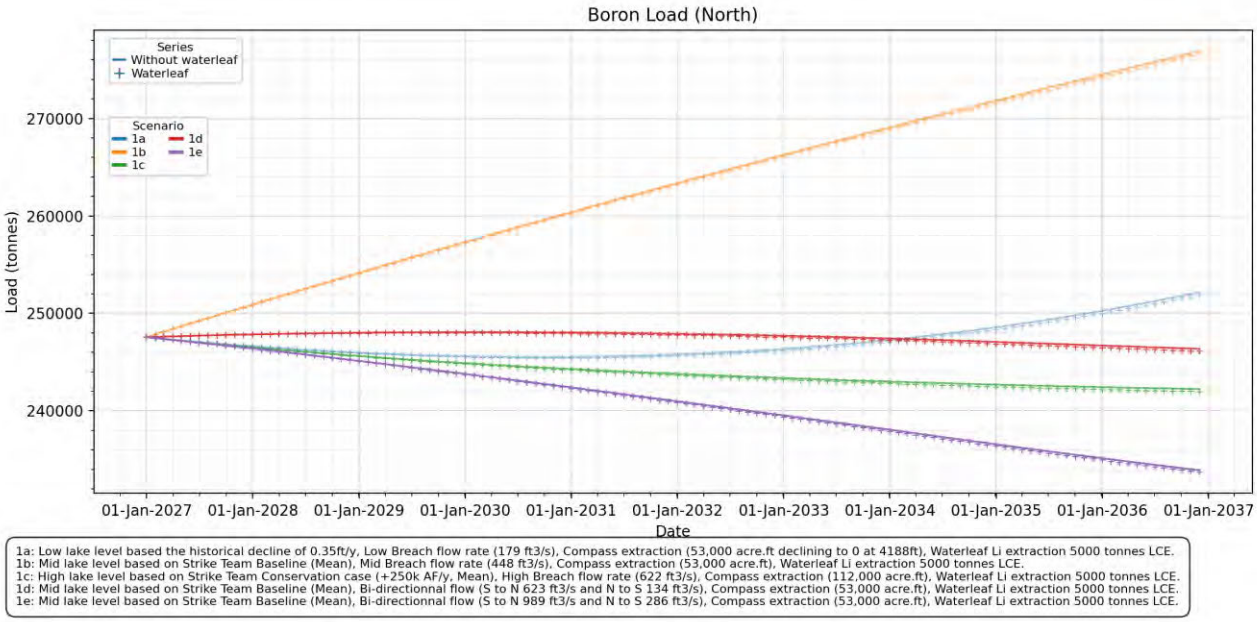


Figure 10: Summary: Boron load (Nominal Case)

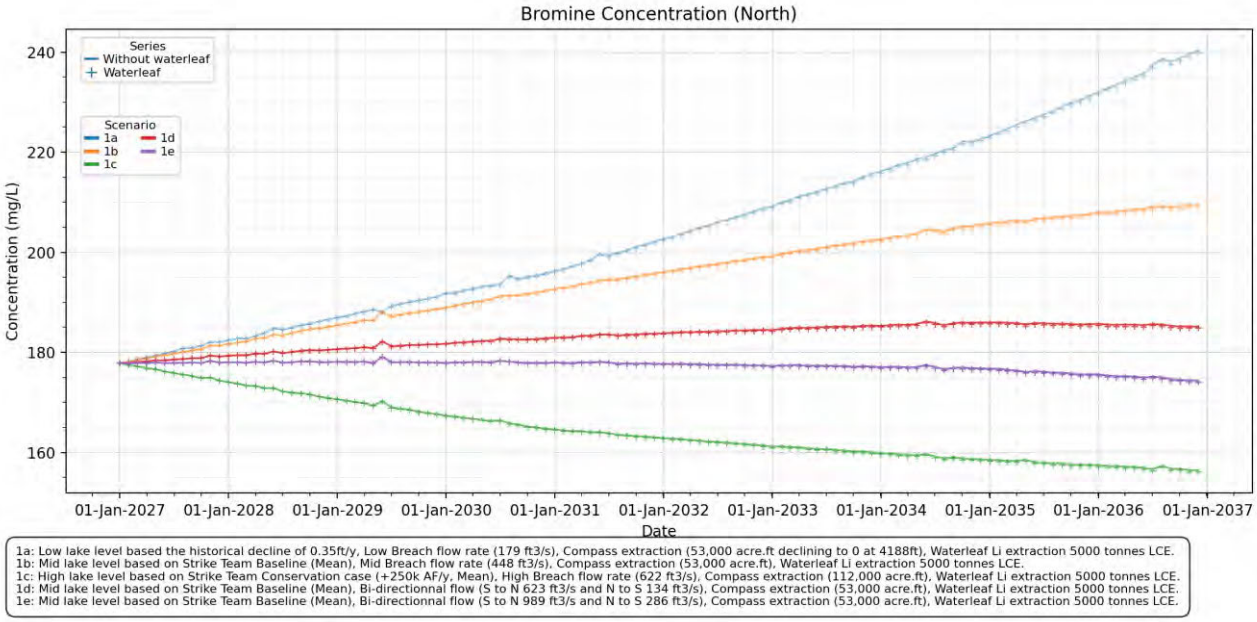


Figure 11: Summary: Bromine concentration (Nominal Case)

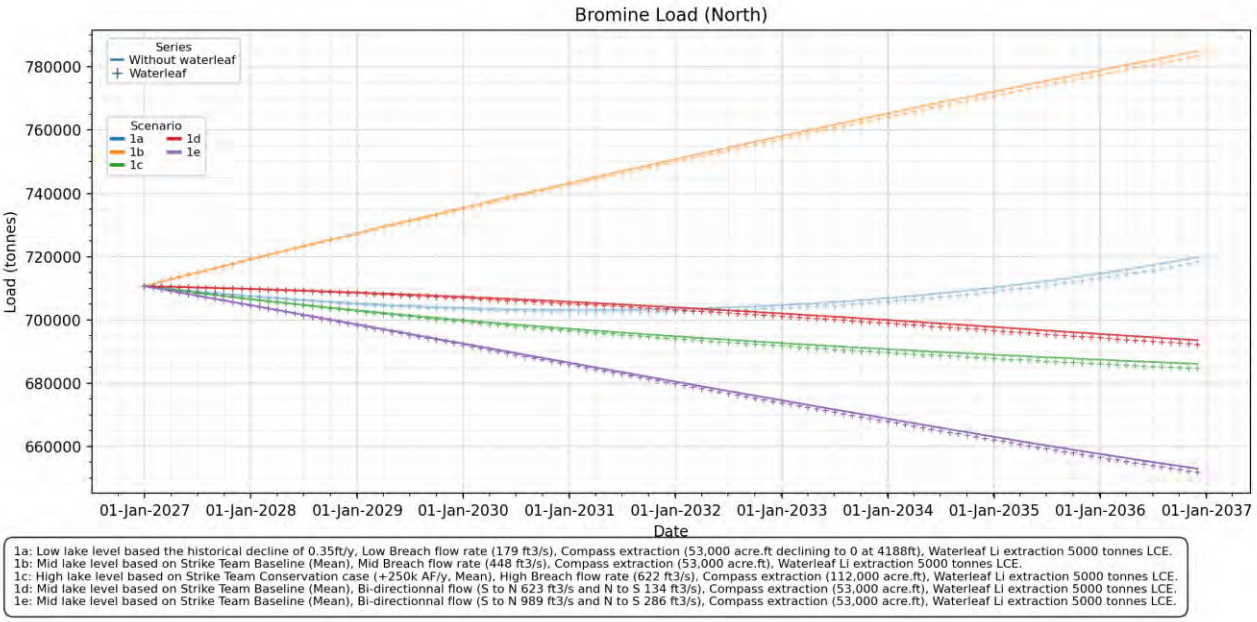


Figure 12: Summary: Bromine load (Nominal Case)

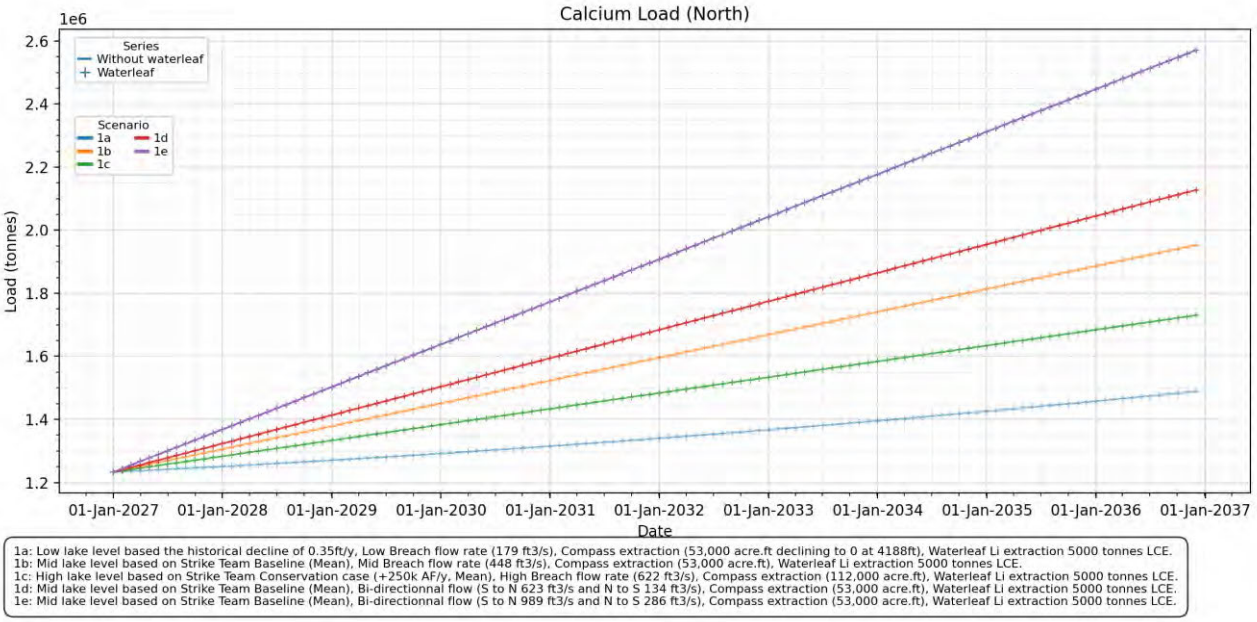


Figure 13: Summary: Calcium load (Nominal Case)

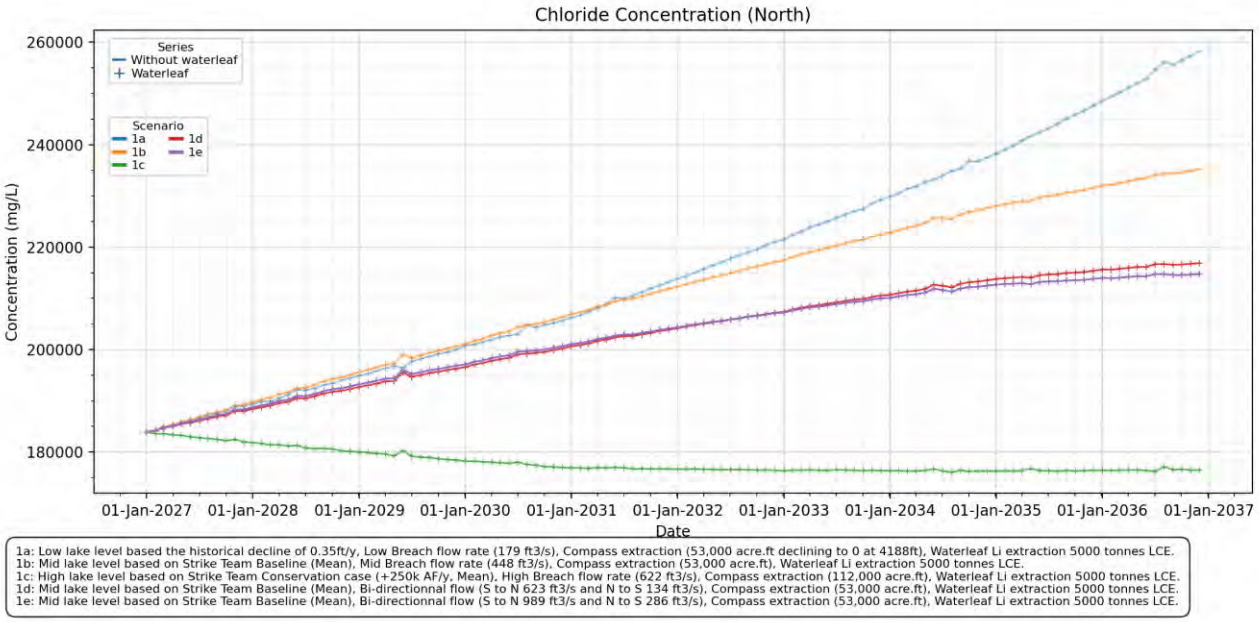


Figure 14: Summary: Chloride concentration (Nominal Case)

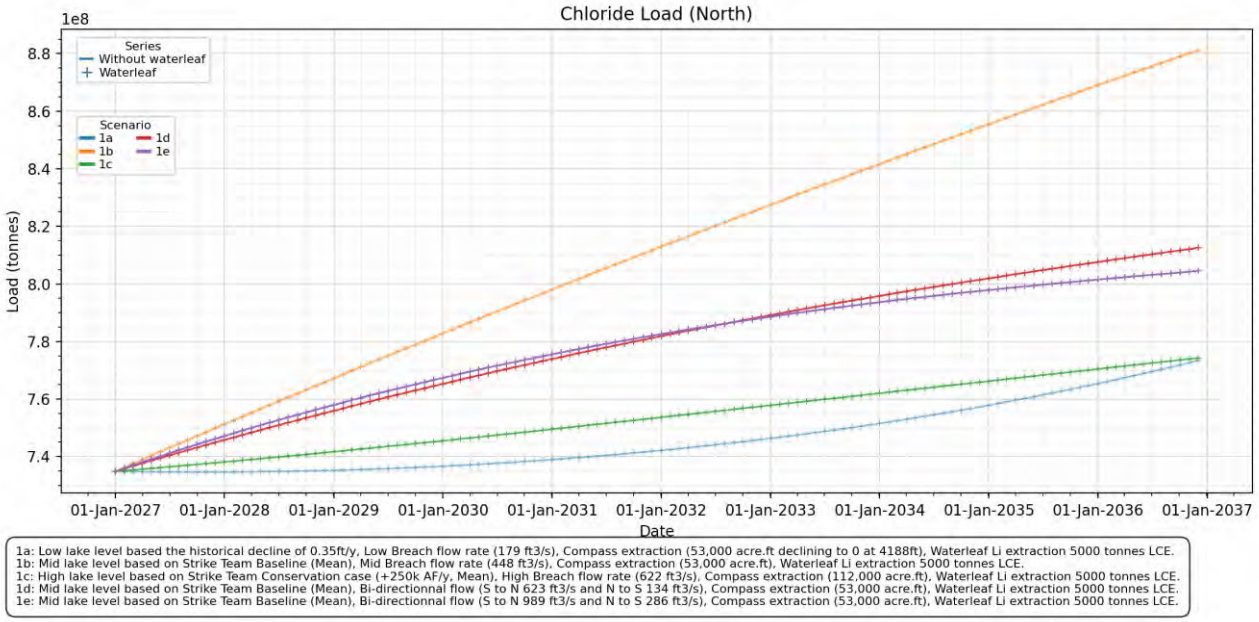


Figure 15: Summary: Chloride load (Nominal Case)

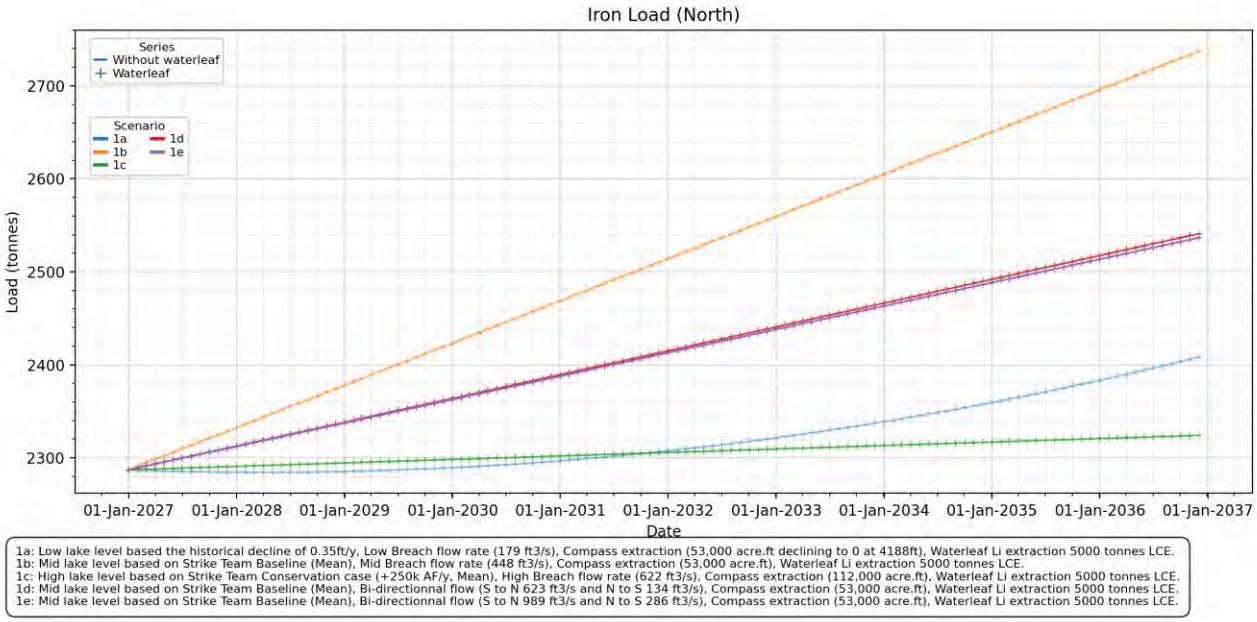


Figure 16: Summary: Iron load (Nominal Case)

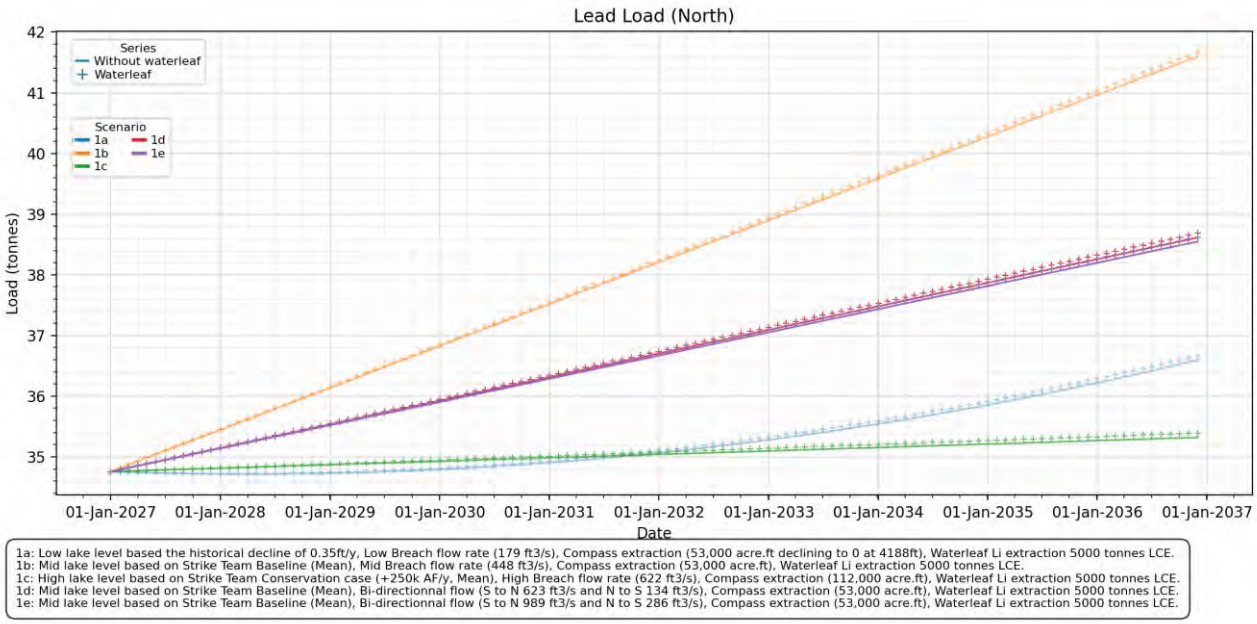


Figure 17: Summary: Lead load (Nominal Case)

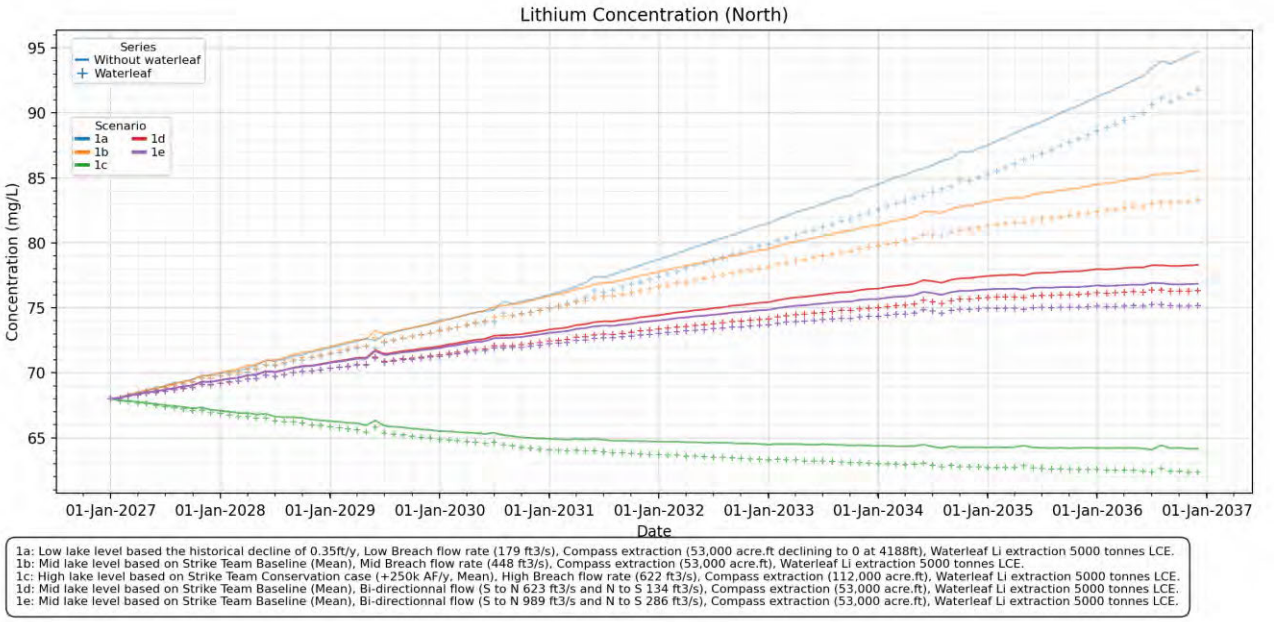


Figure 18: Summary: Lithium concentration (Nominal Case)

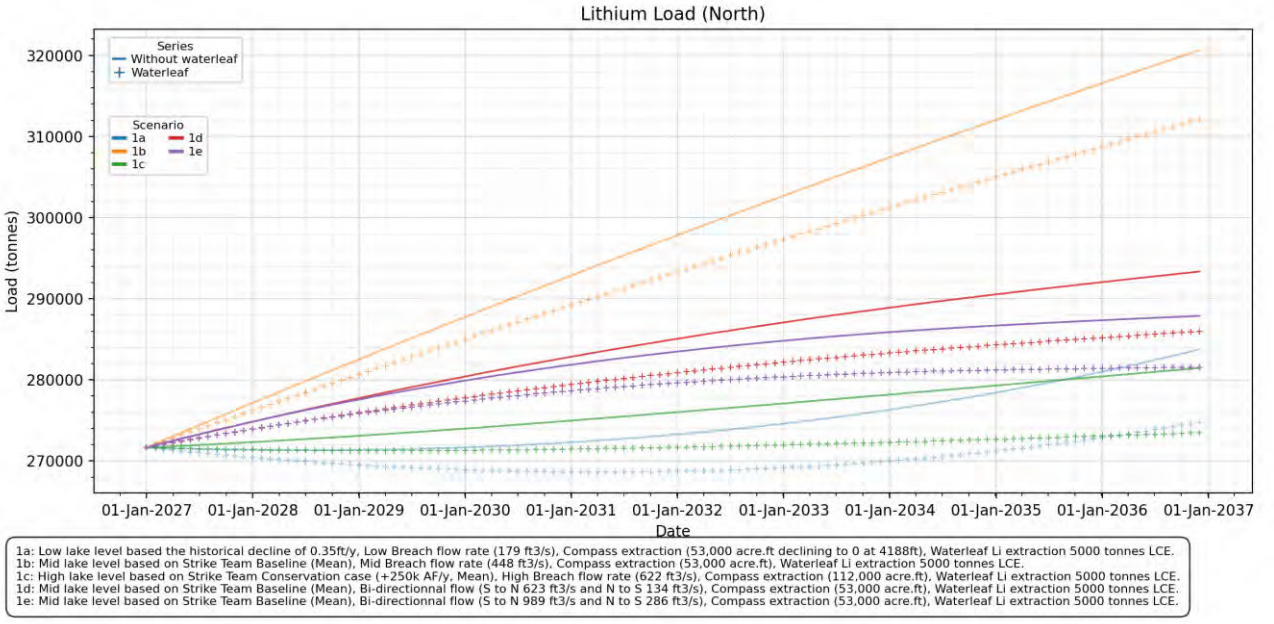


Figure 19: Summary: Lithium load (Nominal Case)

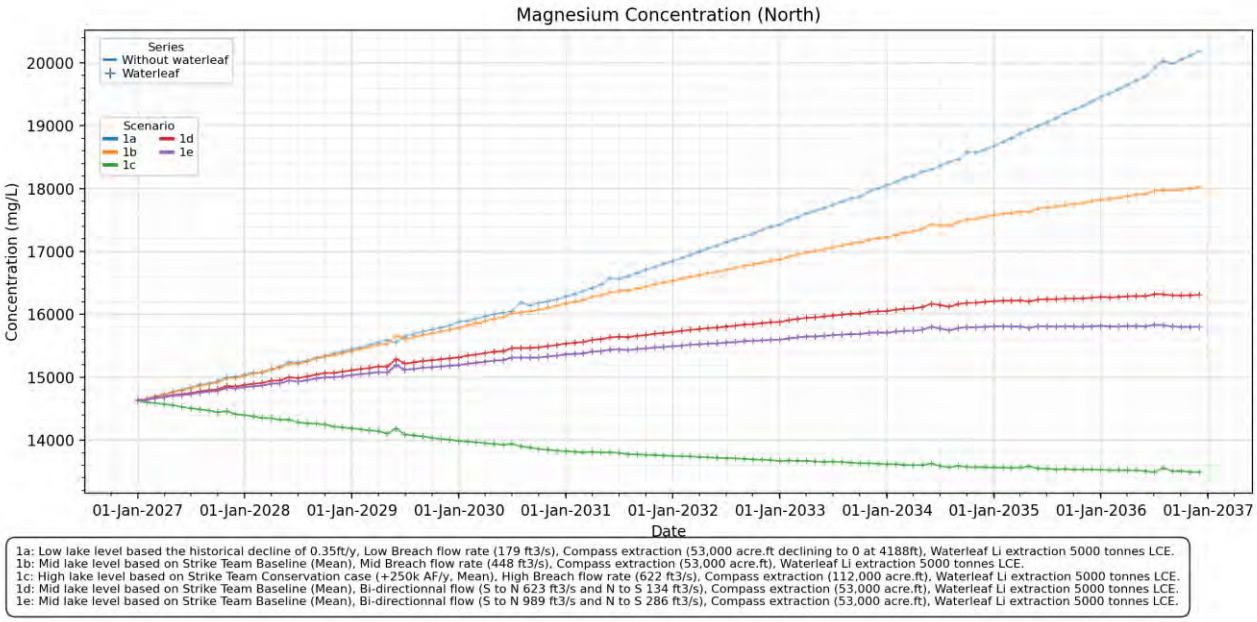


Figure 20: Summary: Magnesium concentration (Nominal Case)

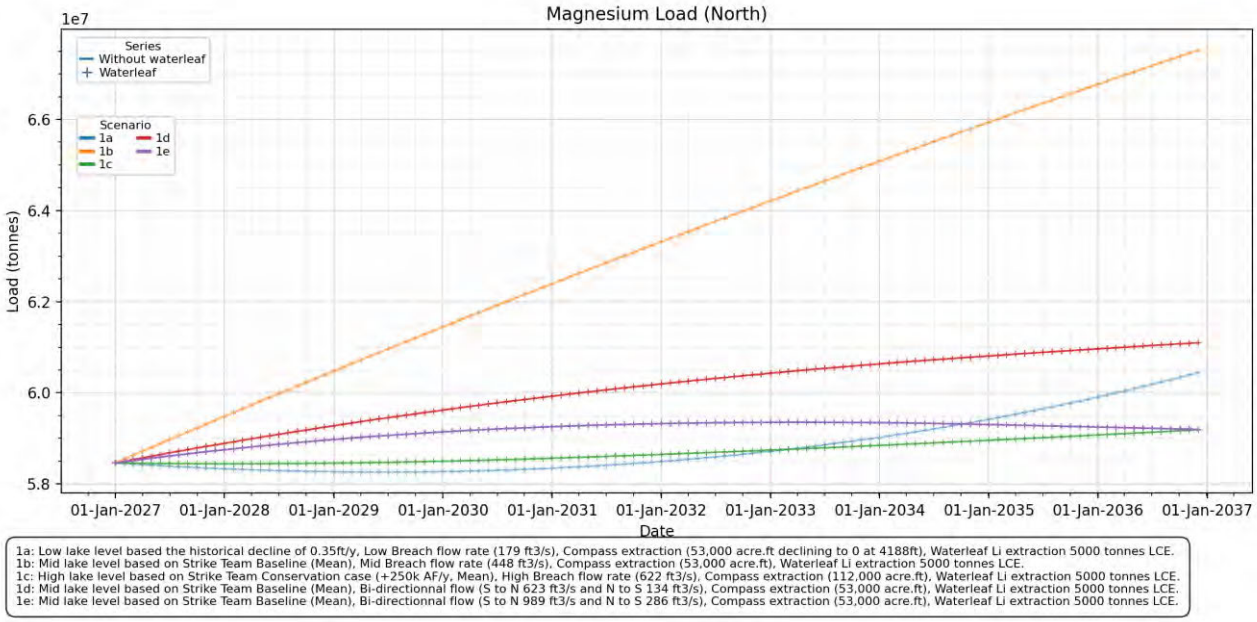


Figure 21: Summary: Magnesium load (Nominal Case)

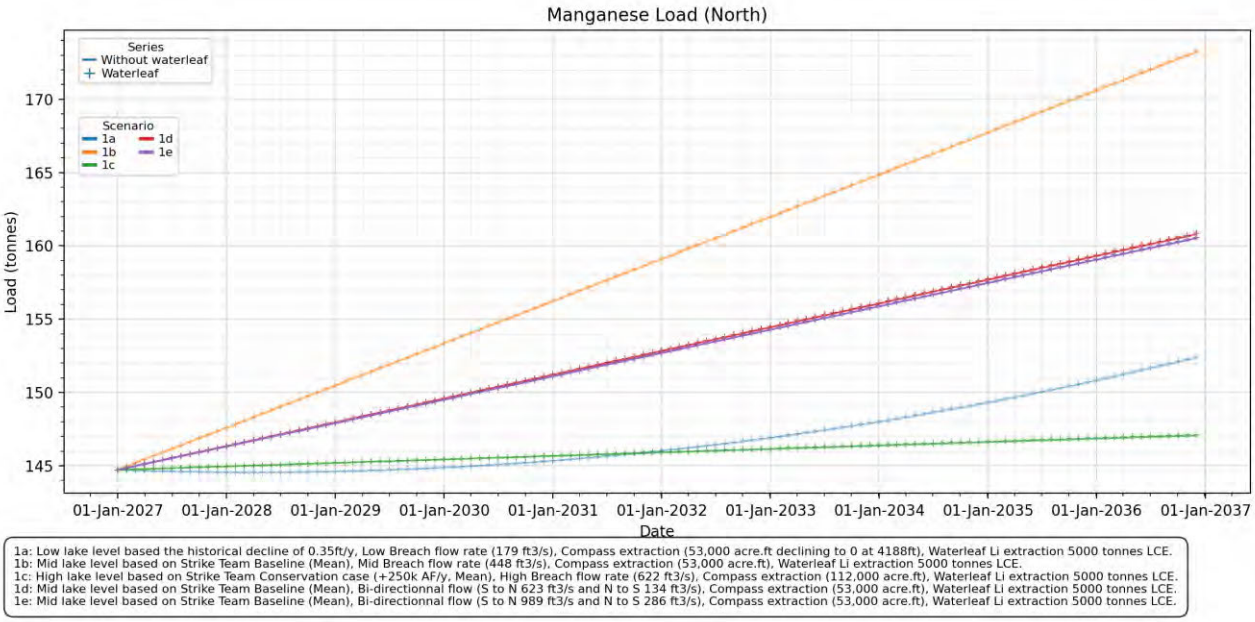


Figure 22: Summary: Manganese load (Nominal Case)

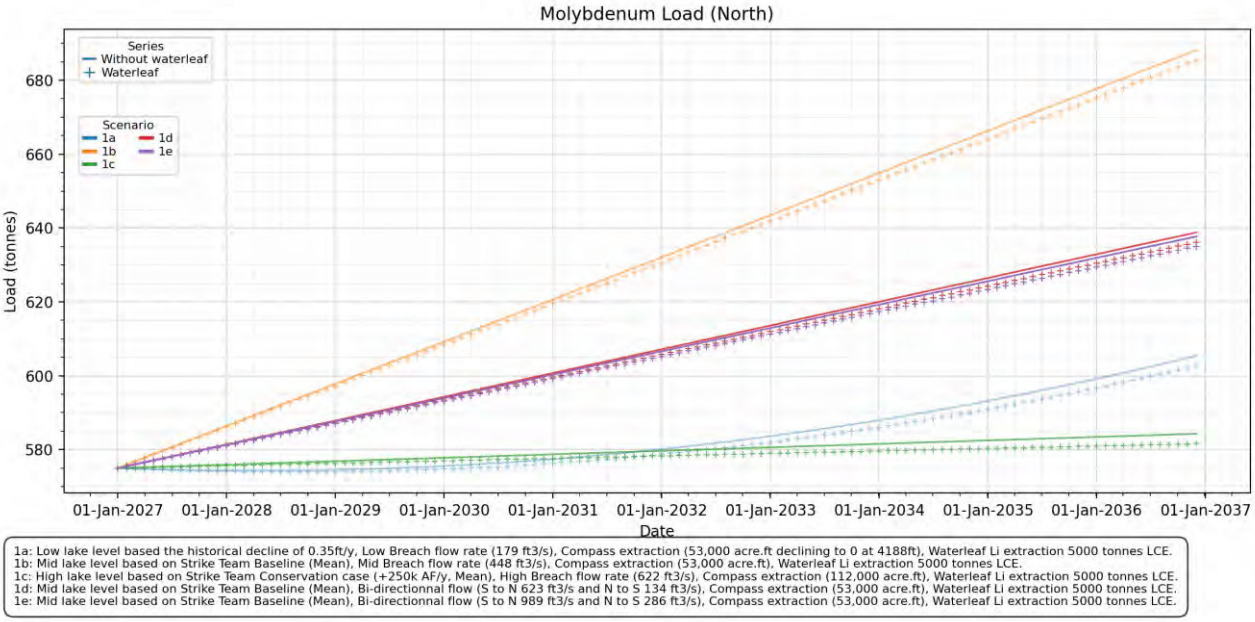


Figure 23: Summary: Molybdenum load (Nominal Case)

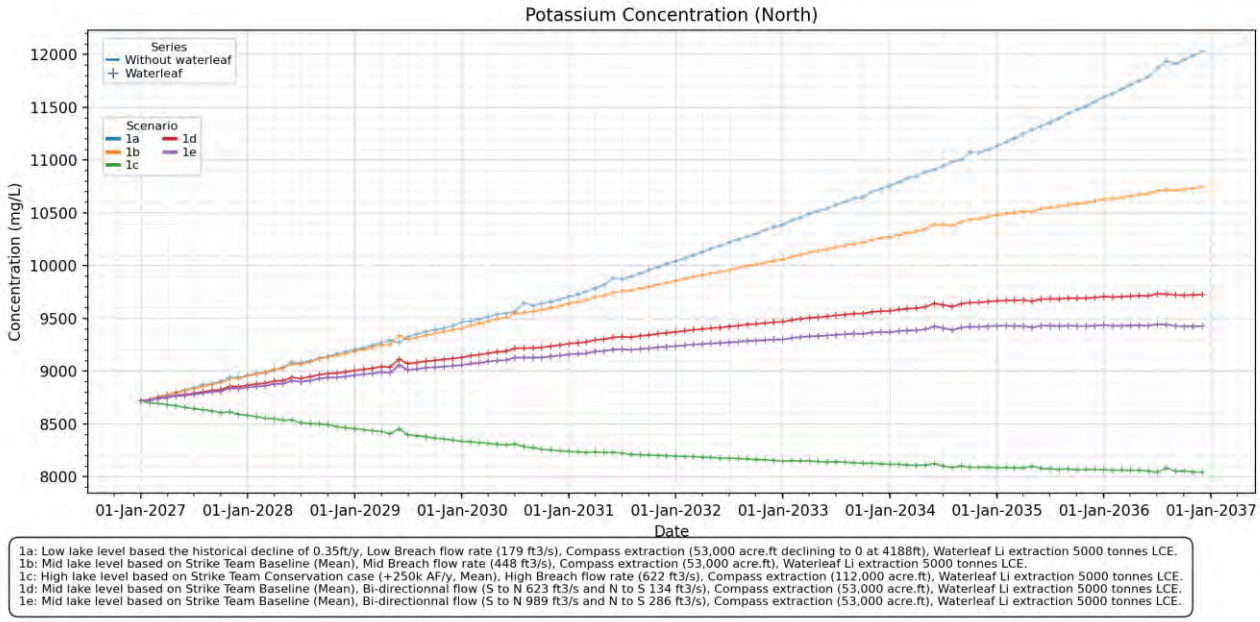


Figure 24: Summary: Potassium concentration (Nominal Case)

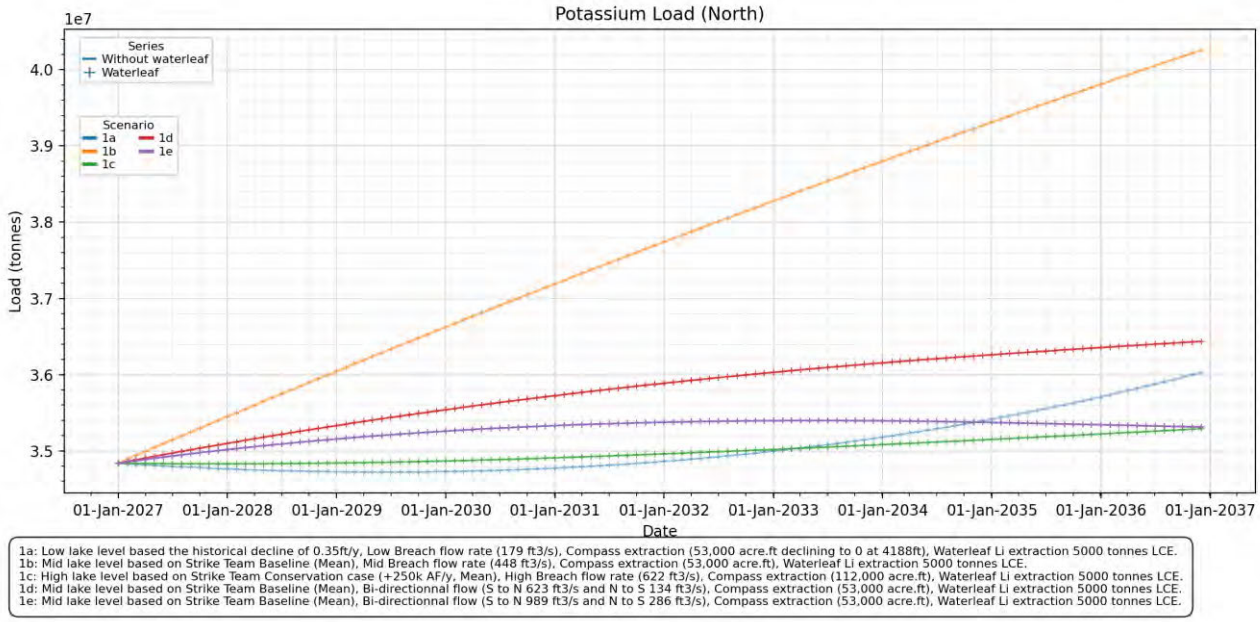


Figure 25: Summary: Potassium load (Nominal Case)

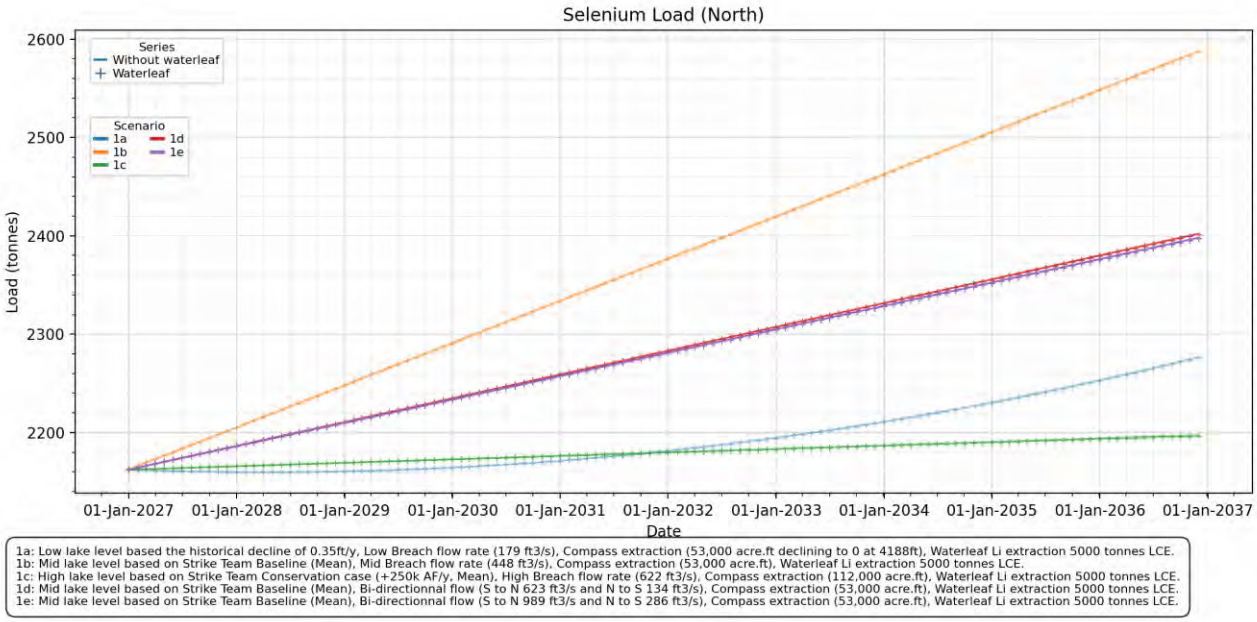


Figure 26: Summary: Selenium load (Nominal Case)

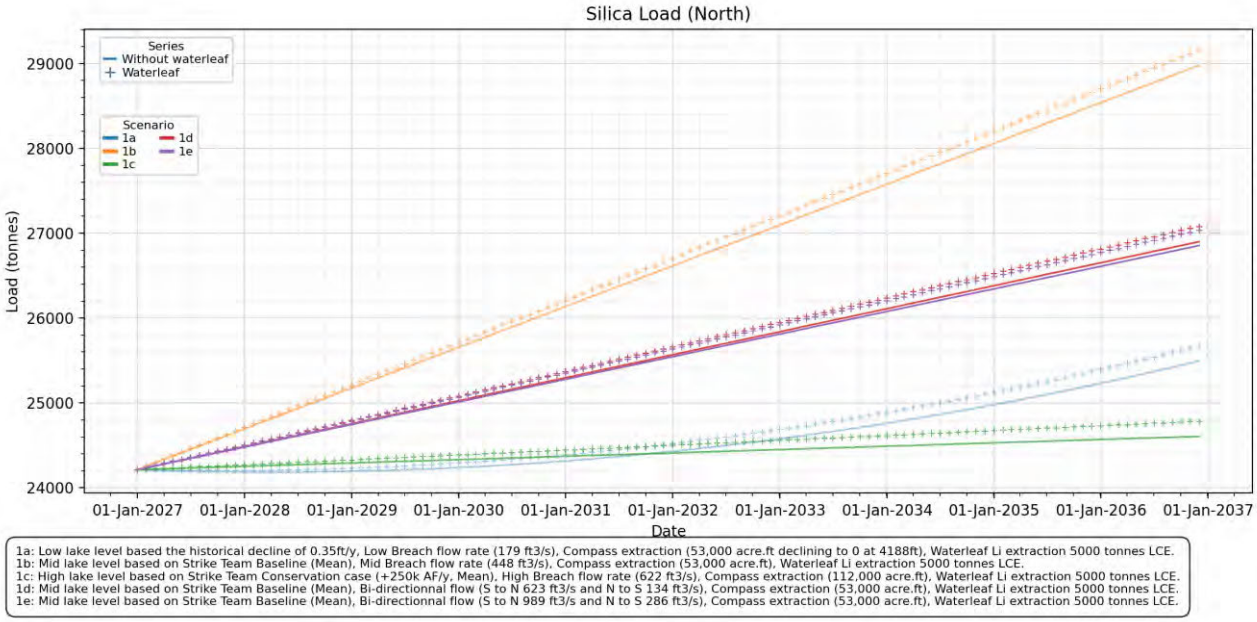


Figure 27: Summary: Silica load (Nominal Case)

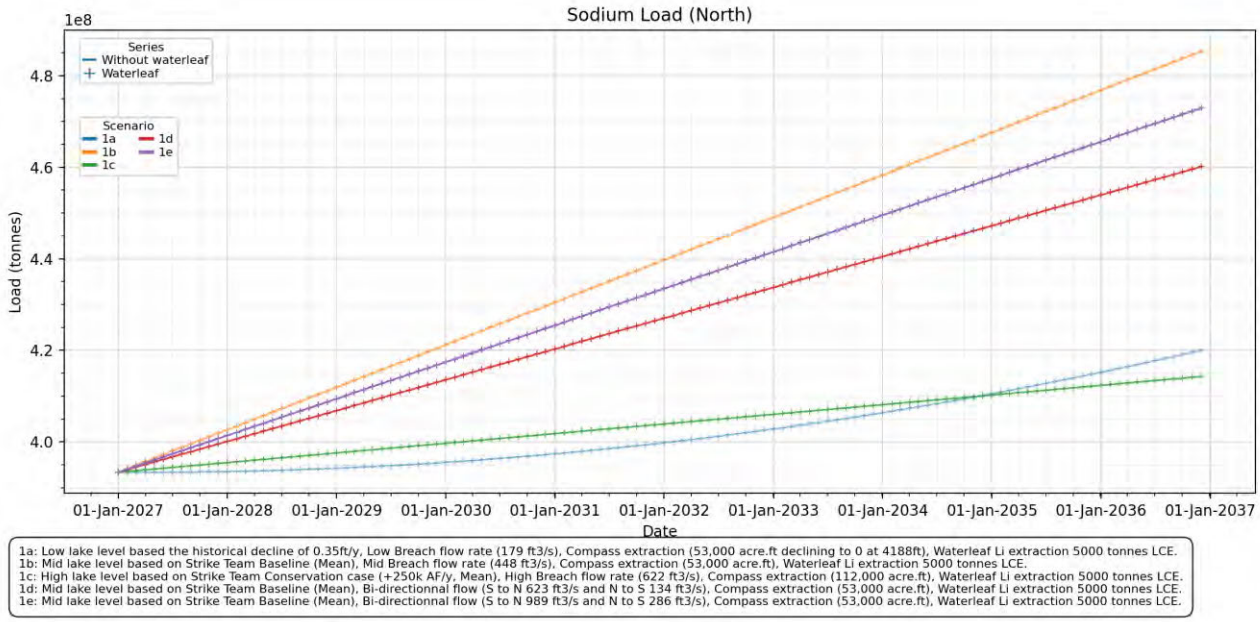


Figure 28: Summary: Sodium load (Nominal Case)

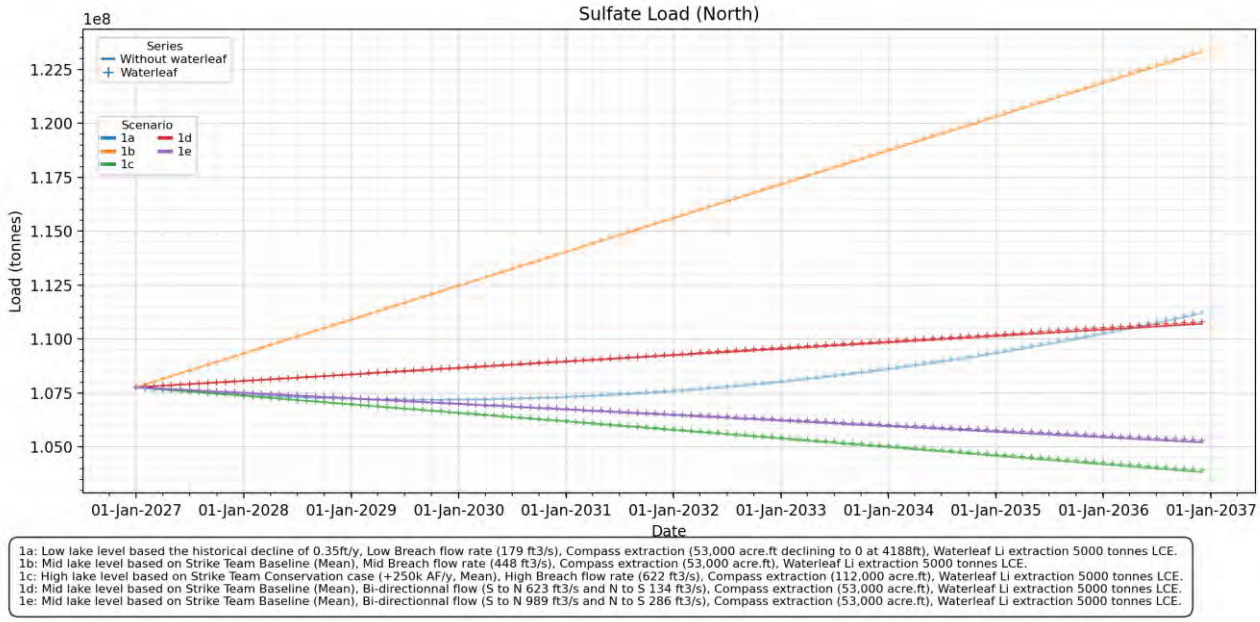


Figure 29: Summary: Sulfate load (Nominal Case)

Supplementary figures are provided for the nominal case showing the individual and combined effects of causeway breach exchange, third-party mineral extraction, and Waterleaf extraction on lithium mass balance and concentration over time.

List of Figures

Figure 1 – Projected Lake Levels....4
Figure 2- Breach instantaneous flow rates....5
Figure 3 - Waterleaf Impact on Load (%), Nominal Case - North Arm....16
Figure 4 - Waterleaf Impact on Concentrations (%), Nominal Case - North Arm....16
Figure 5 - Waterleaf Impact on Concentrations excluding Lithium (%), Nominal Case - North Arm....17
Figure 6: Summary: Aluminum load (Nominal Case)....21
Figure 7: Summary: Arsenic load (Nominal Case)....21
Figure 8: Summary: Barium load (Nominal Case)....22
Figure 9: Summary: Boron concentration (Nominal Case)....22
Figure 10: Summary: Boron load (Nominal Case)....23
Figure 11: Summary: Bromine concentration (Nominal Case)....23
Figure 12: Summary: Bromine load (Nominal Case)....24
Figure 13: Summary: Calcium load (Nominal Case)....24
Figure 14: Summary: Chloride concentration (Nominal Case)....25
Figure 15: Summary: Chloride load (Nominal Case)....25
Figure 16: Summary: Iron load (Nominal Case)....26
Figure 17: Summary: Lead load (Nominal Case)....26
Figure 18: Summary: Lithium concentration (Nominal Case)....27
Figure 19: Summary: Lithium load (Nominal Case)....27
Figure 20: Summary: Magnesium concentration (Nominal Case)....28
Figure 21: Summary: Magnesium load (Nominal Case)....28
Figure 22: Summary: Manganese load (Nominal Case)....29
Figure 23: Summary: Molybdenum load (Nominal Case)....29
Figure 24: Summary: Potassium concentration (Nominal Case)....30
Figure 25: Summary: Potassium load (Nominal Case)....30
Figure 26: Summary: Selenium load (Nominal Case)....31
Figure 27: Summary: Silica load (Nominal Case)....31
Figure 28: Summary: Sodium load (Nominal Case)....32
Figure 29: Summary: Sulfate load (Nominal Case)....32
Figure 30: monthly mass balance aluminum 1a....36
Figure 31: monthly mass balance aluminum 1b....37
Figure 32: monthly mass balance aluminum 1c....38
Figure 33: monthly mass balance aluminum 1d....39
Figure 34: monthly mass balance aluminum 1e....40
Figure 35: monthly mass balance arsenic 1a....41
Figure 36: monthly mass balance arsenic 1b....42

Figure 37: monthly mass balance arsenic 1c 43
Figure 38: monthly mass balance arsenic 1d 44
Figure 39: monthly mass balance arsenic 1e 45
Figure 40: monthly mass balance barium 1a 46
Figure 41: monthly mass balance barium 1b 47
Figure 42: monthly mass balance barium 1c 48
Figure 43: monthly mass balance barium 1d 49
Figure 44: monthly mass balance barium 1e 50
Figure 45: monthly mass balance boron 1a 51
Figure 46: monthly mass balance boron 1b 52
Figure 47: monthly mass balance boron 1c 53
Figure 48: monthly mass balance boron 1d 54
Figure 49: monthly mass balance boron 1e 55
Figure 50: monthly mass balance bromine 1a 56
Figure 51: monthly mass balance bromine 1b 57
Figure 52: monthly mass balance bromine 1c 58
Figure 53: monthly mass balance bromine 1d 59
Figure 54: monthly mass balance bromine 1e 60
Figure 55: monthly mass balance calcium 1a 61
Figure 56: monthly mass balance calcium 1b 62
Figure 57: monthly mass balance calcium 1c 63
Figure 58: monthly mass balance calcium 1d 64
Figure 59: monthly mass balance calcium 1e 65
Figure 60: monthly mass balance chloride 1a 66
Figure 61: monthly mass balance chloride 1b 67
Figure 62: monthly mass balance chloride 1c 68
Figure 63: monthly mass balance chloride 1d 69
Figure 64: monthly mass balance chloride 1e 70
Figure 65: monthly mass balance iron 1a 71
Figure 66: monthly mass balance iron 1b 72
Figure 67: monthly mass balance iron 1c 73
Figure 68: monthly mass balance iron 1d 74
Figure 69: monthly mass balance iron 1e 75
Figure 70: monthly mass balance lead 1a 76
Figure 71: monthly mass balance lead 1b 77
Figure 72: monthly mass balance lead 1c 78
Figure 73: monthly mass balance lead 1d 79
Figure 74: monthly mass balance lead 1e 80
Figure 75: monthly mass balance lithium 1a 81
Figure 76: monthly mass balance lithium 1b 82
Figure 77: monthly mass balance lithium 1c 83
Figure 78: monthly mass balance lithium 1d 84
Figure 79: monthly mass balance lithium 1e 85

Figure 80: monthly mass balance magnesium 1a 86
Figure 81: monthly mass balance magnesium 1b 87
Figure 82: monthly mass balance magnesium 1c 88
Figure 83: monthly mass balance magnesium 1d 89
Figure 84: monthly mass balance magnesium 1e 90
Figure 85: monthly mass balance manganese 1a 91
Figure 86: monthly mass balance manganese 1b 92
Figure 87: monthly mass balance manganese 1c 93
Figure 88: monthly mass balance manganese 1d 94
Figure 89: monthly mass balance manganese 1e 95
Figure 90: monthly mass balance molybdenum 1a 96
Figure 91: monthly mass balance molybdenum 1b 97
Figure 92: monthly mass balance molybdenum 1c 98
Figure 93: monthly mass balance molybdenum 1d 99
Figure 94: monthly mass balance molybdenum 1e 100
Figure 95: monthly mass balance potassium 1a 101
Figure 96: monthly mass balance potassium 1b 102
Figure 97: monthly mass balance potassium 1c 103
Figure 98: monthly mass balance potassium 1d 104
Figure 99: monthly mass balance potassium 1e 105
Figure 100: monthly mass balance selenium 1a 106
Figure 101: monthly mass balance selenium 1b 107
Figure 102: monthly mass balance selenium 1c 108
Figure 103: monthly mass balance selenium 1d 109
Figure 104: monthly mass balance selenium 1e 110
Figure 105: monthly mass balance silica 1a 111
Figure 106: monthly mass balance silica 1b 112
Figure 107: monthly mass balance silica 1c 113
Figure 108: monthly mass balance silica 1d 114
Figure 109: monthly mass balance silica 1e 115
Figure 110: monthly mass balance sodium 1a 116
Figure 111: monthly mass balance sodium 1b 117
Figure 112: monthly mass balance sodium 1c 118
Figure 113: monthly mass balance sodium 1d 119
Figure 114: monthly mass balance sodium 1e 120
Figure 115: monthly mass balance sulfate 1a 121
Figure 116: monthly mass balance sulfate 1b 122
Figure 117: monthly mass balance sulfate 1c 123
Figure 118: monthly mass balance sulfate 1d 124
Figure 119: monthly mass balance sulfate 1e 125

Plots (Nominal Case)

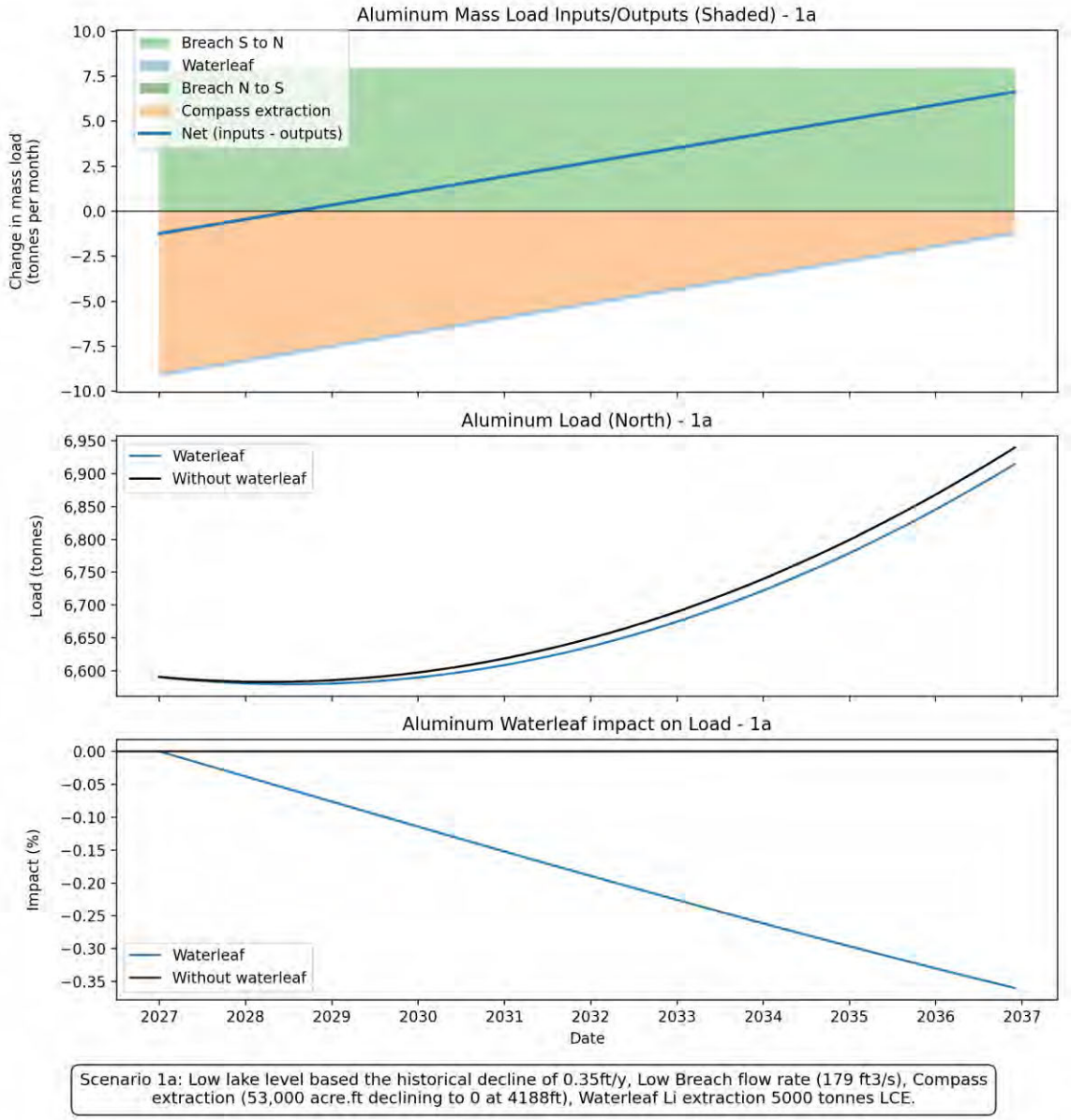


Figure 30: monthly mass balance aluminum 1a

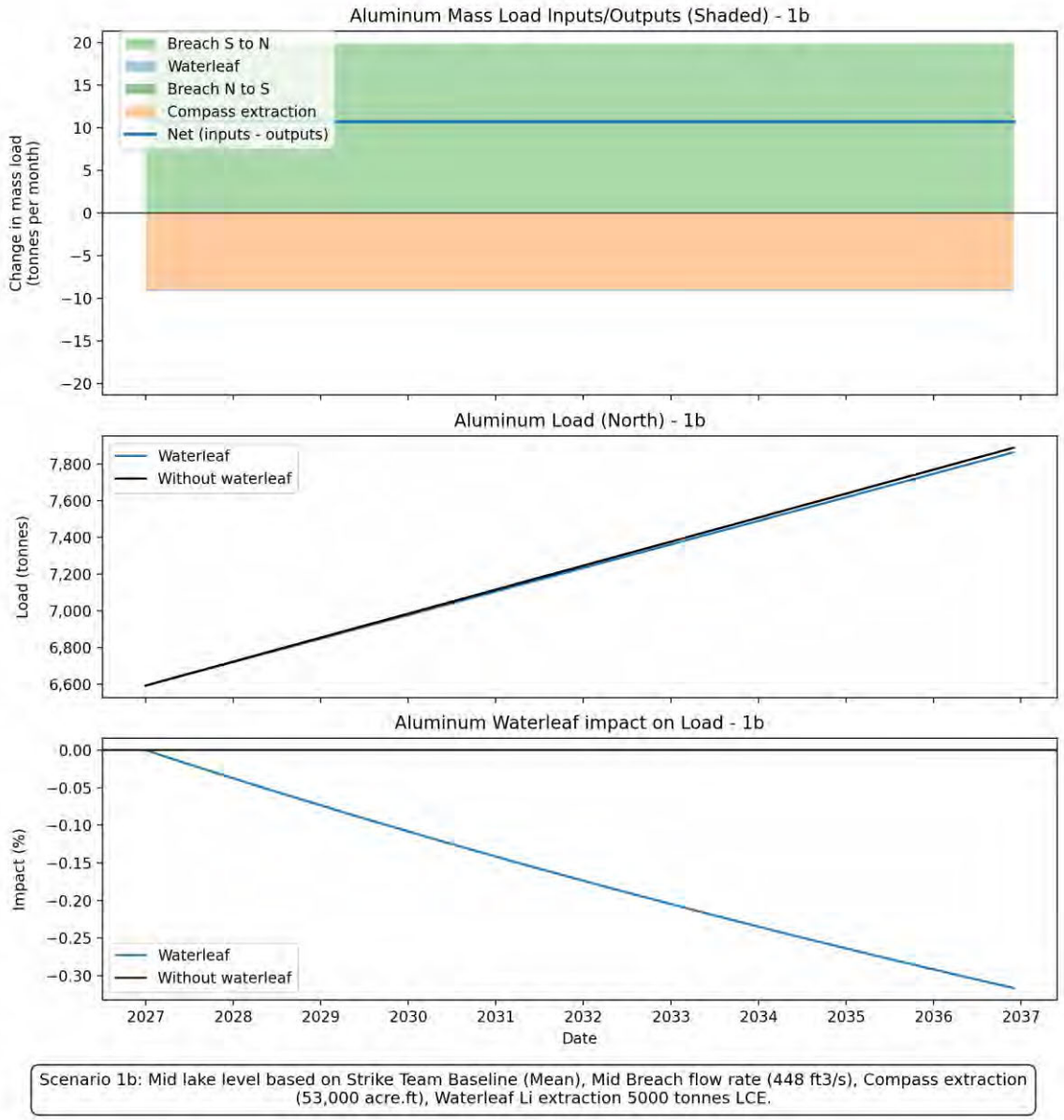


Figure 31: monthly mass balance aluminum 1b

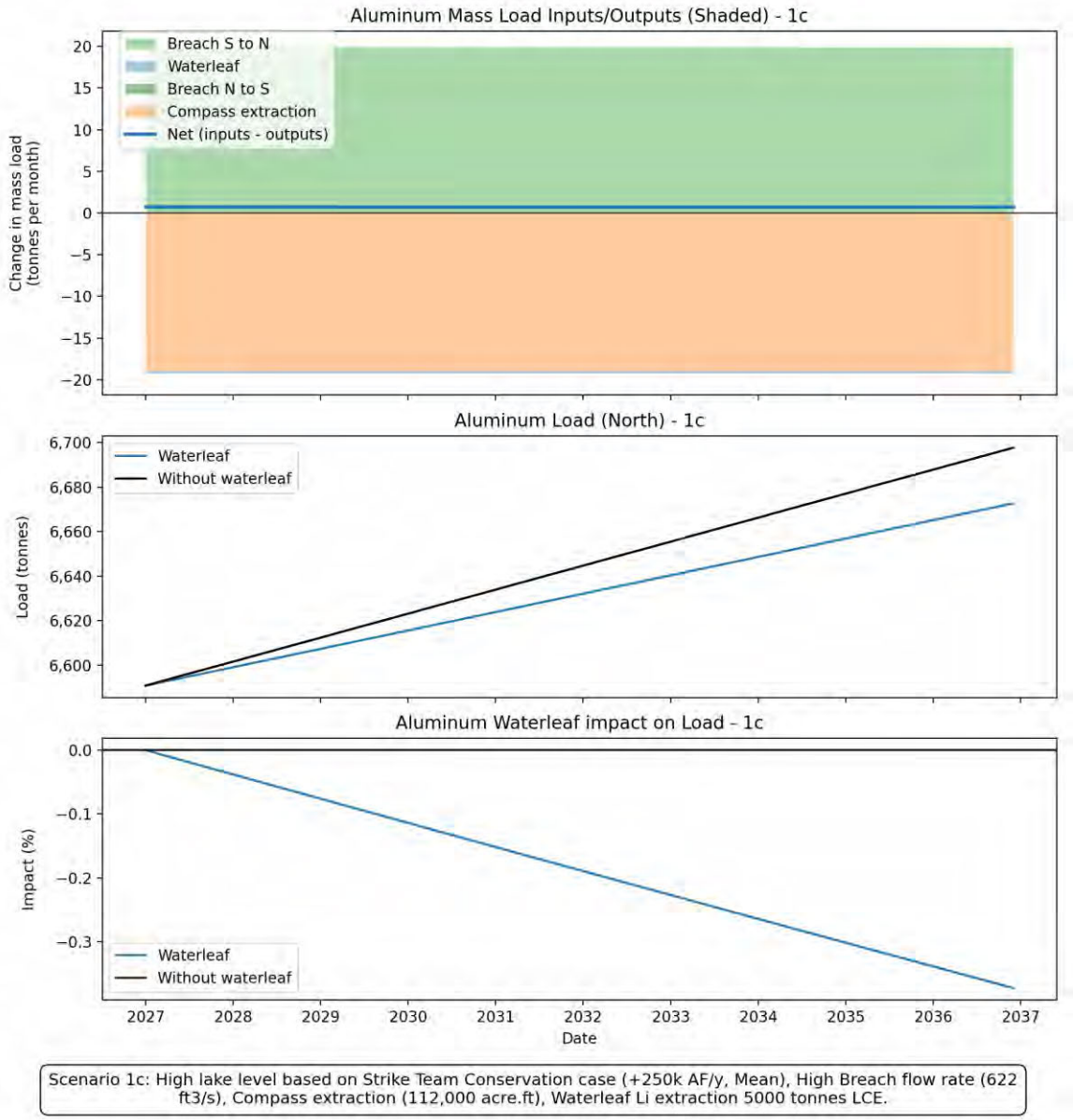


Figure 32: monthly mass balance aluminum 1c

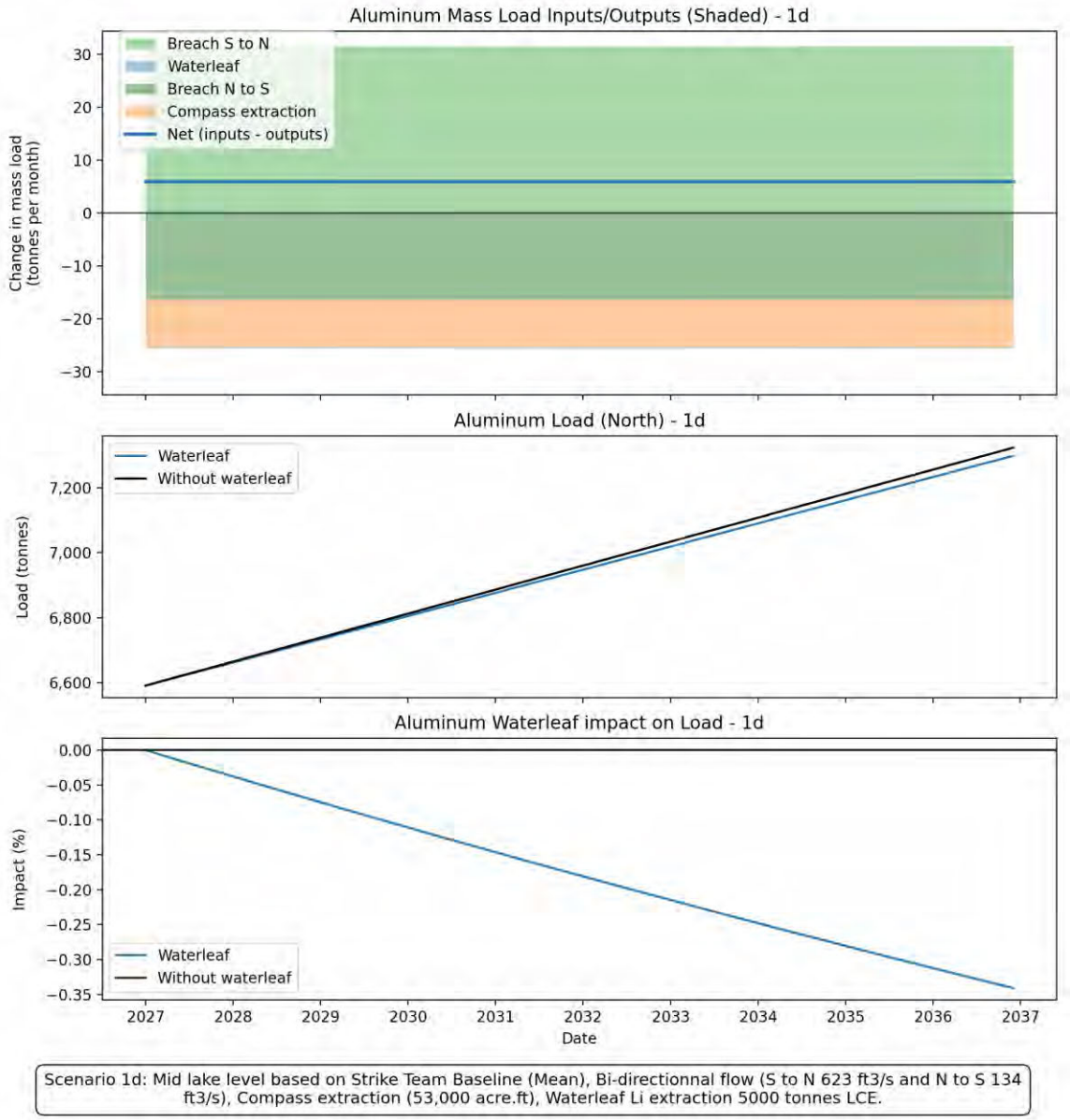


Figure 33: monthly mass balance aluminum 1d

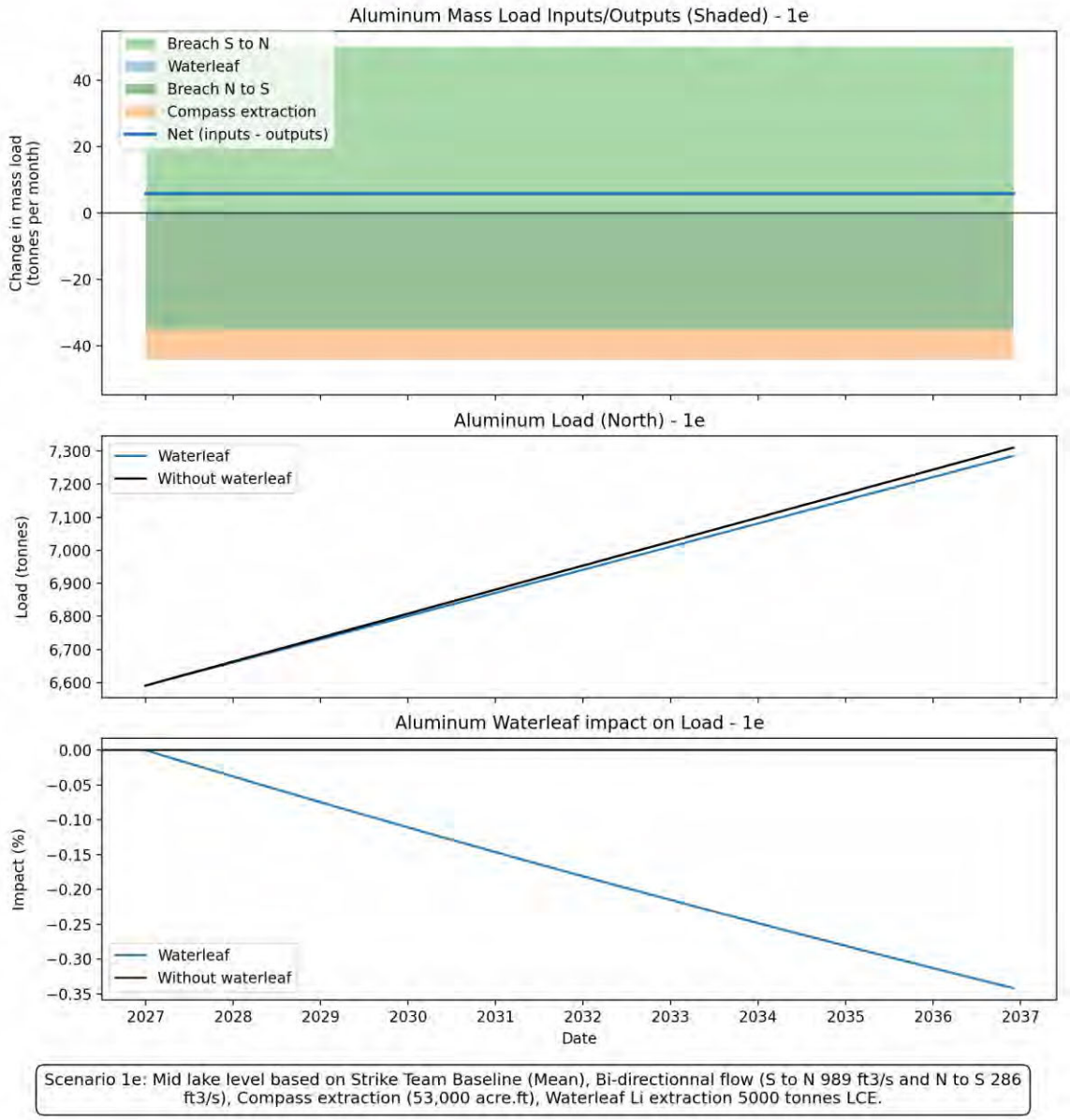


Figure 34: monthly mass balance aluminum 1e

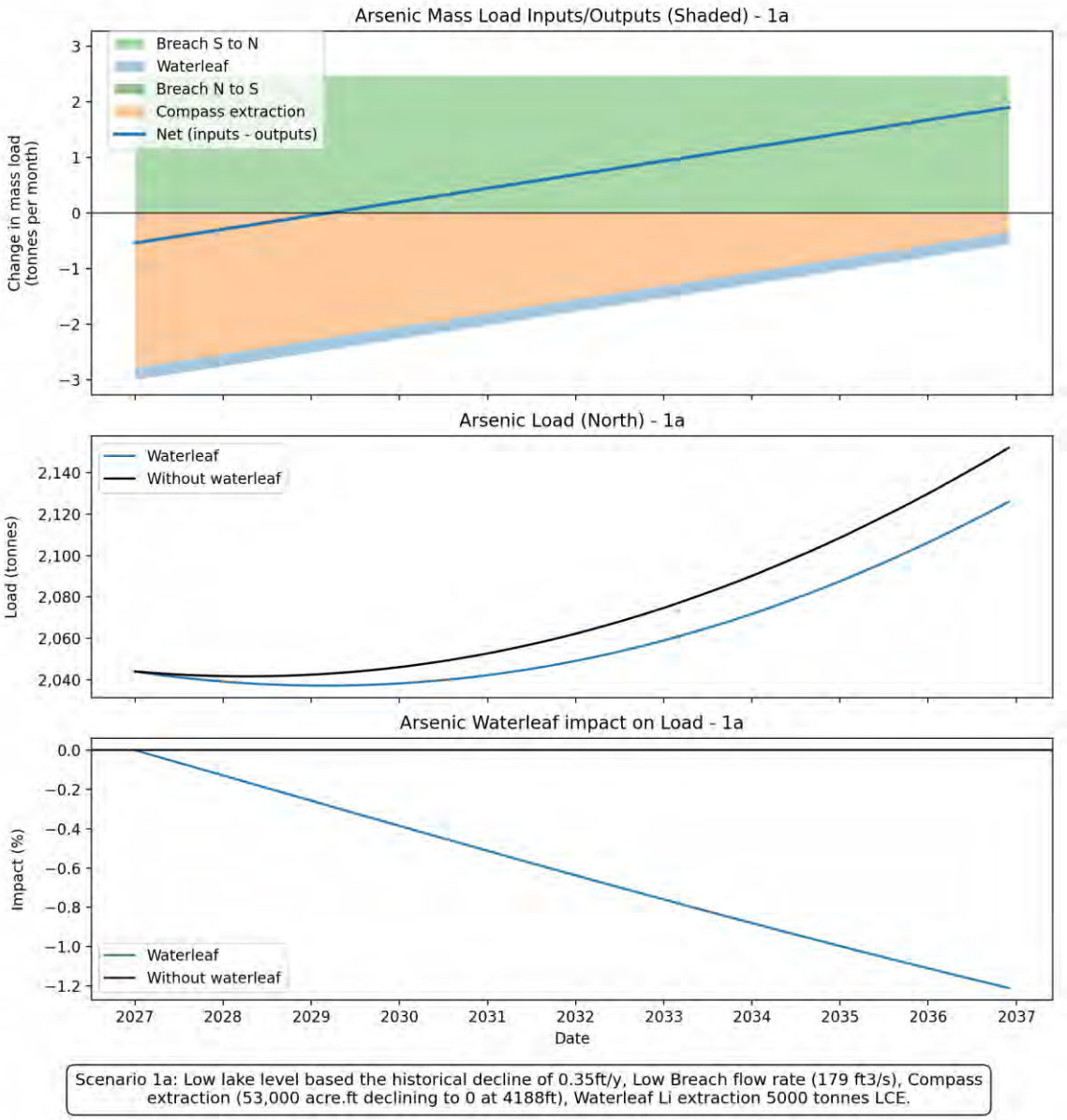


Figure 35: monthly mass balance arsenic 1a

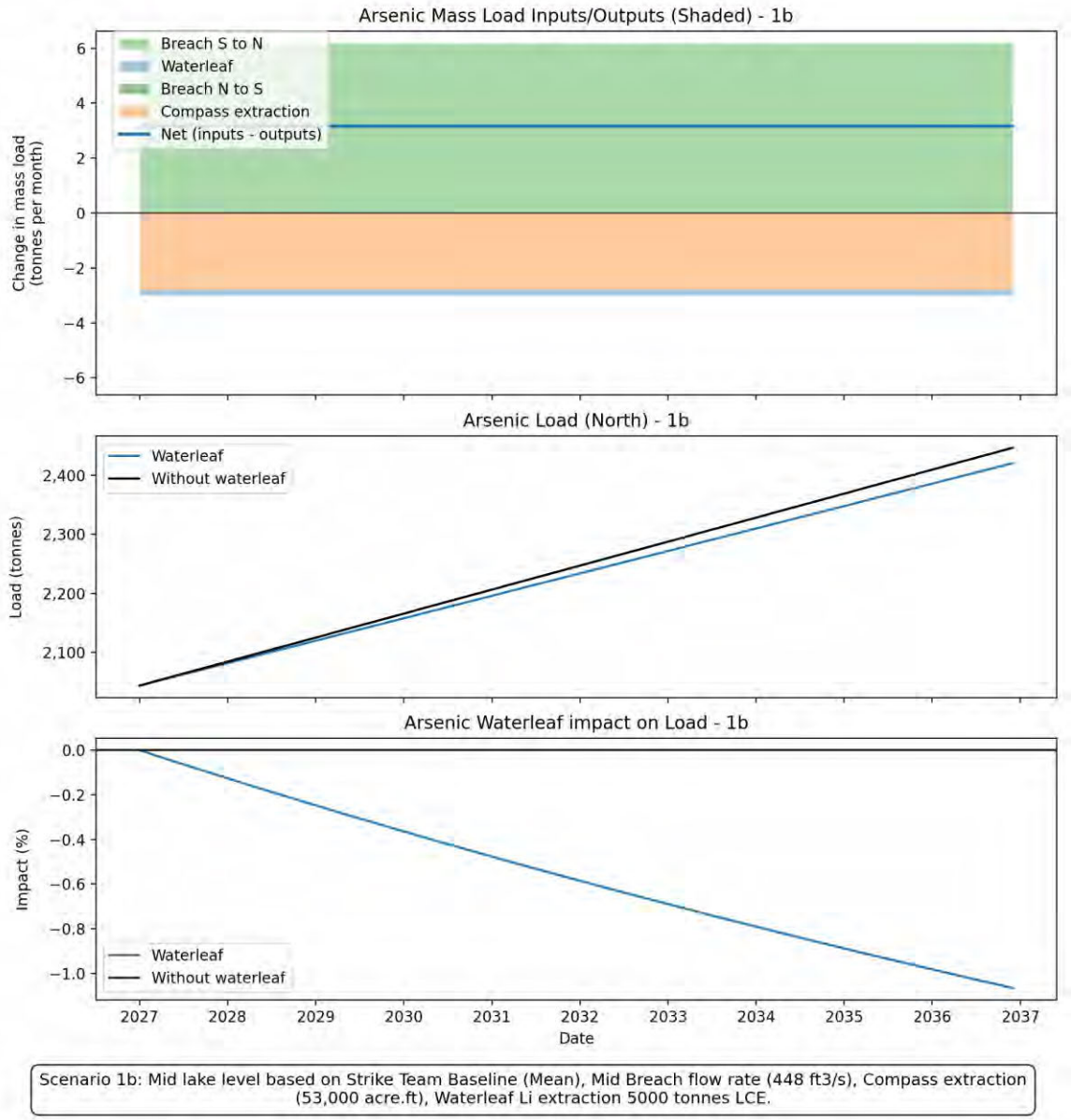


Figure 36: monthly mass balance arsenic 1b

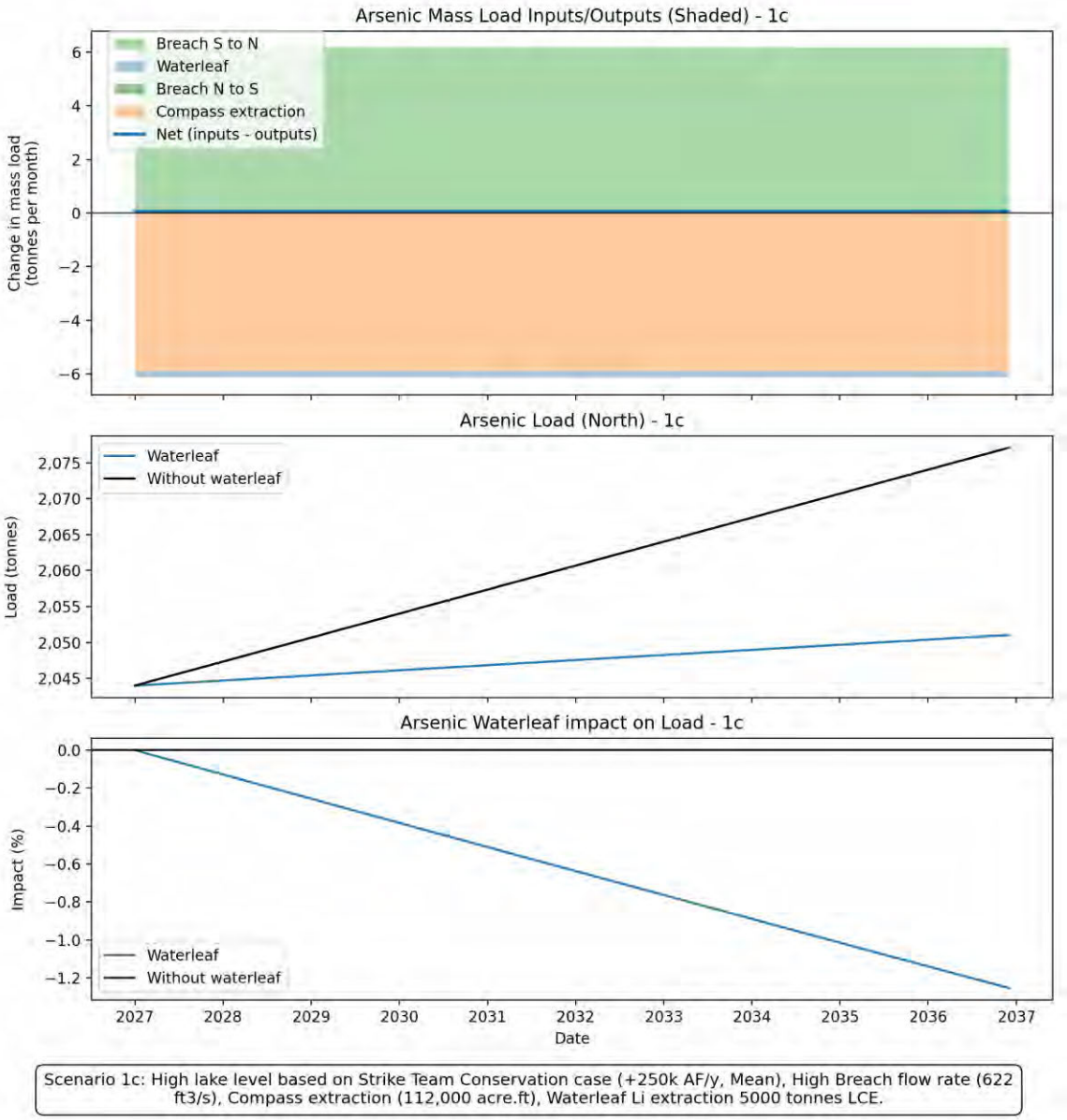


Figure 37: monthly mass balance arsenic 1c

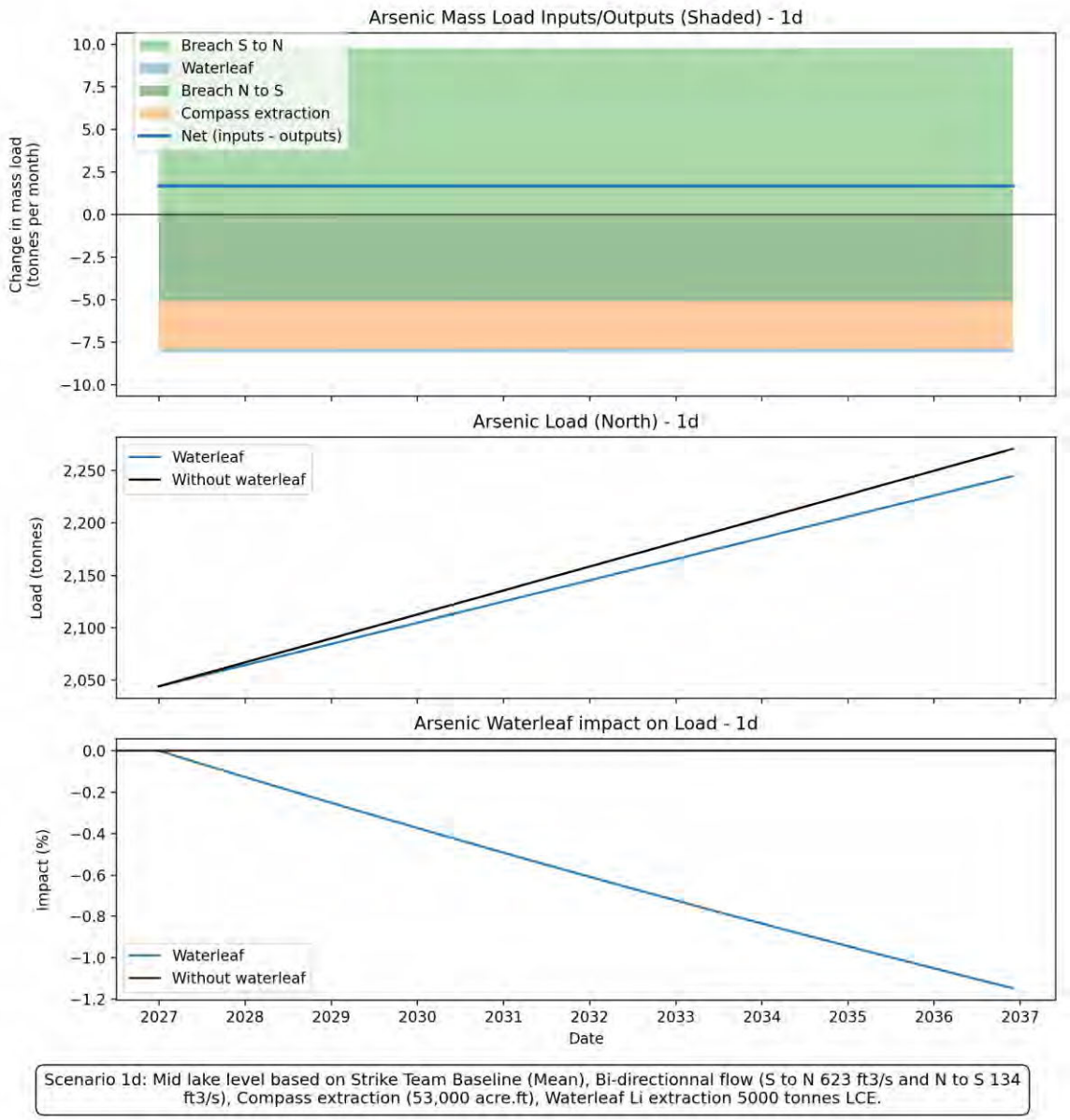


Figure 38: monthly mass balance arsenic 1d

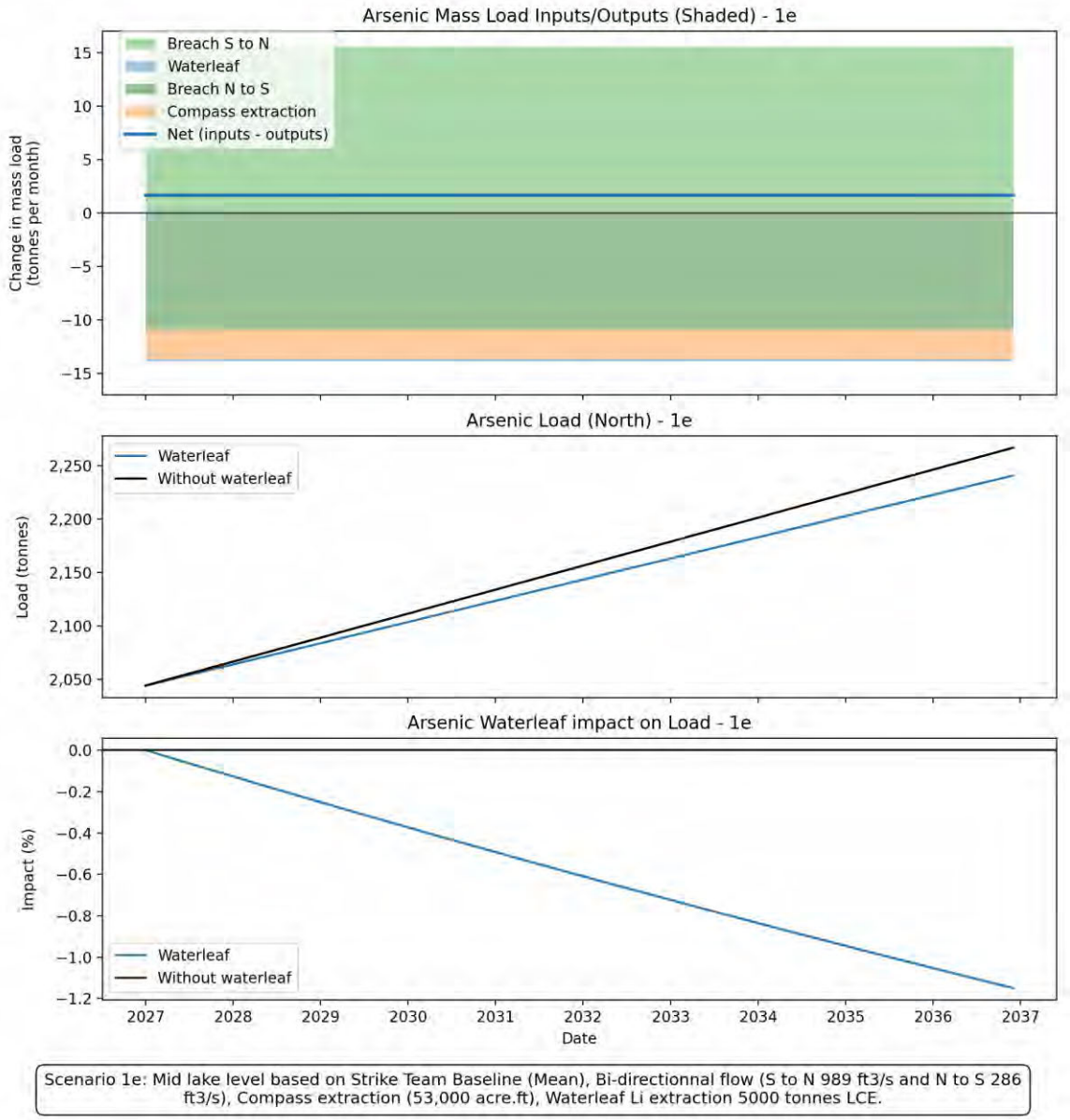


Figure 39: monthly mass balance arsenic 1e

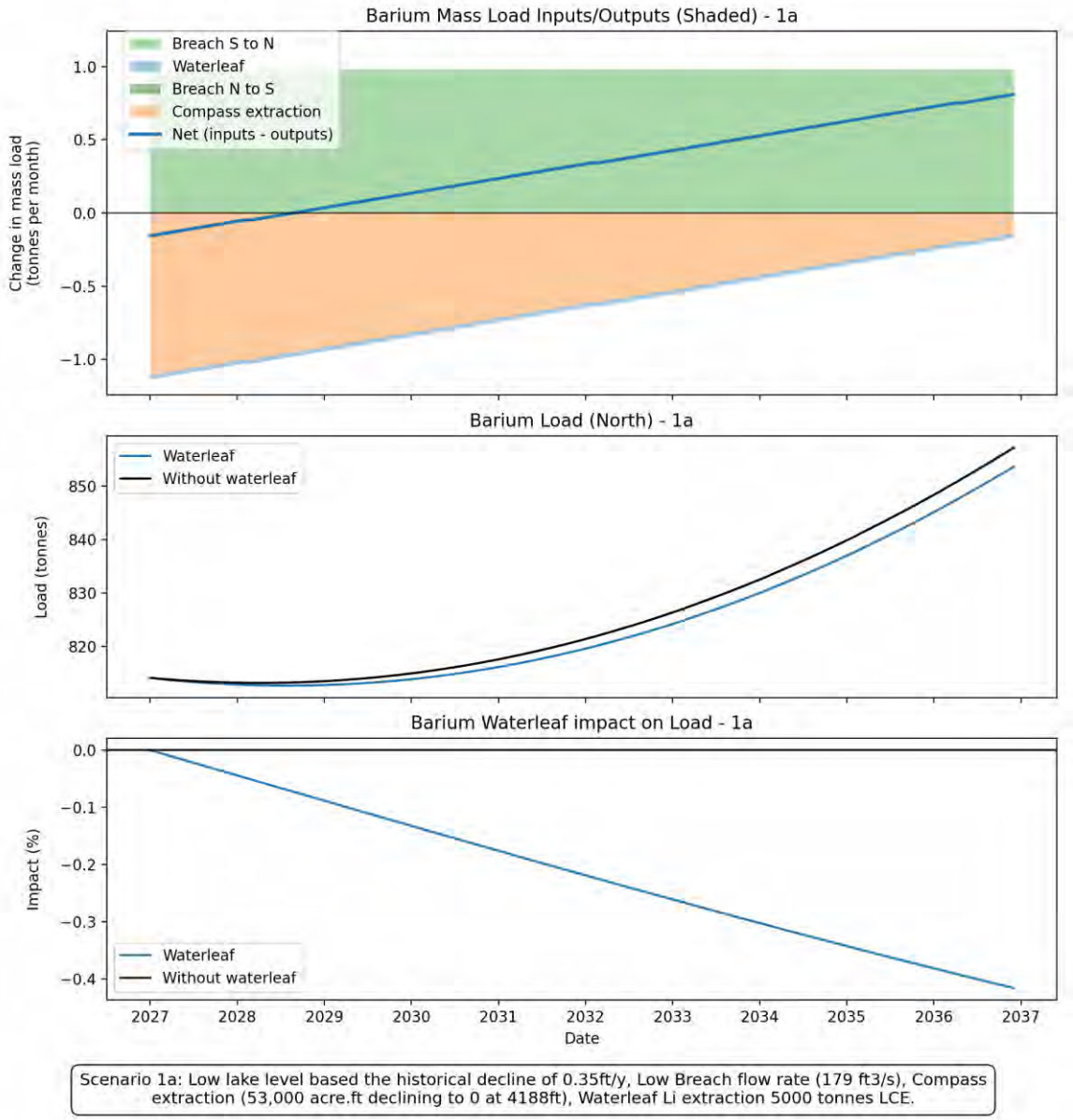


Figure 40: monthly mass balance barium 1a

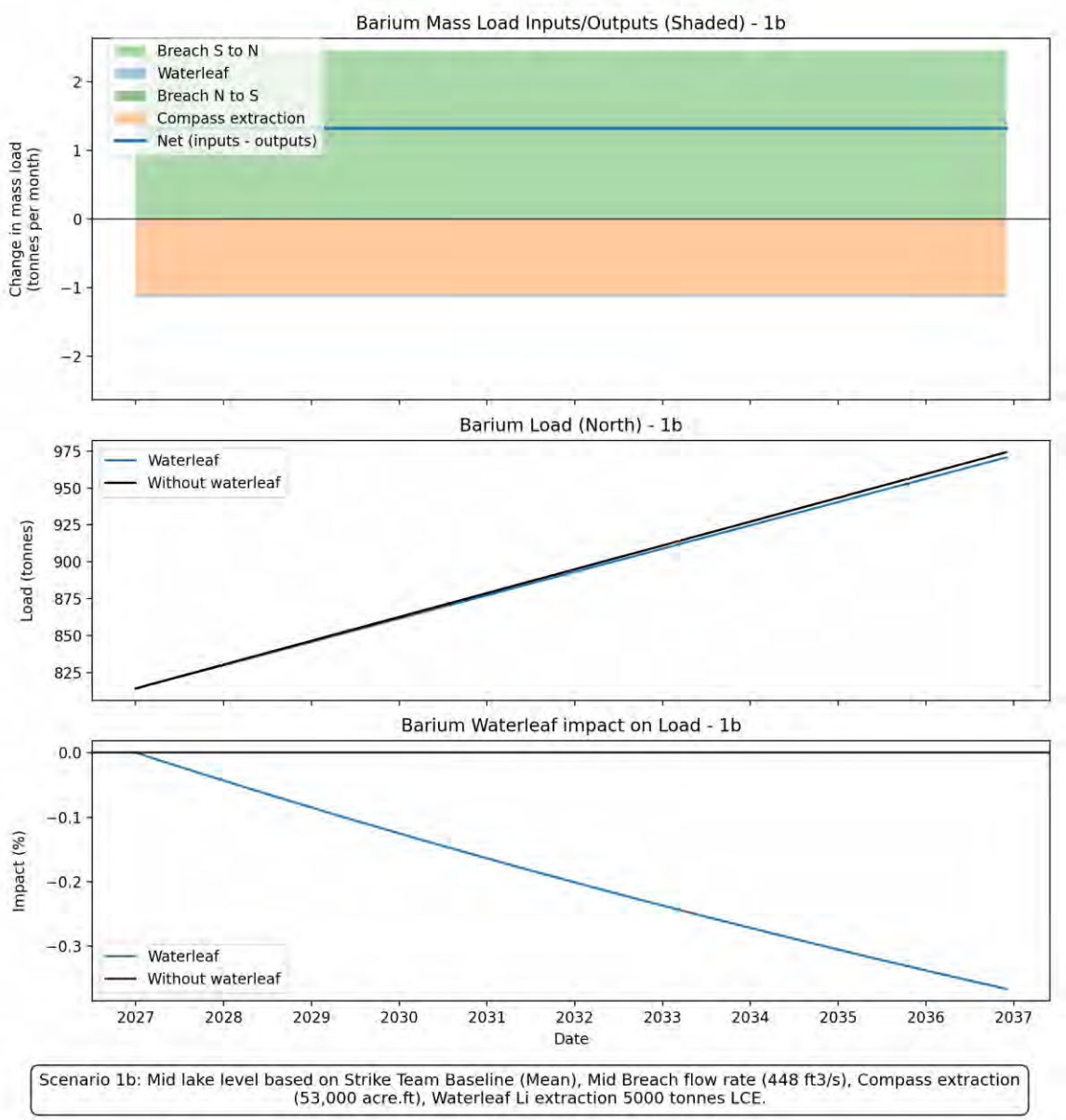


Figure 41: monthly mass balance barium 1b

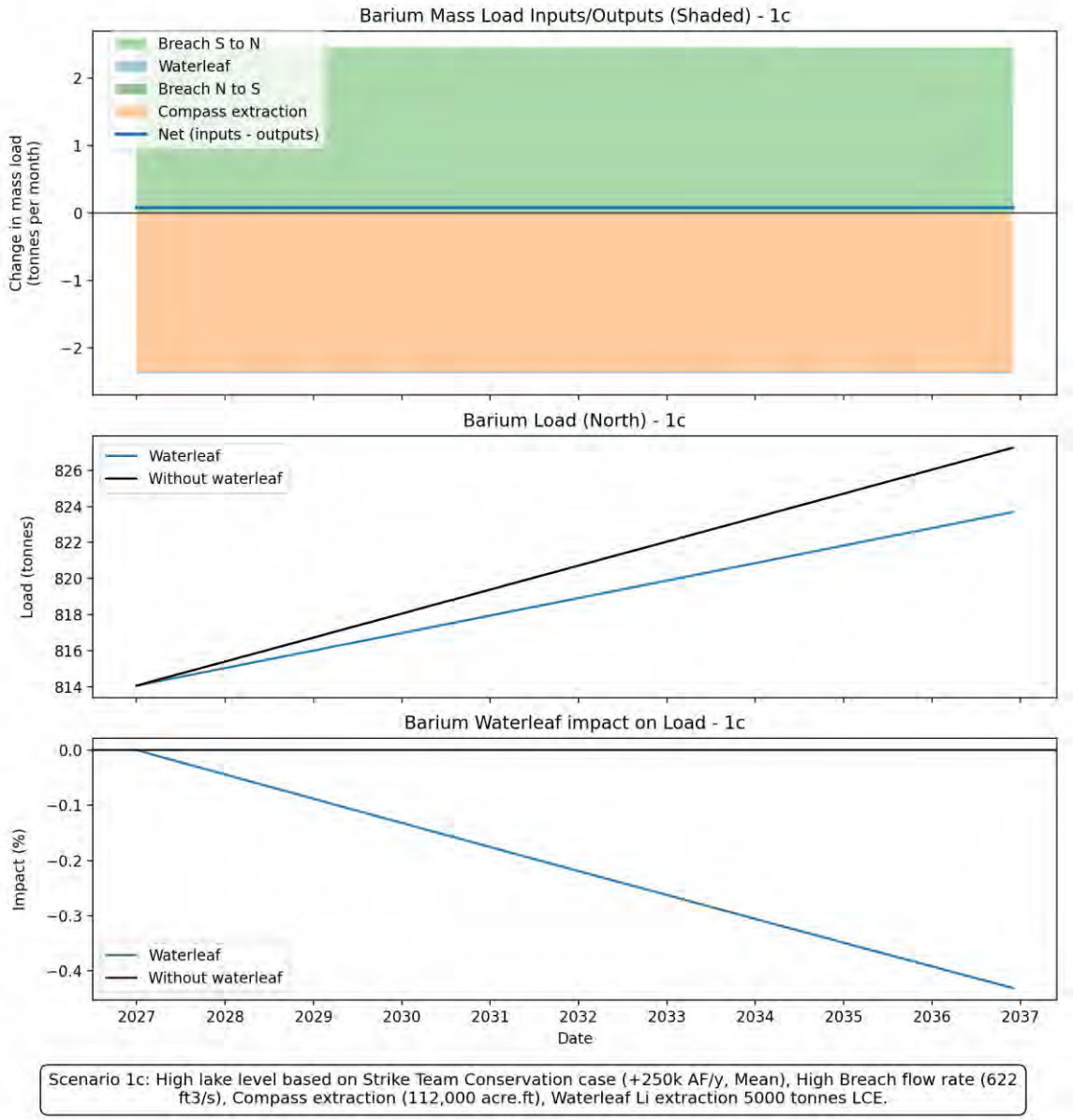


Figure 42: monthly mass balance barium 1c

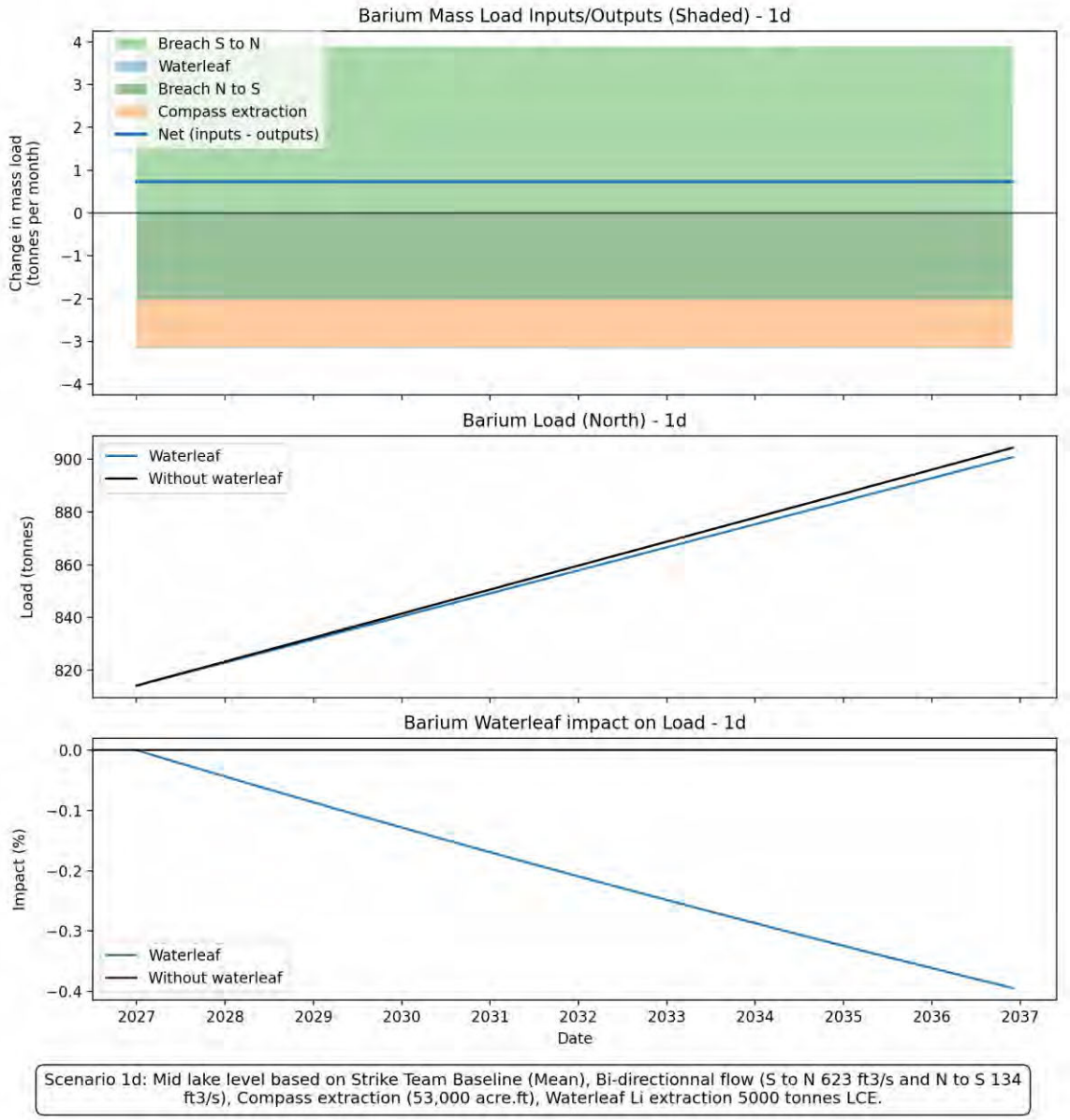


Figure 43: monthly mass balance barium 1d

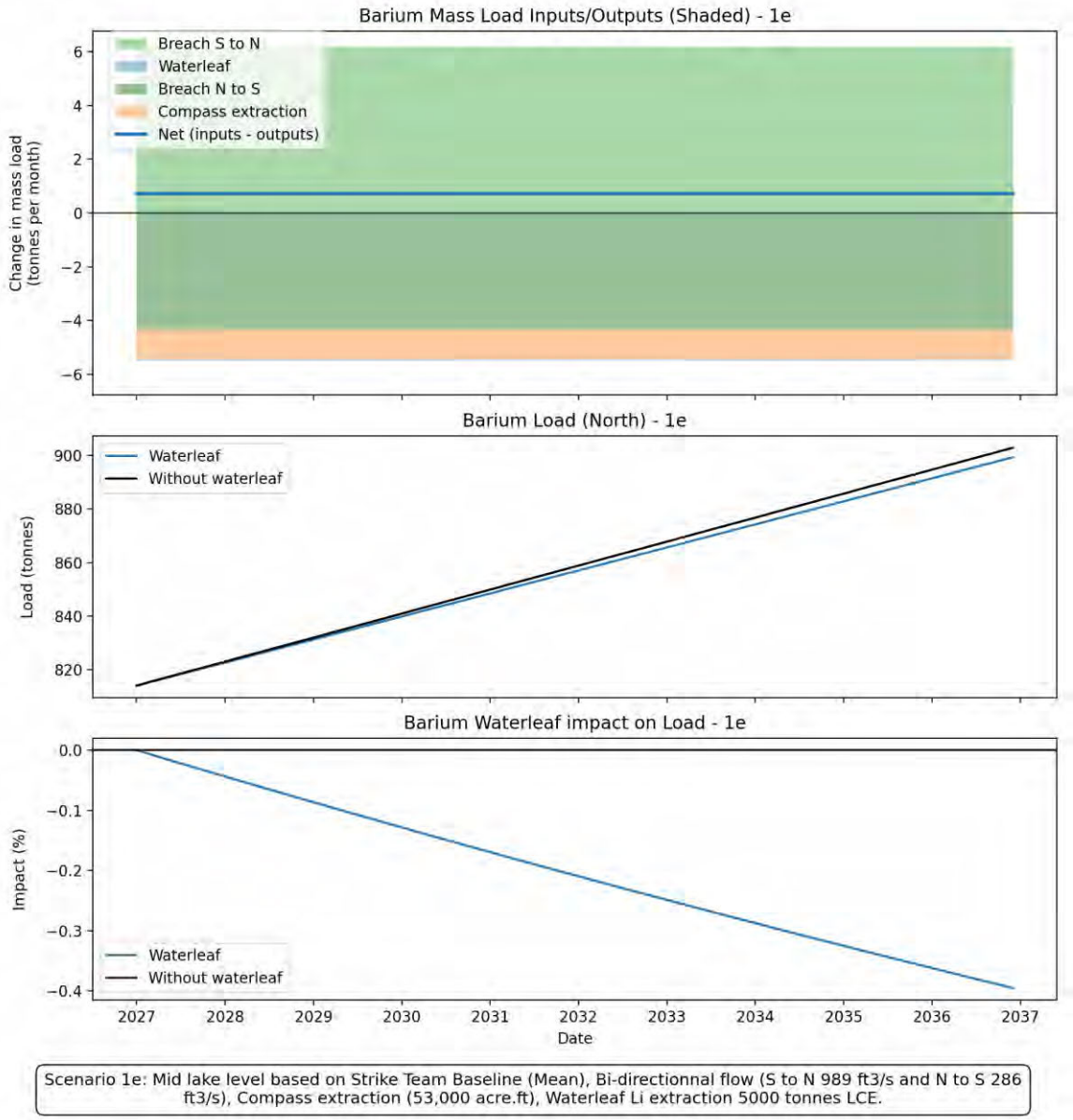


Figure 44: monthly mass balance barium 1e

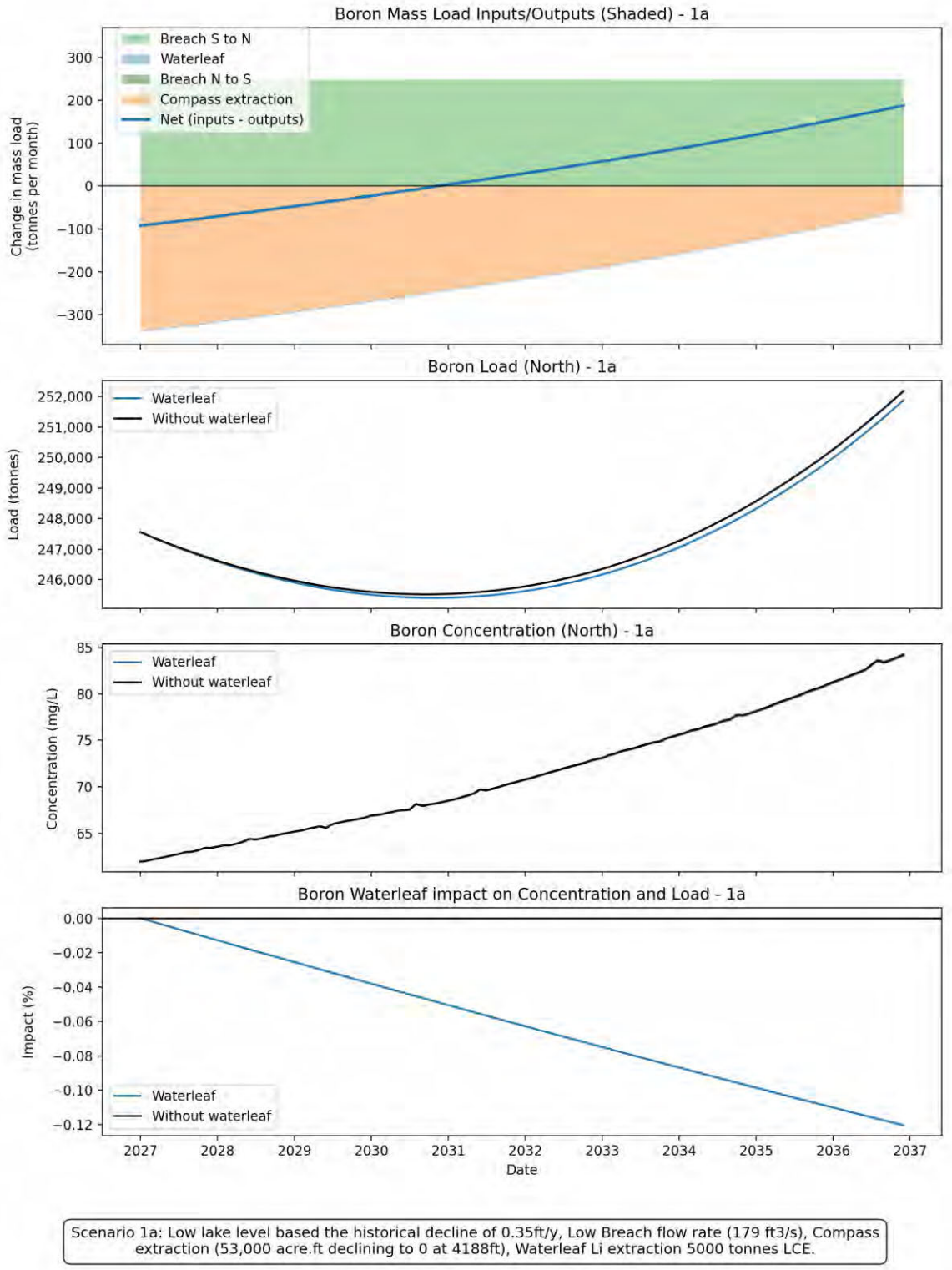


Figure 45: monthly mass balance boron 1a

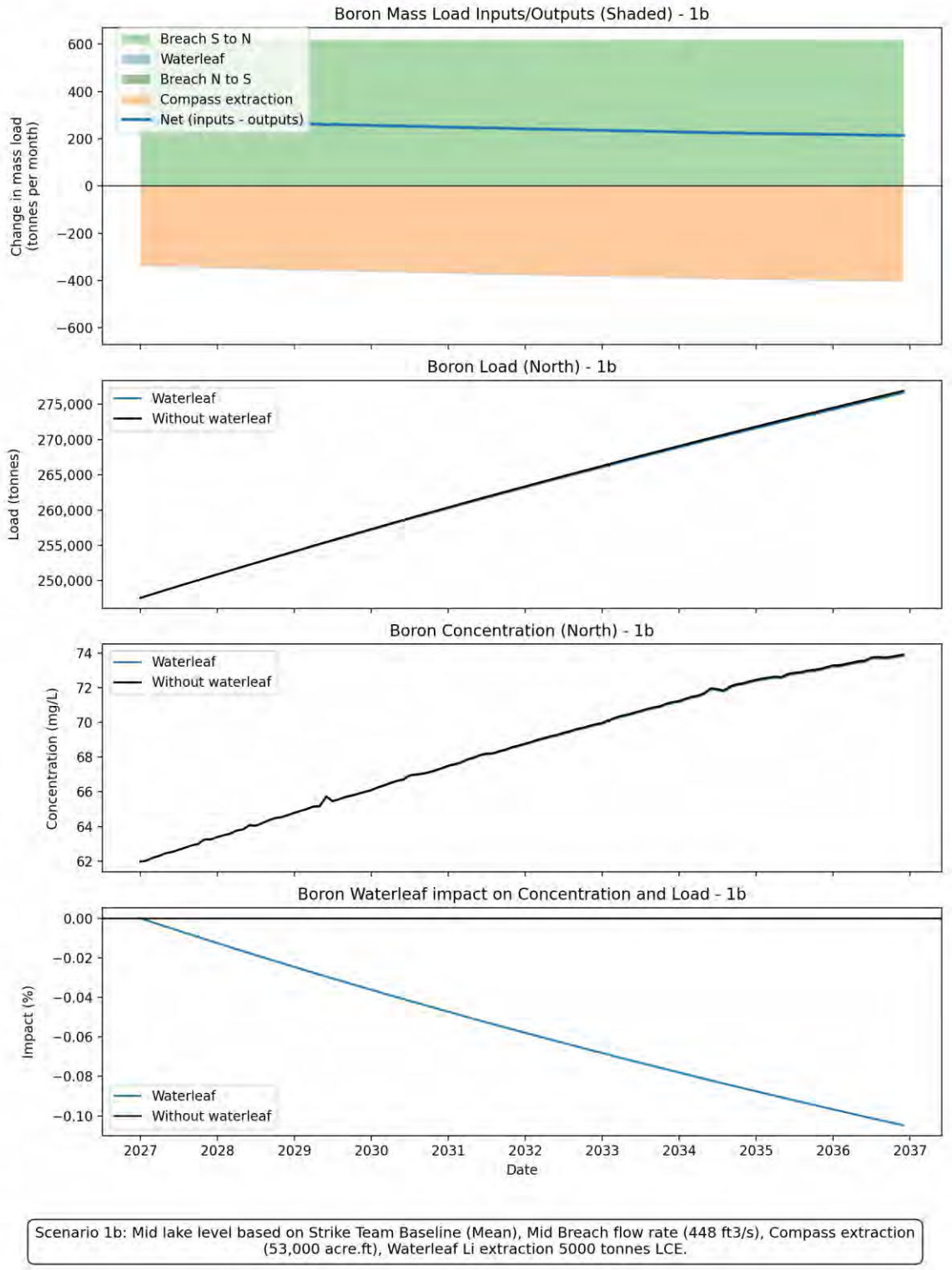


Figure 46: monthly mass balance boron 1b

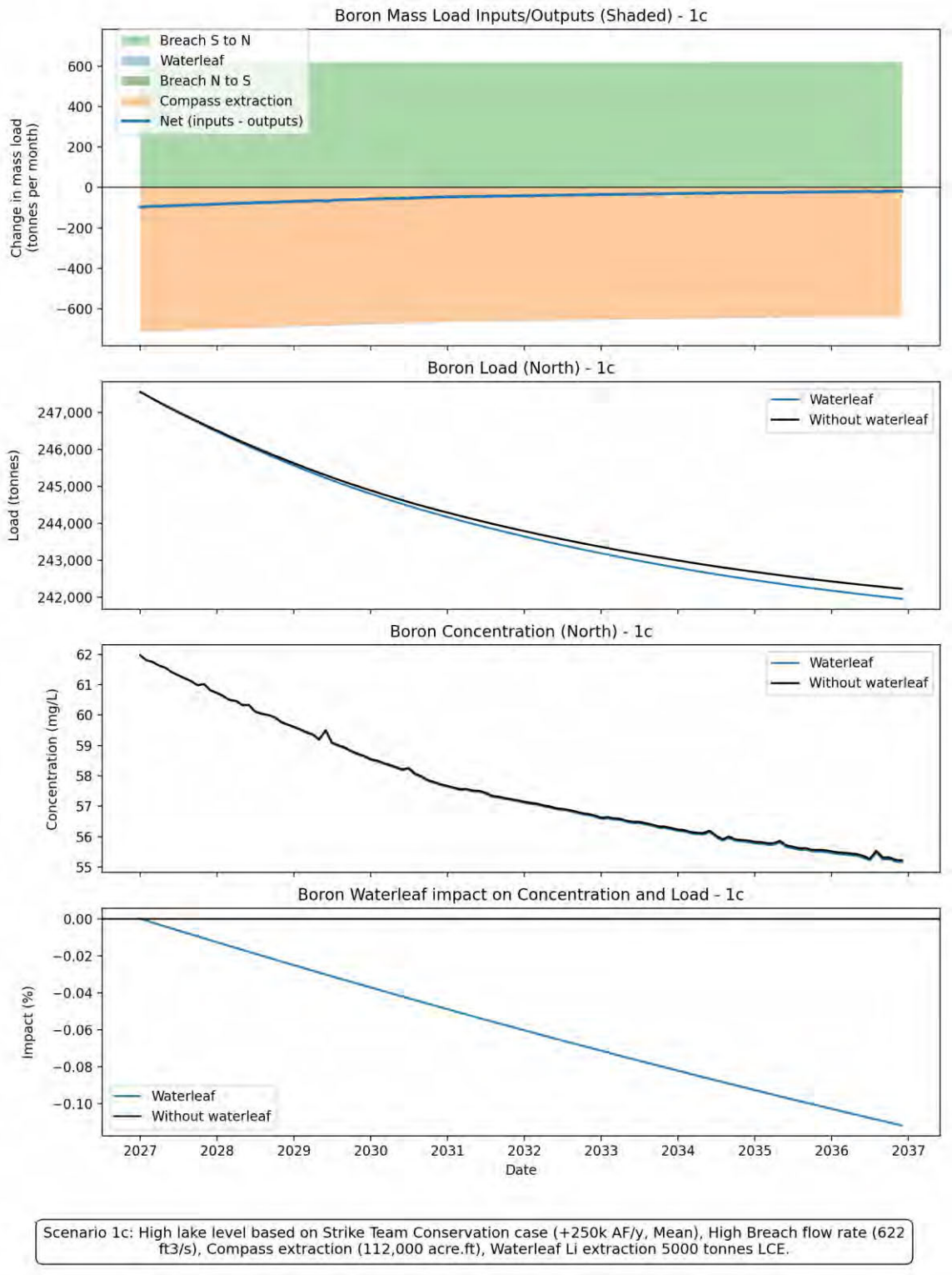


Figure 47: monthly mass balance boron 1c

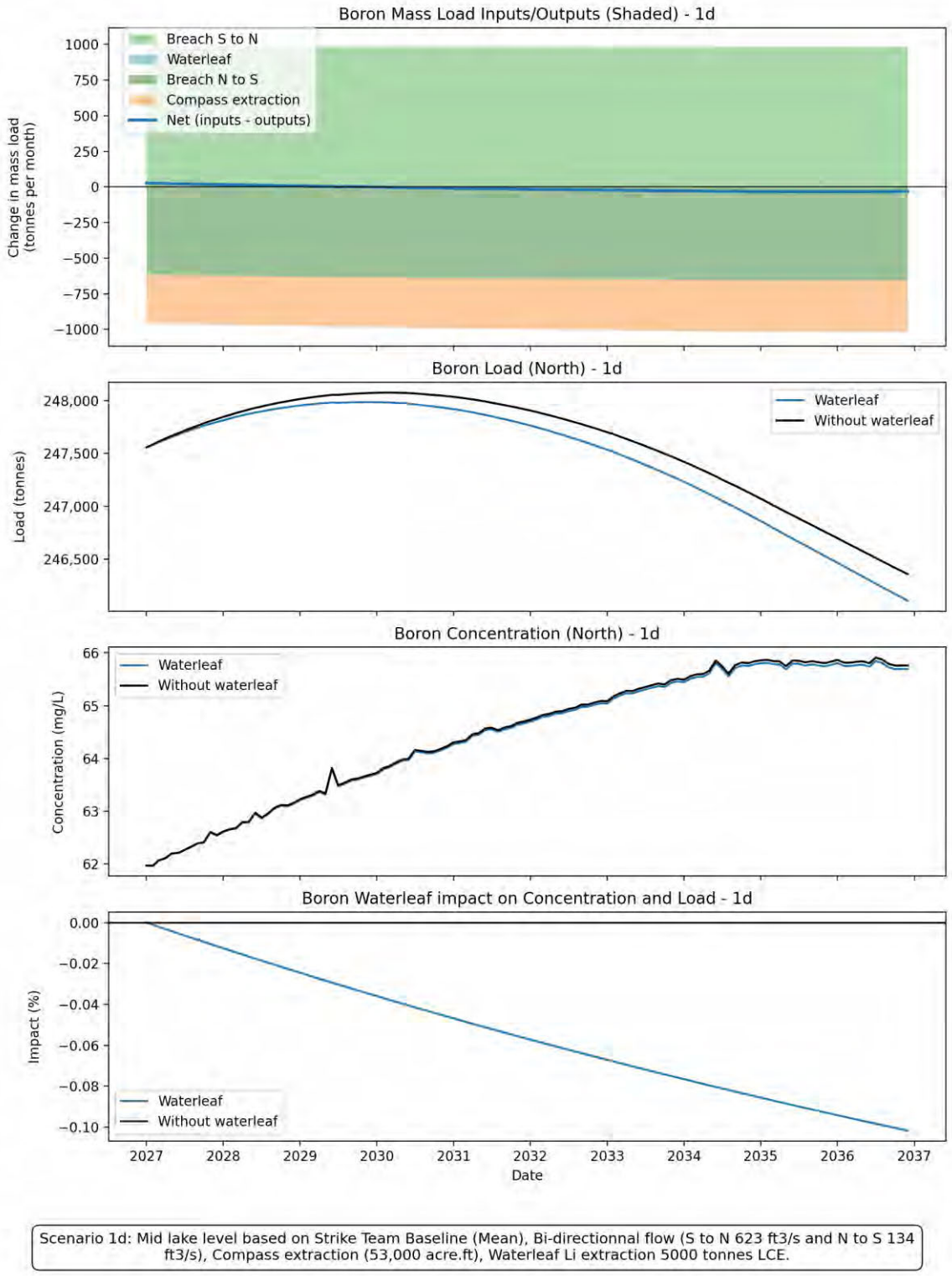


Figure 48: monthly mass balance boron 1d

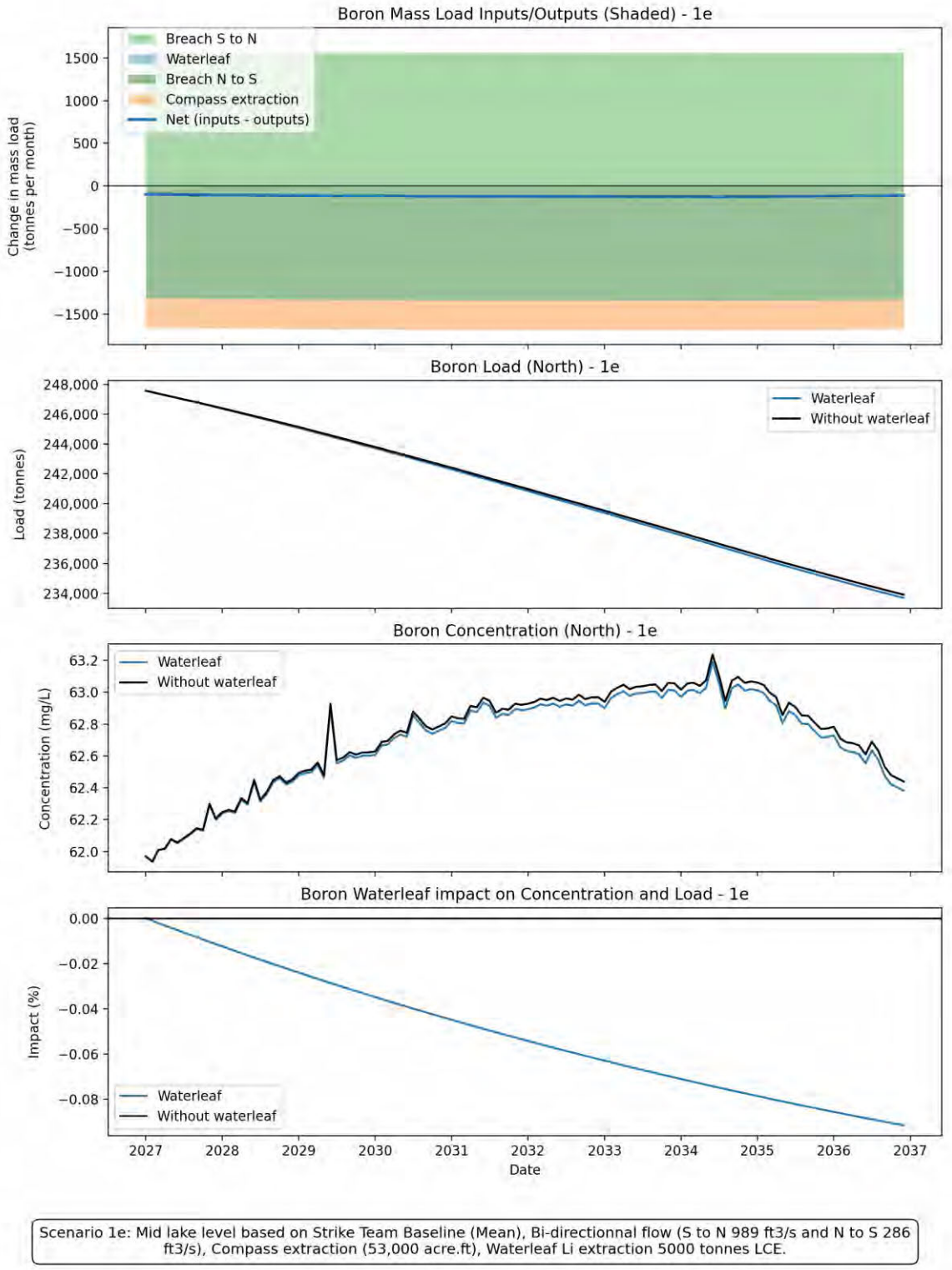


Figure 49: monthly mass balance boron 1e

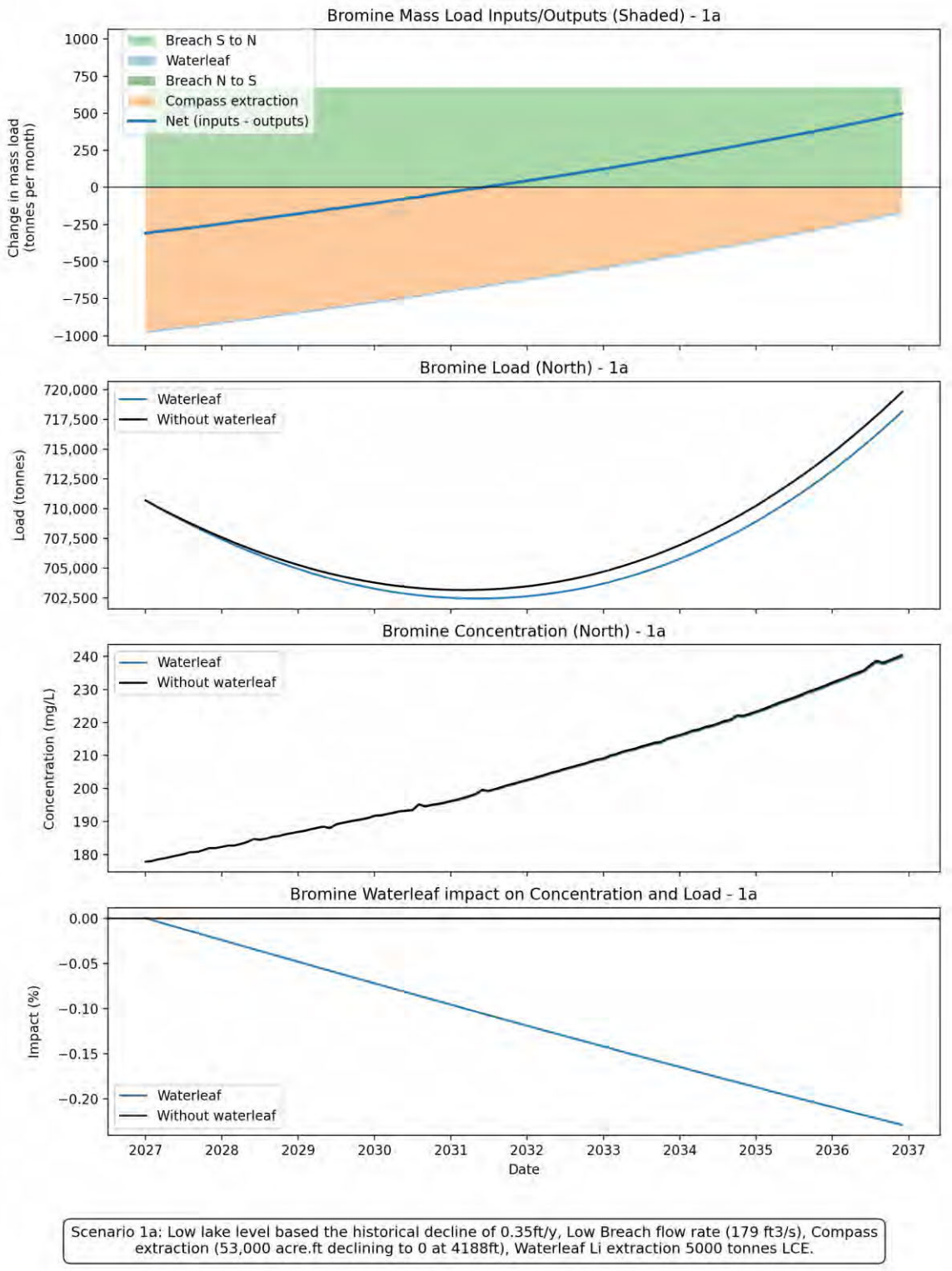


Figure 50: monthly mass balance bromine 1a

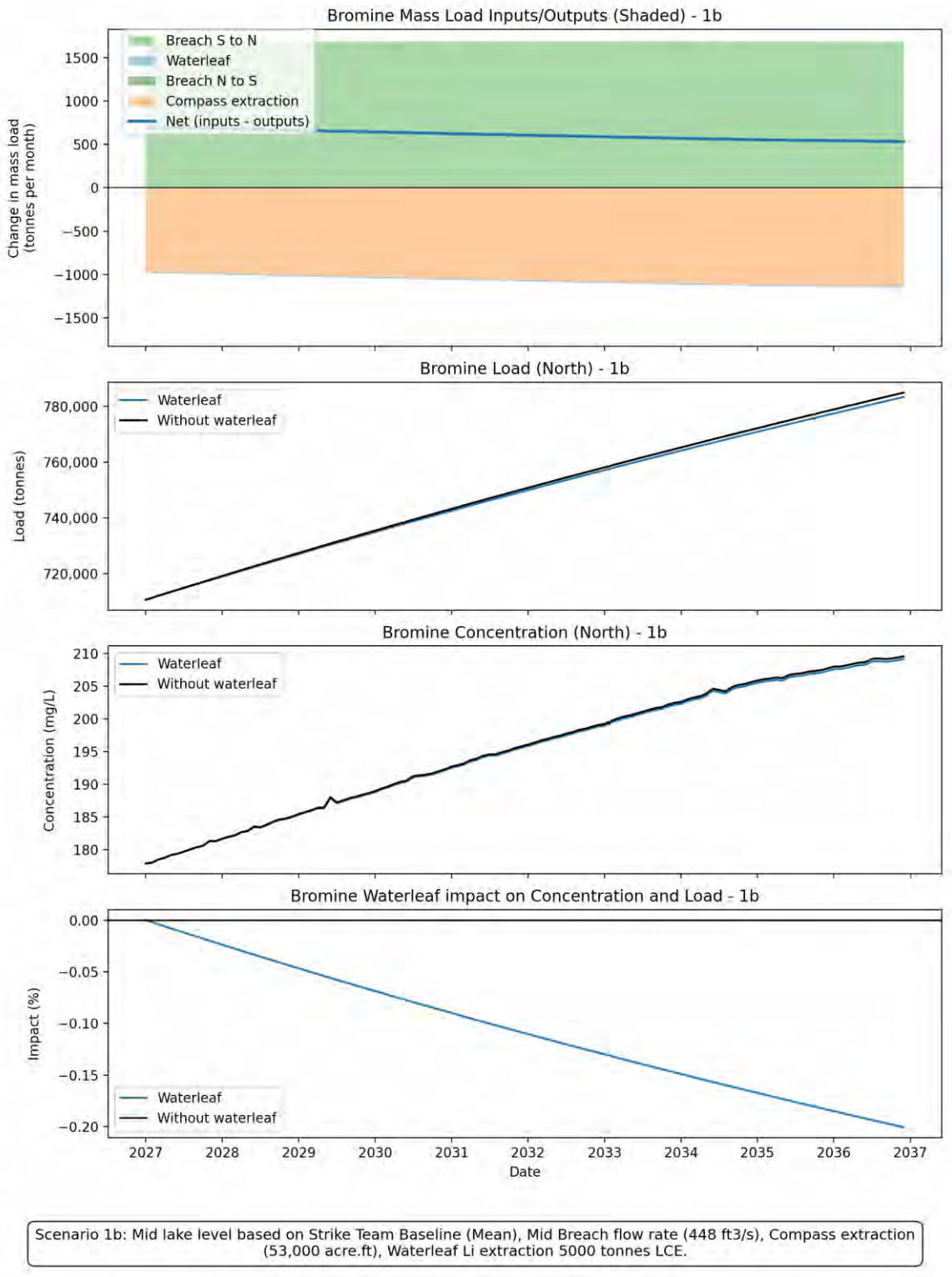


Figure 51: monthly mass balance bromine 1b

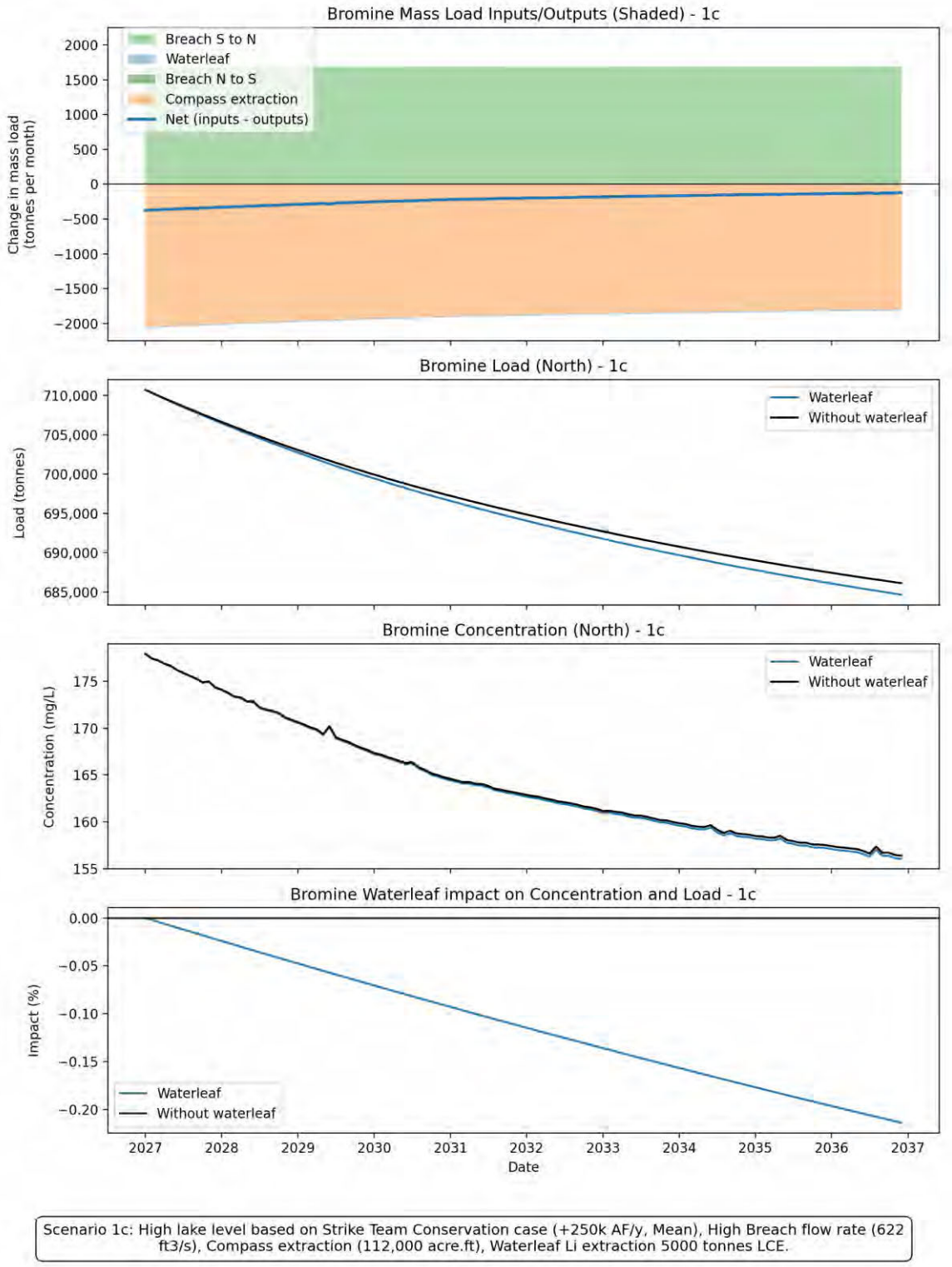


Figure 52: monthly mass balance bromine 1c

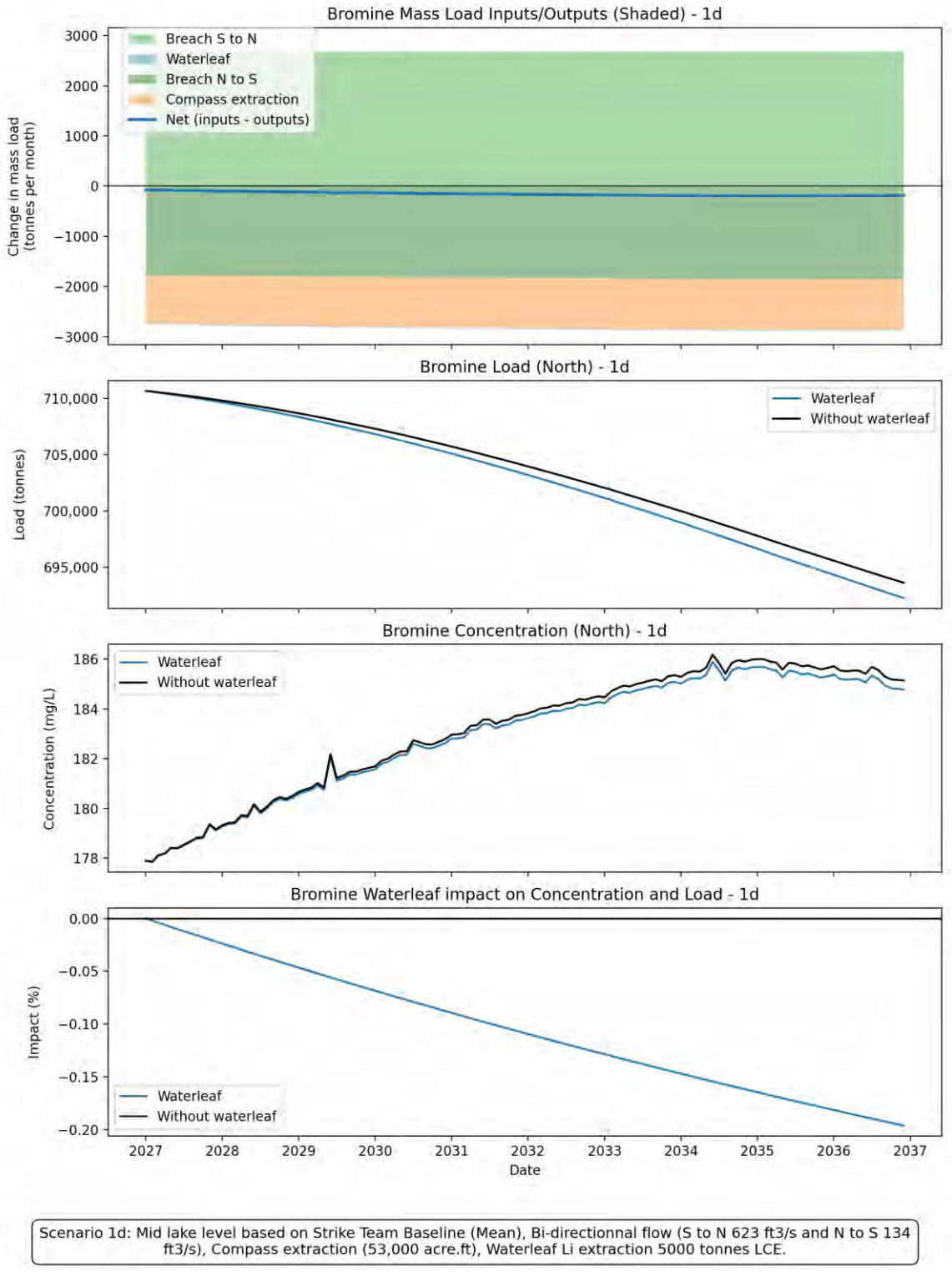


Figure 53: monthly mass balance bromine 1d

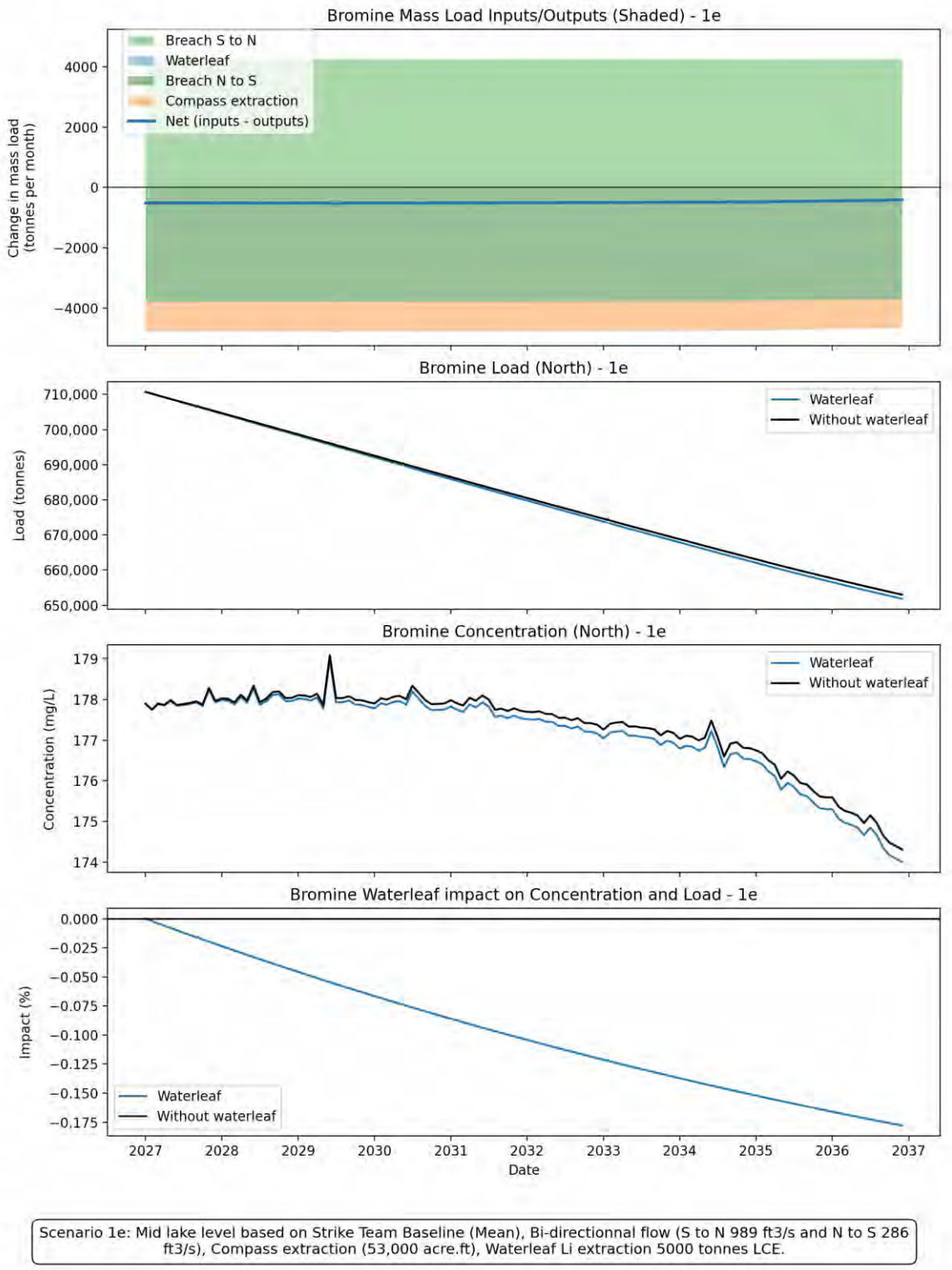


Figure 54: monthly mass balance bromine 1e

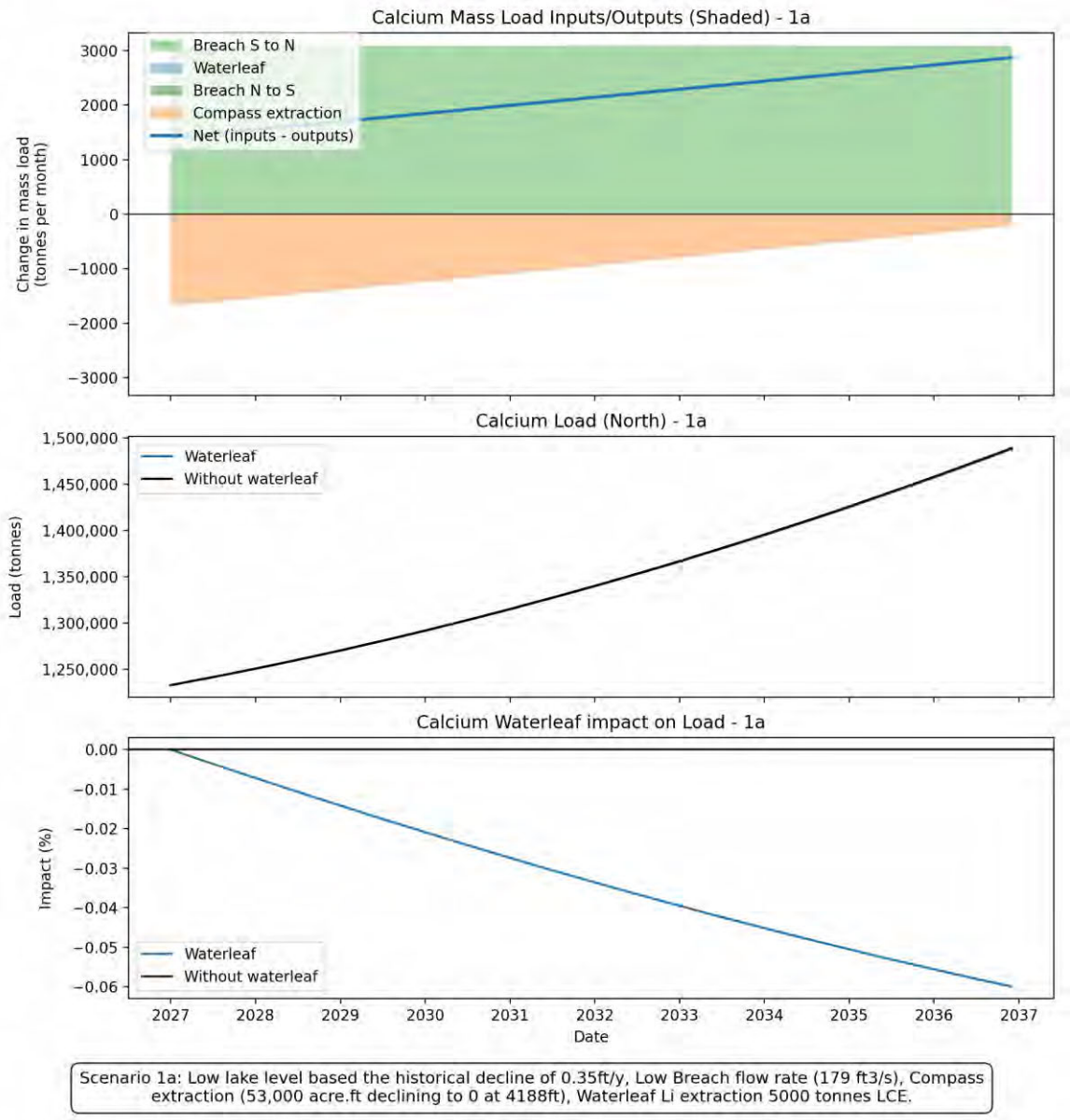


Figure 55: monthly mass balance calcium 1a

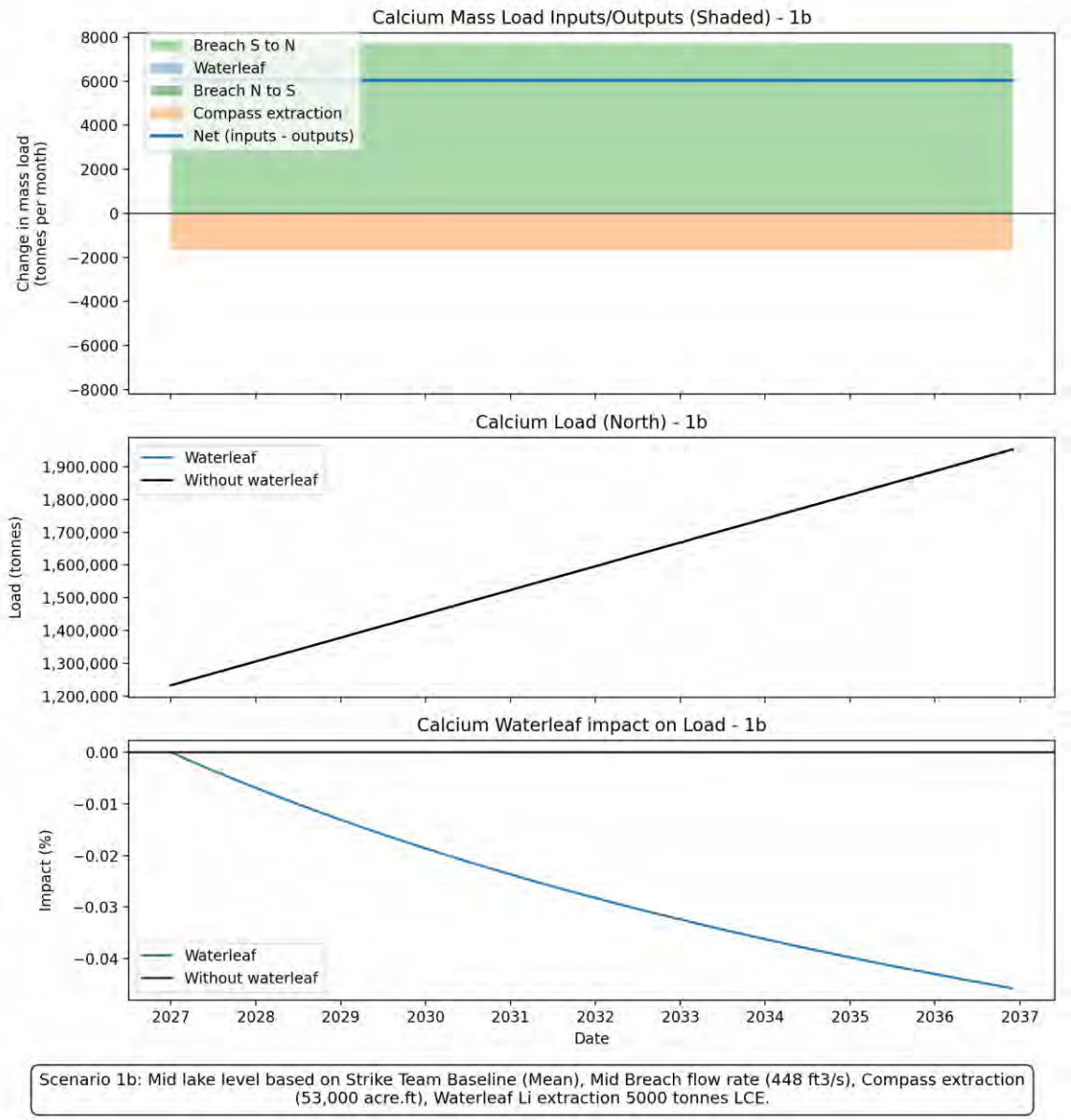


Figure 56: monthly mass balance calcium 1b

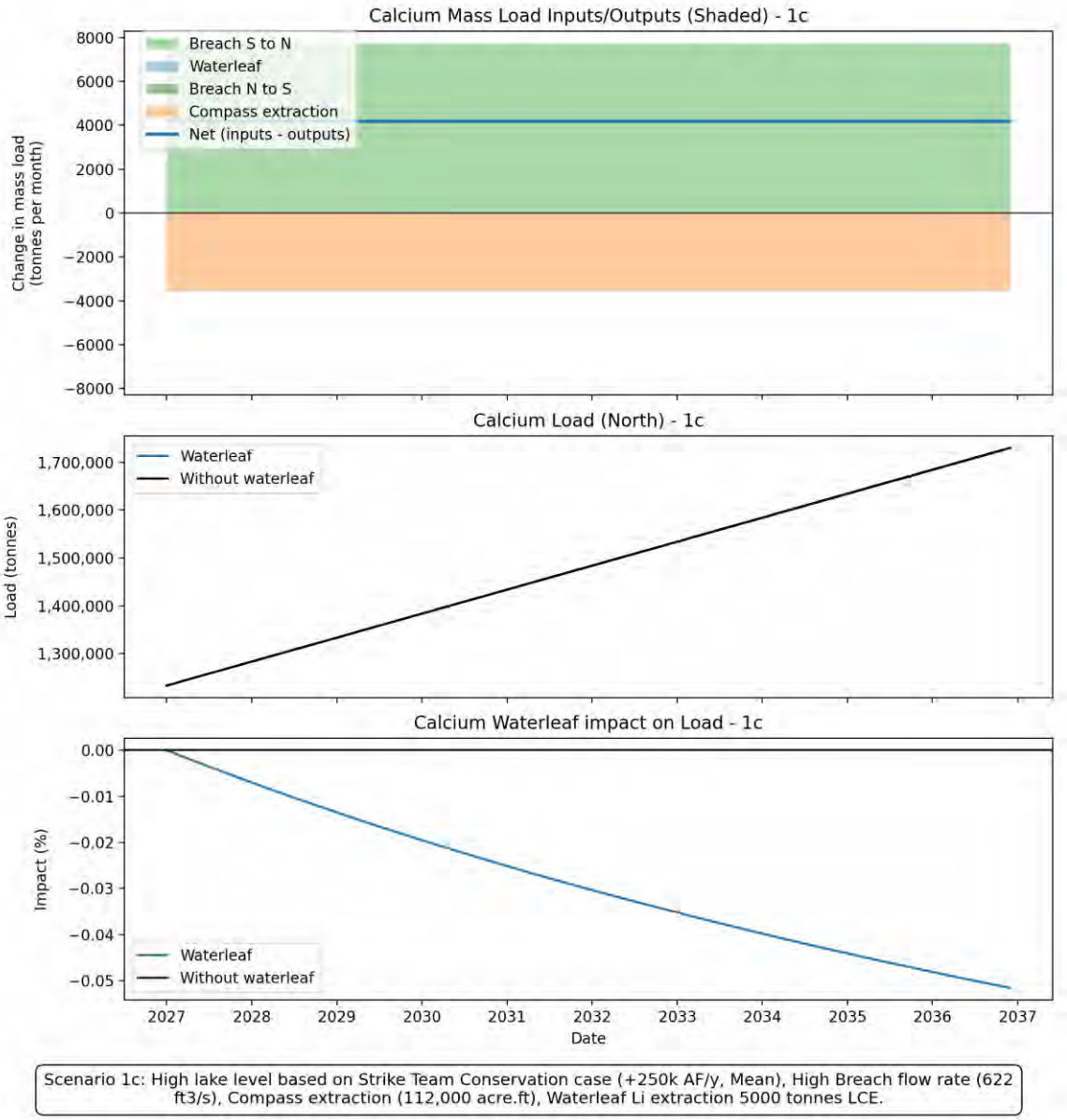


Figure 57: monthly mass balance calcium 1c

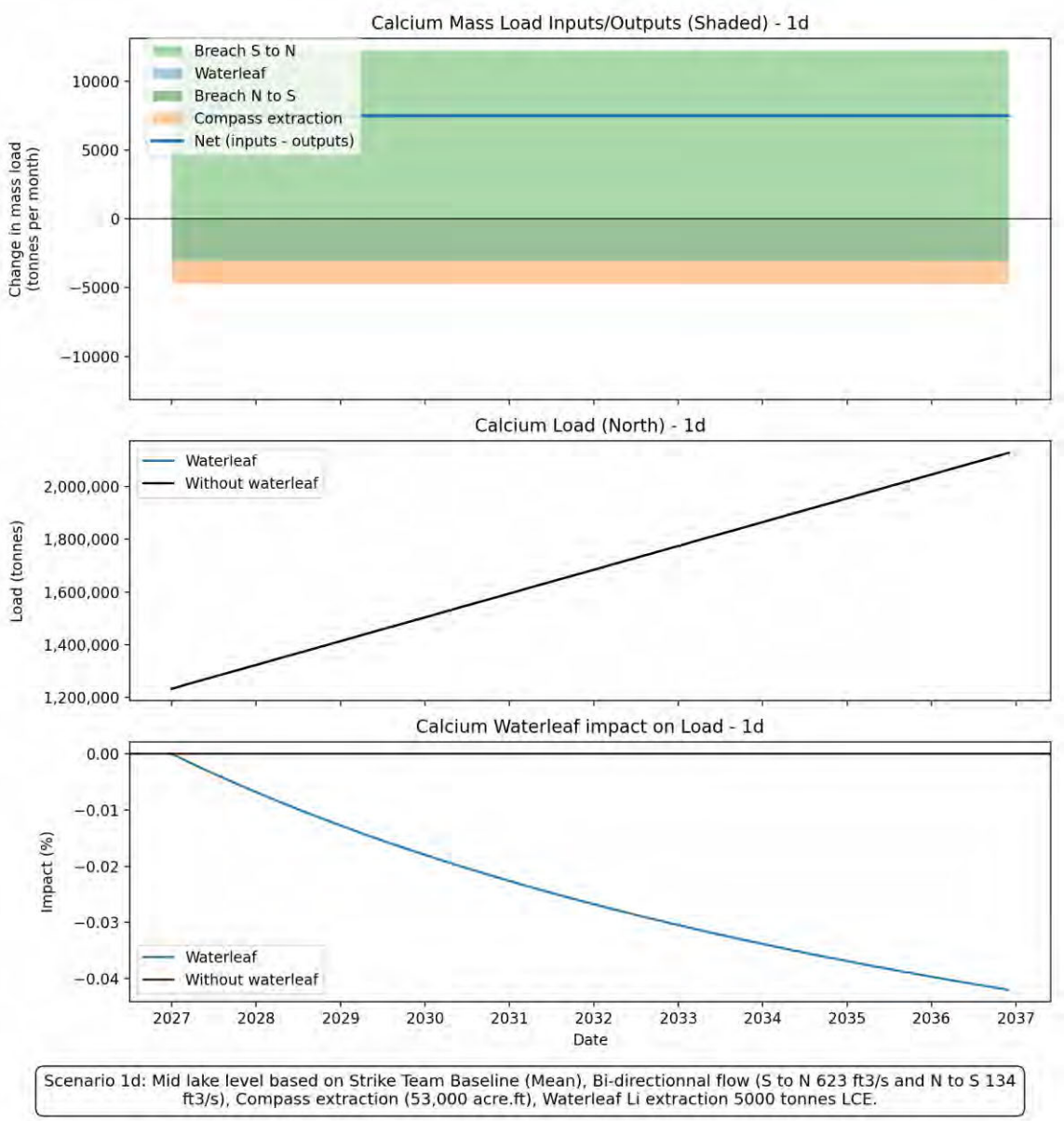


Figure 58: monthly mass balance calcium 1d

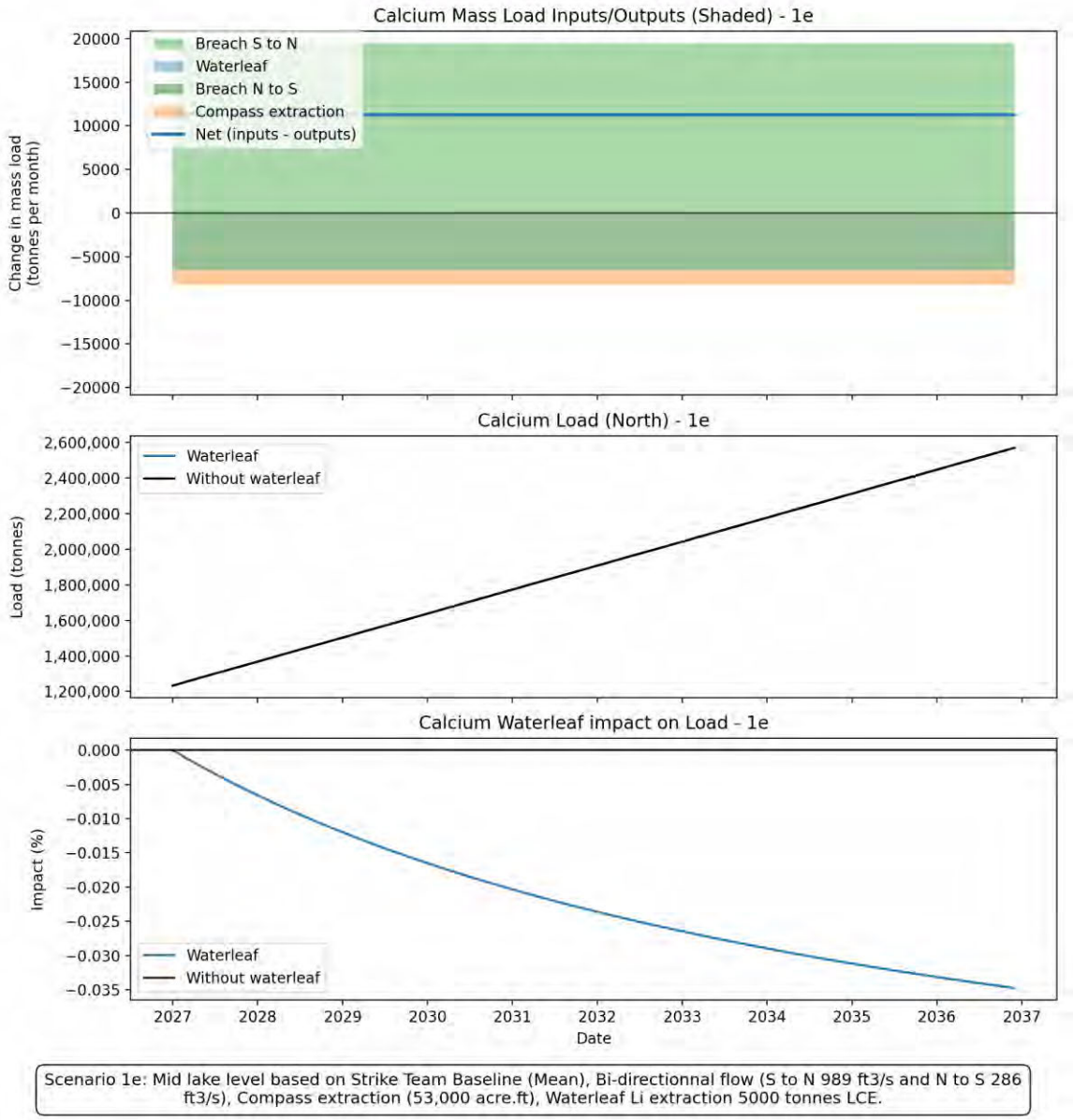


Figure 59: monthly mass balance calcium 1e

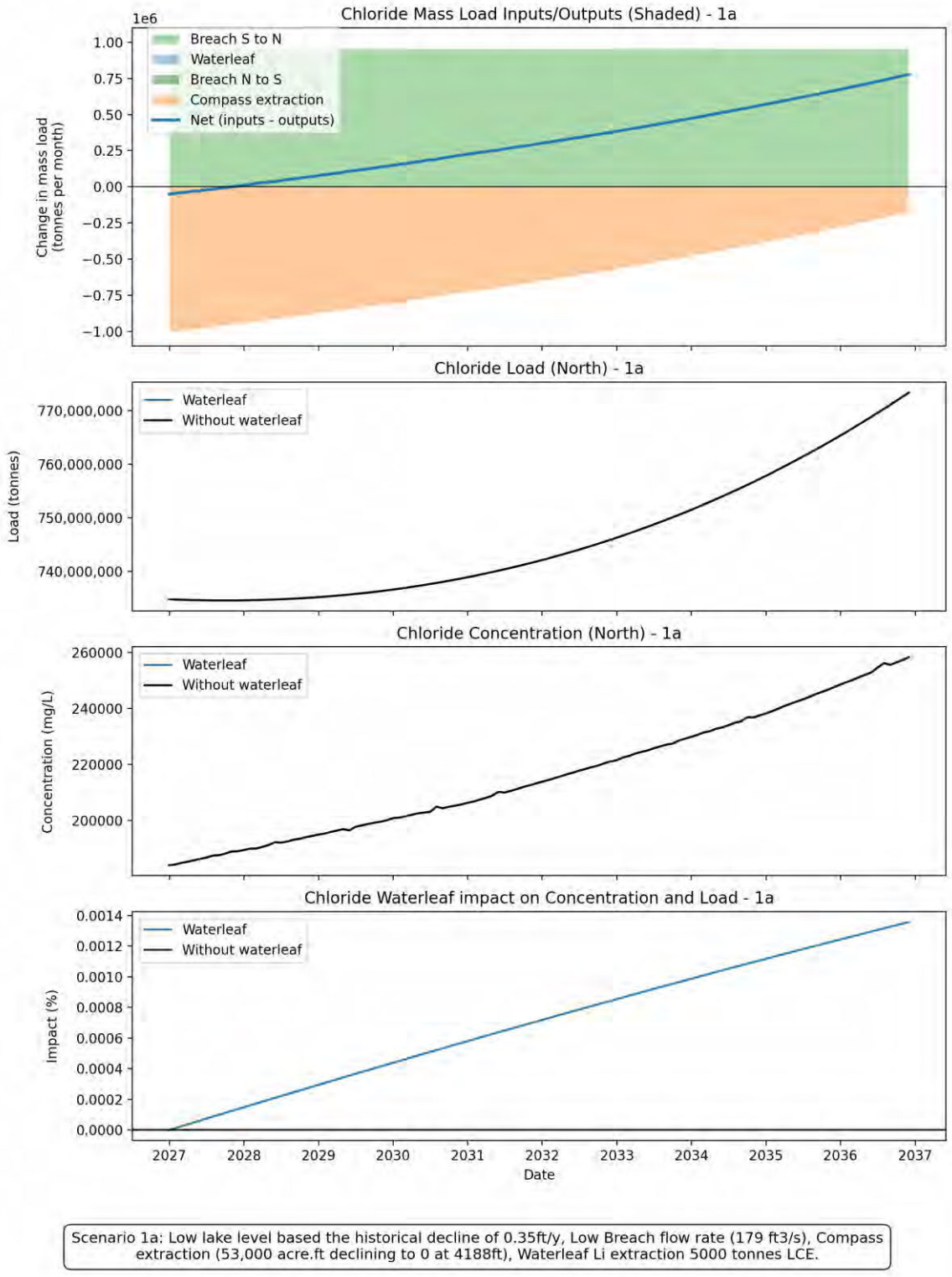


Figure 60: monthly mass balance chloride 1a

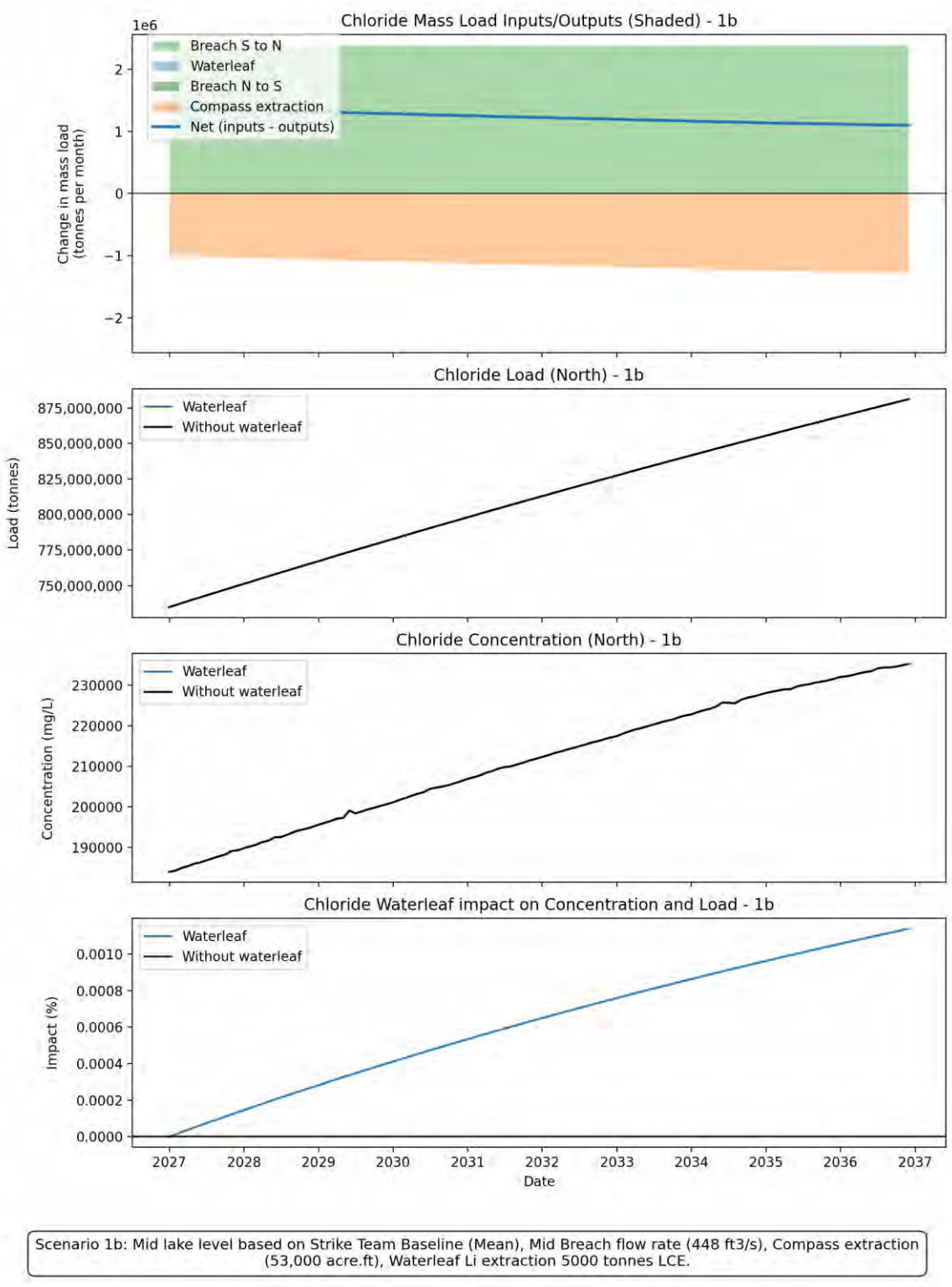


Figure 61: monthly mass balance chloride 1b

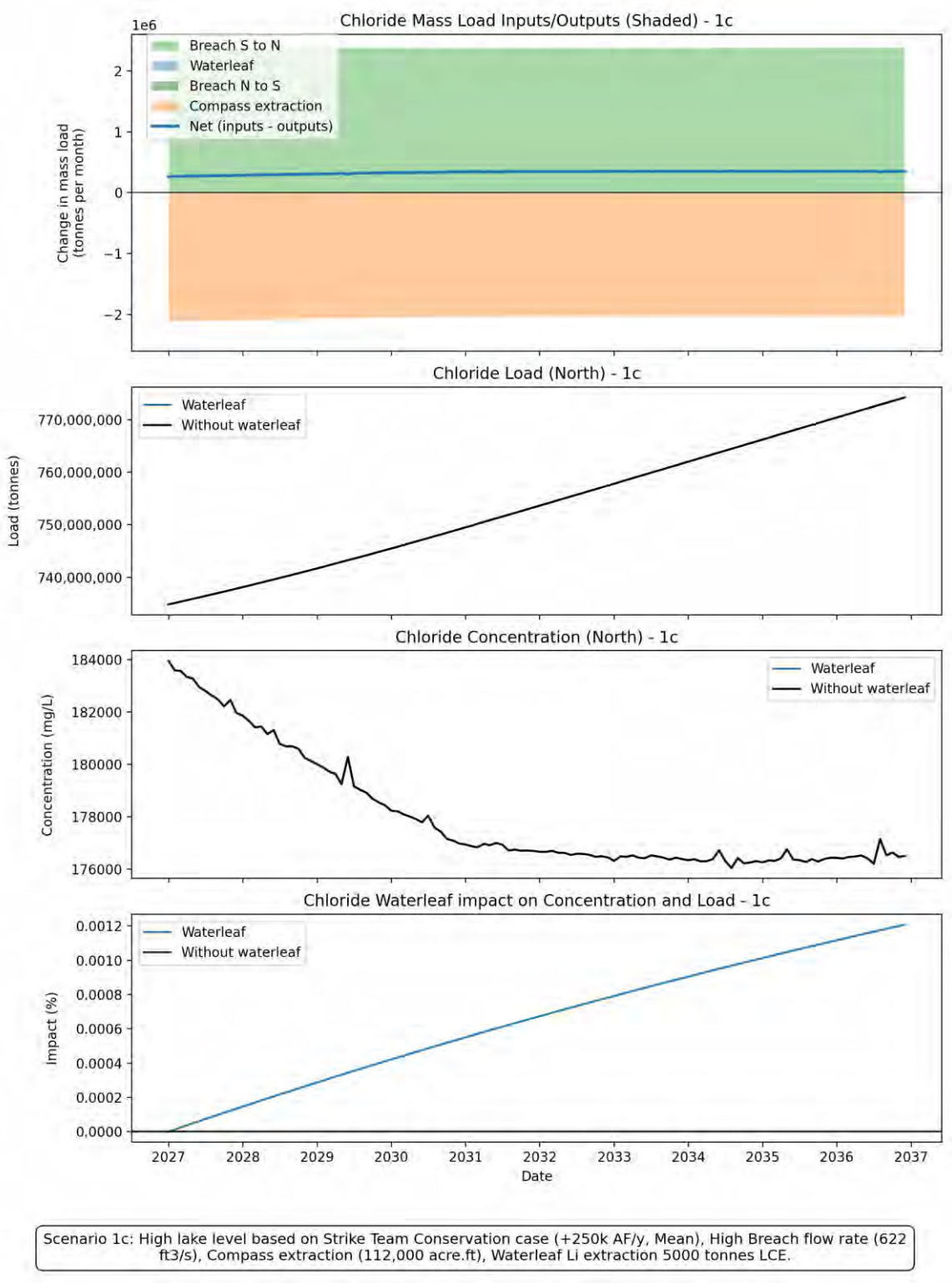


Figure 62: monthly mass balance chloride 1c

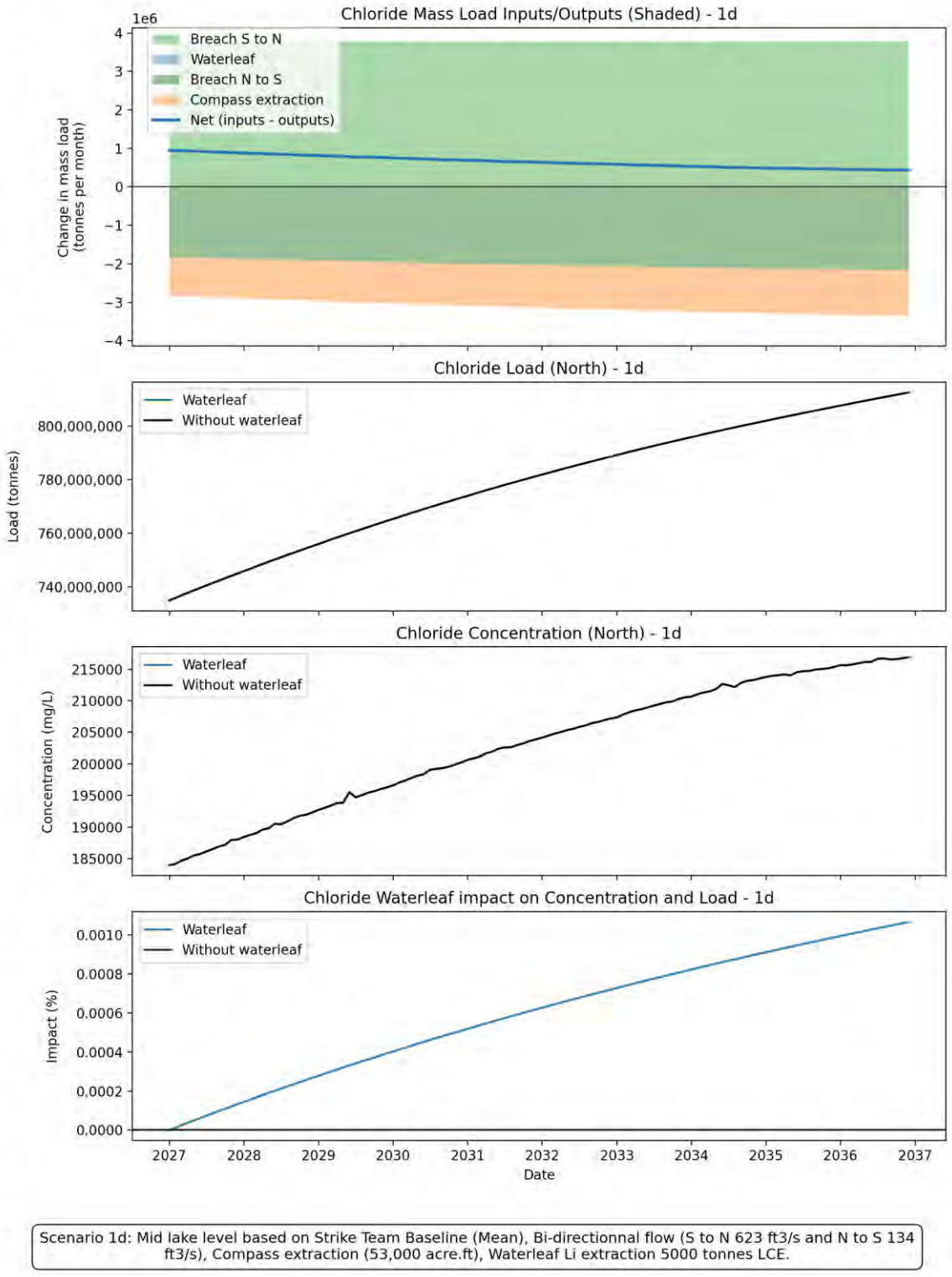


Figure 63: monthly mass balance chloride 1d

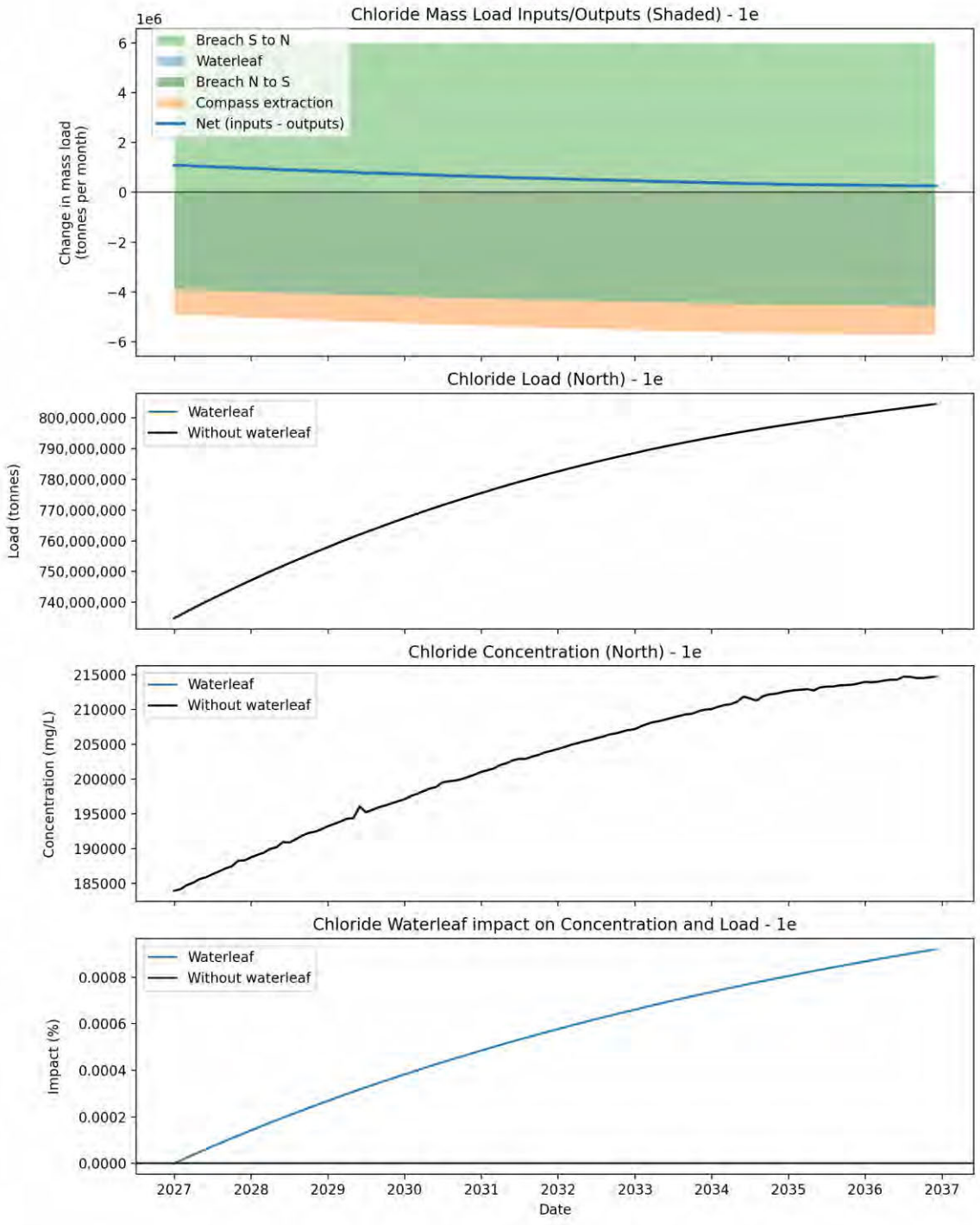


Figure 64: monthly mass balance chloride 1e

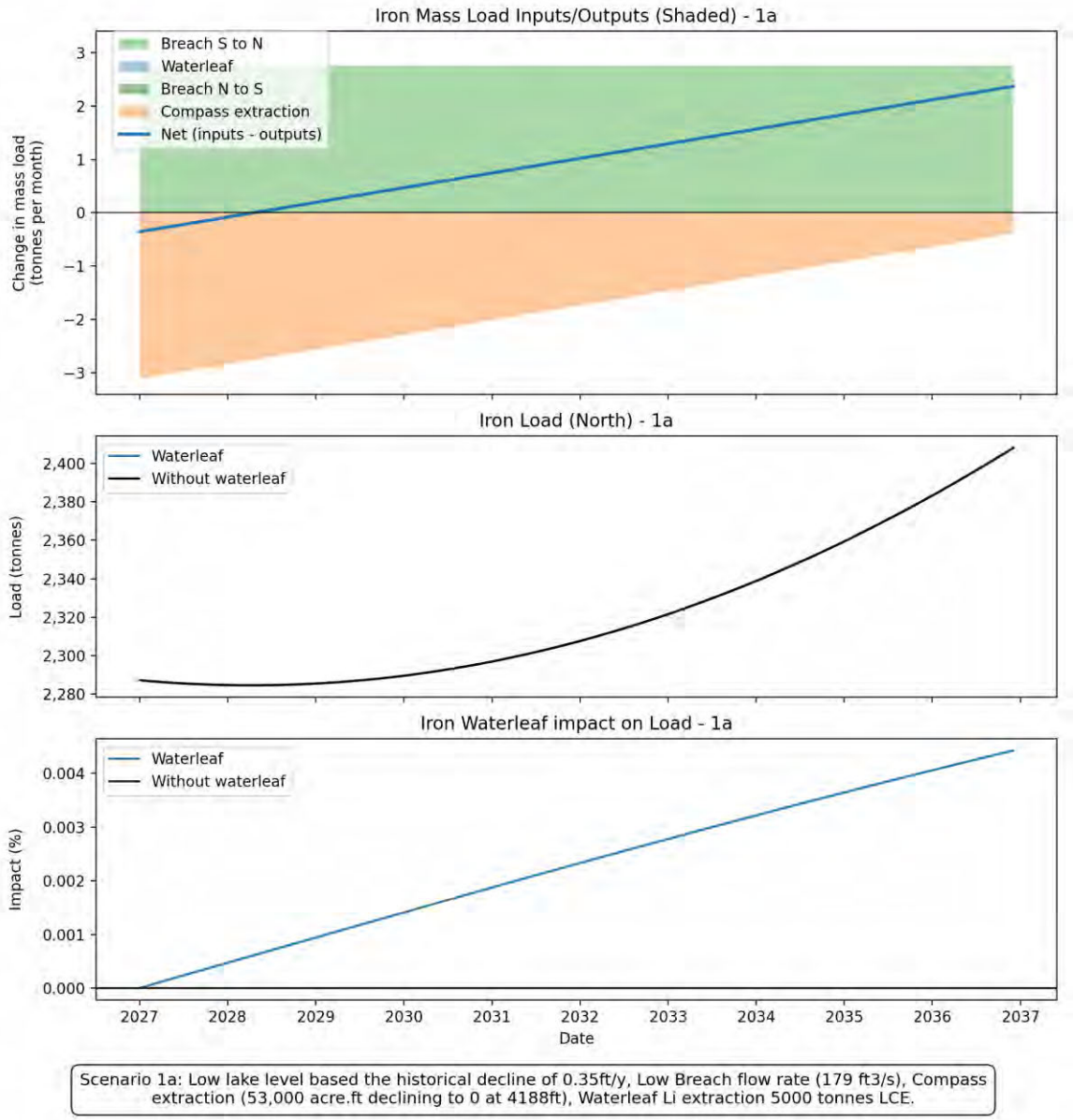


Figure 65: monthly mass balance iron 1a

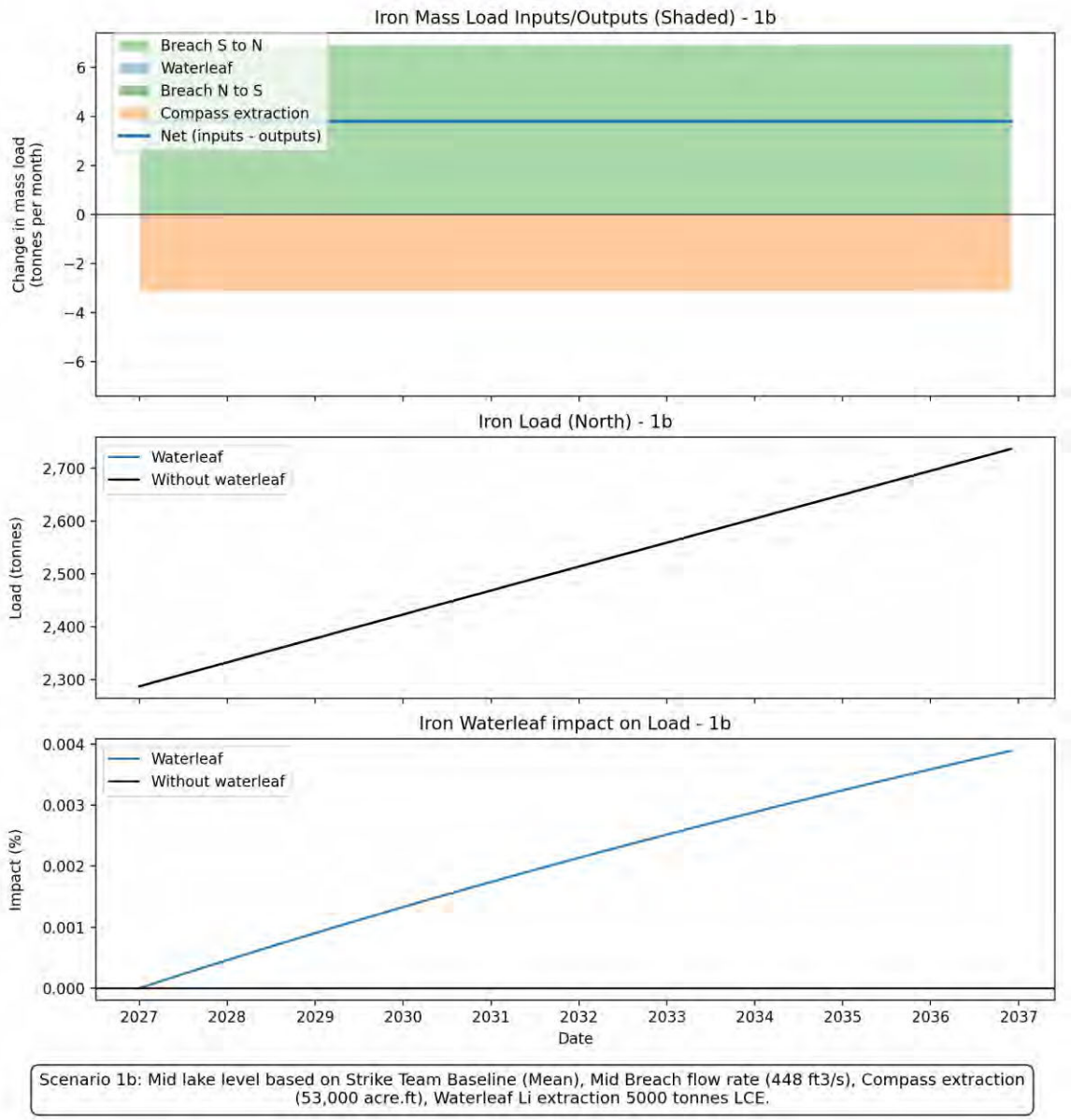


Figure 66: monthly mass balance iron 1b

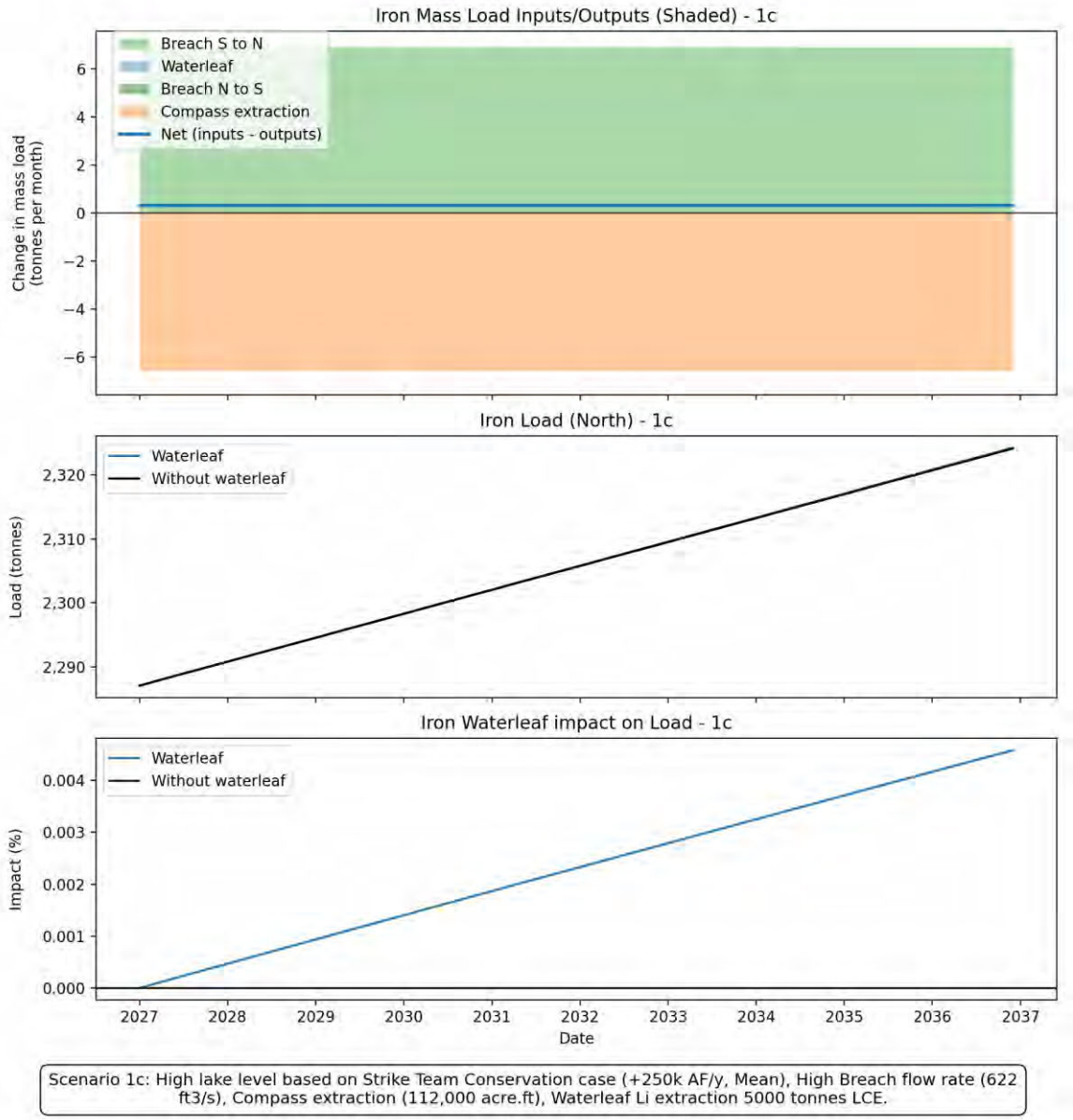


Figure 67: monthly mass balance iron 1c

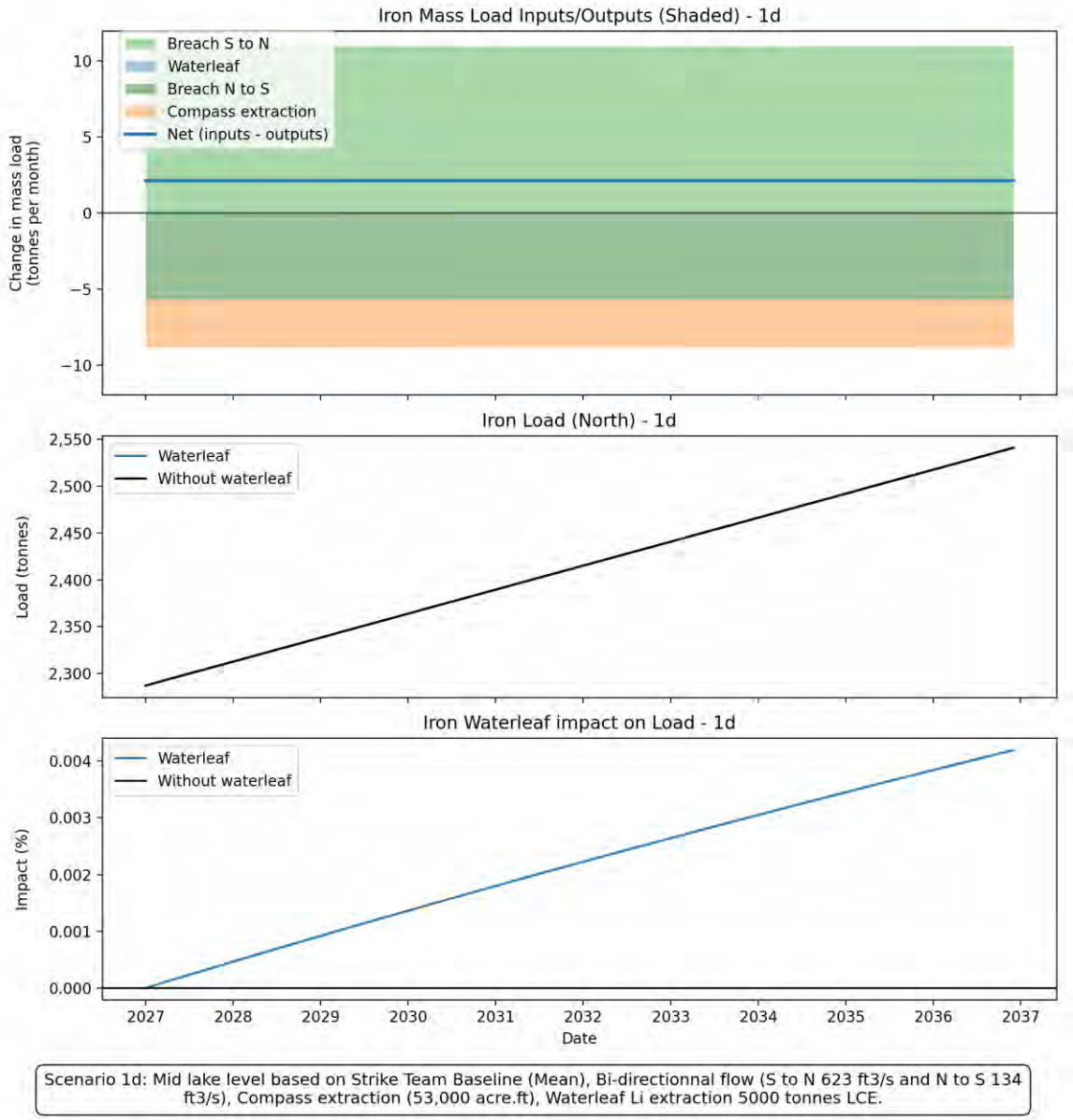


Figure 68: monthly mass balance iron 1d

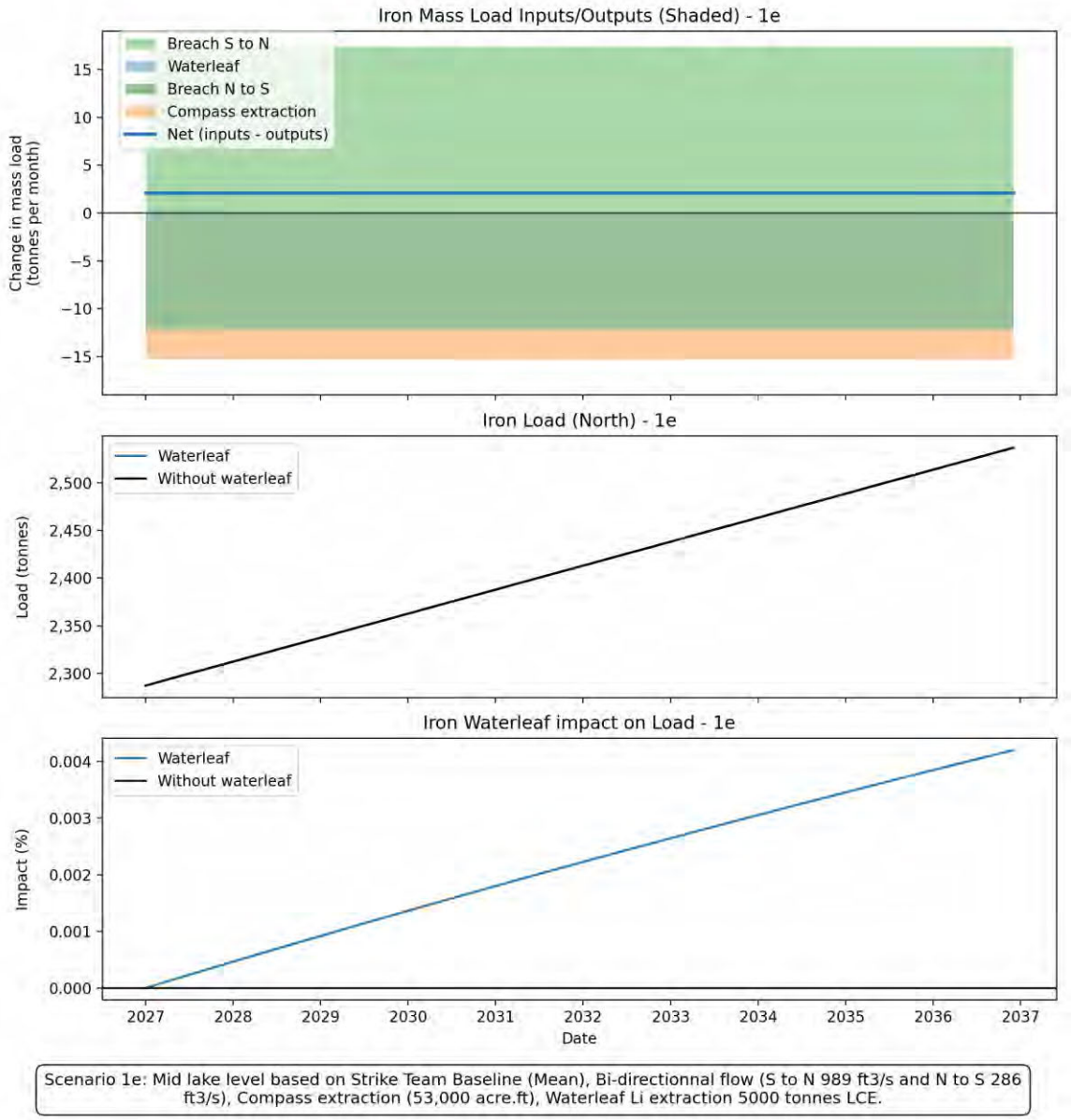


Figure 69: monthly mass balance iron 1e

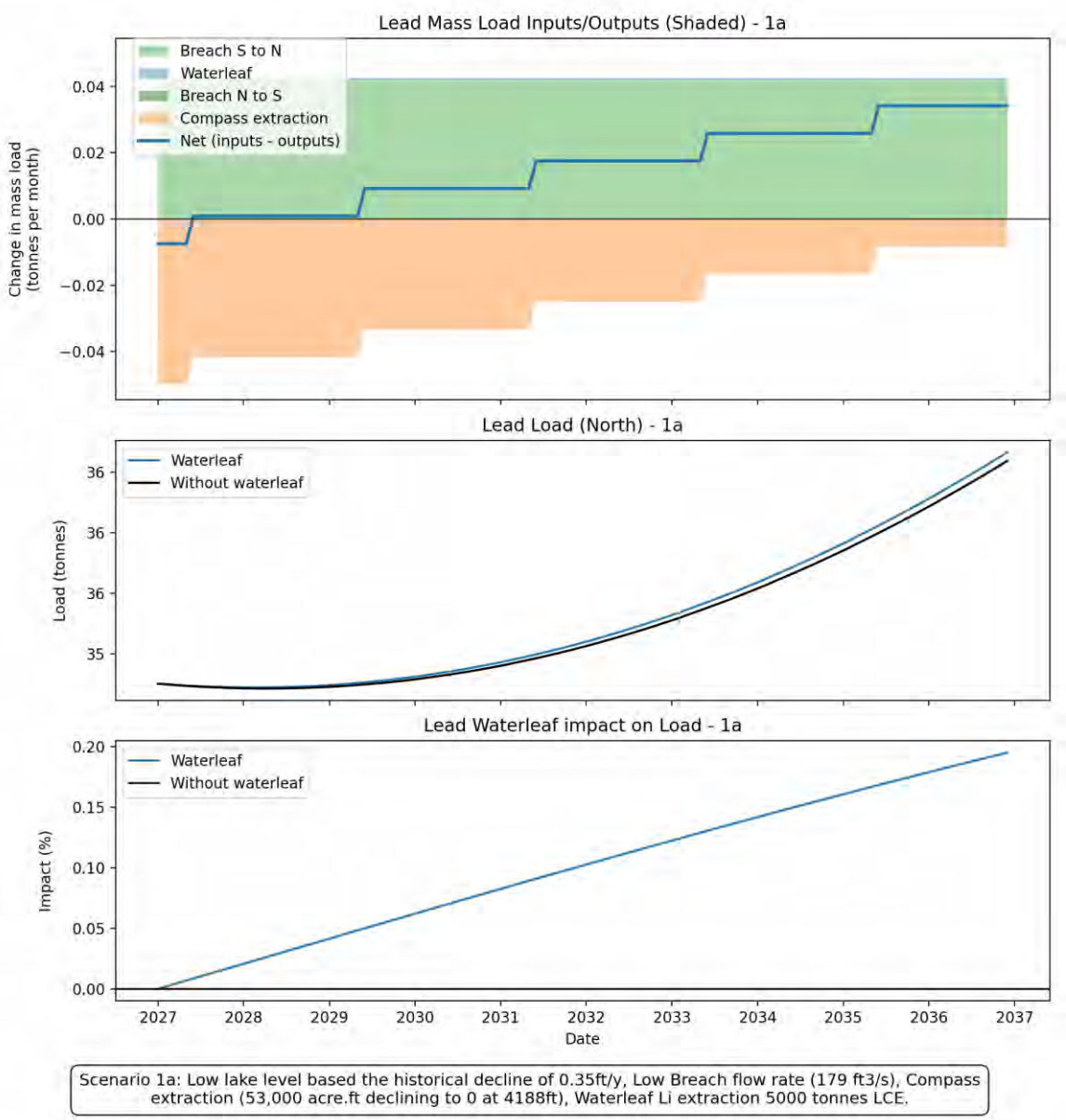


Figure 70: monthly mass balance lead 1a

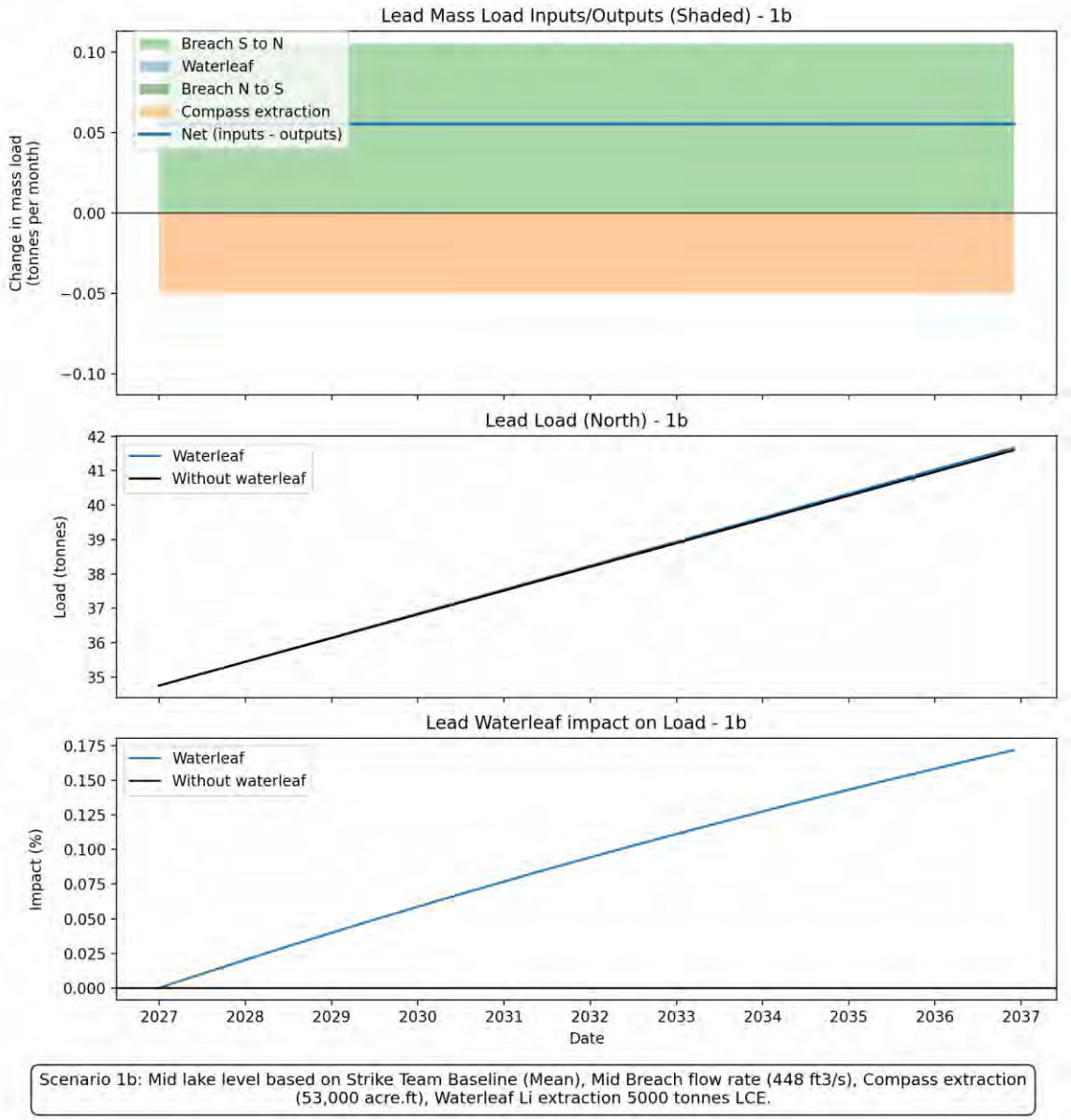


Figure 71: monthly mass balance lead 1b

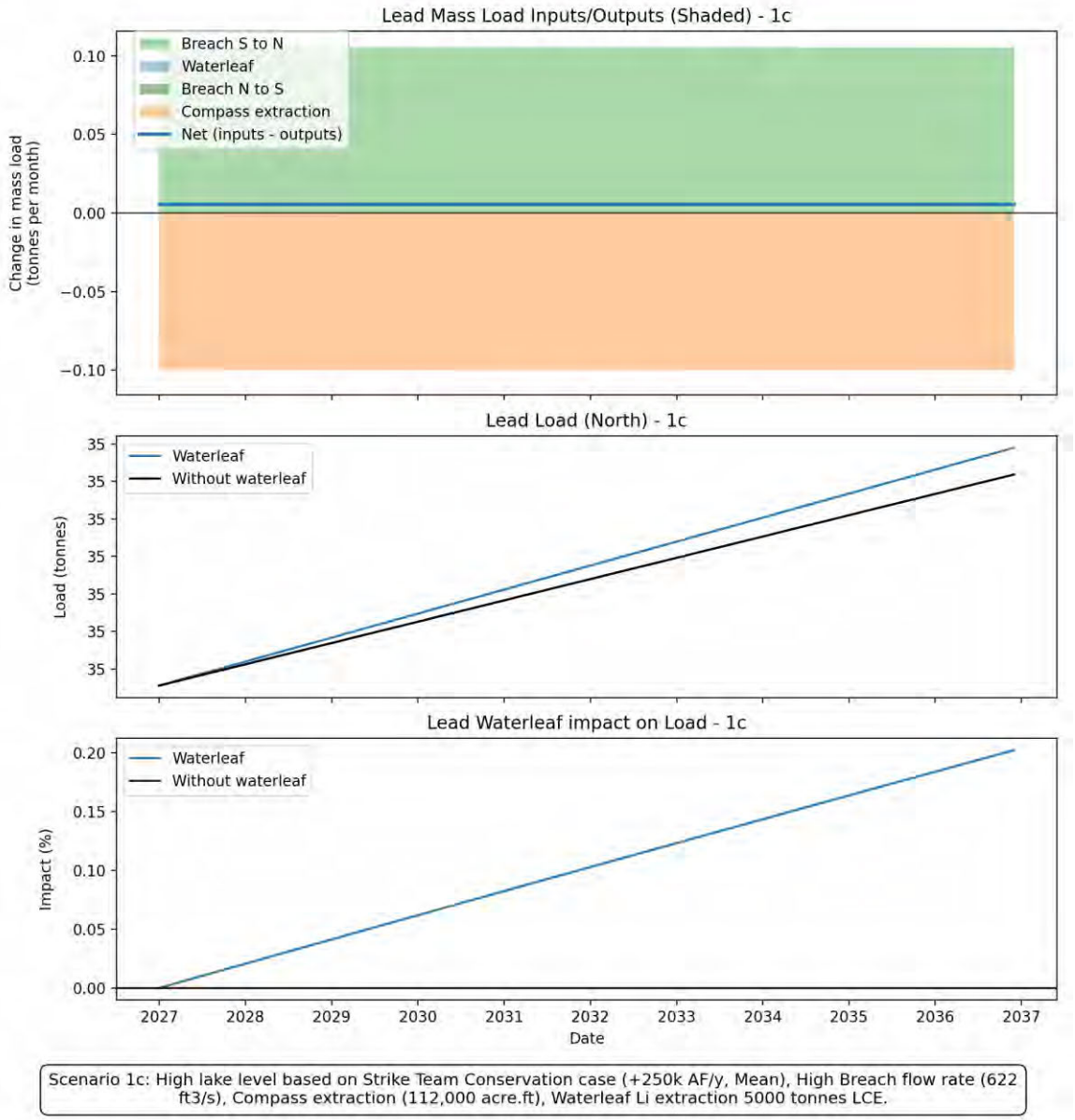


Figure 72: monthly mass balance lead 1c

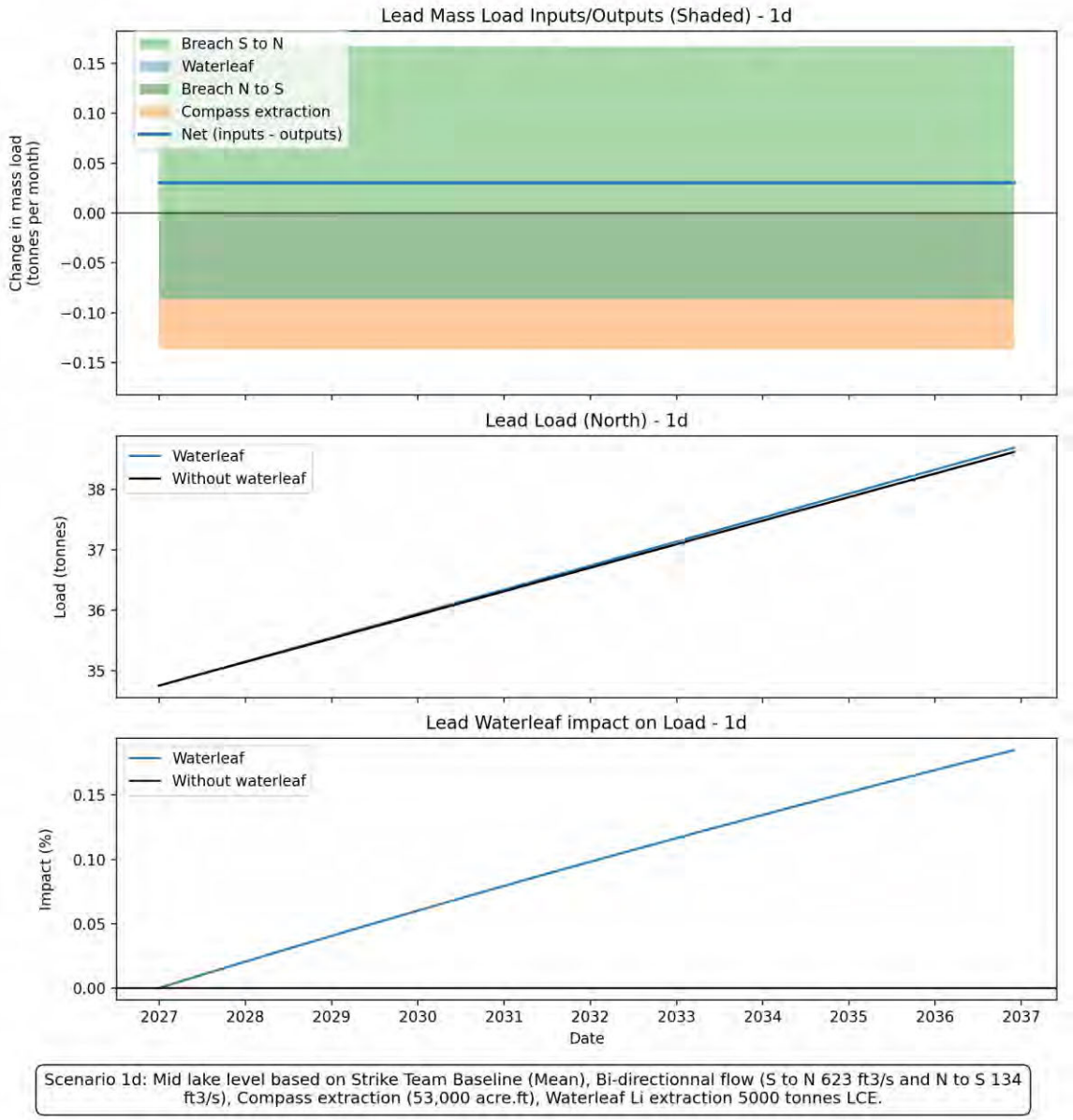


Figure 73: monthly mass balance lead 1d

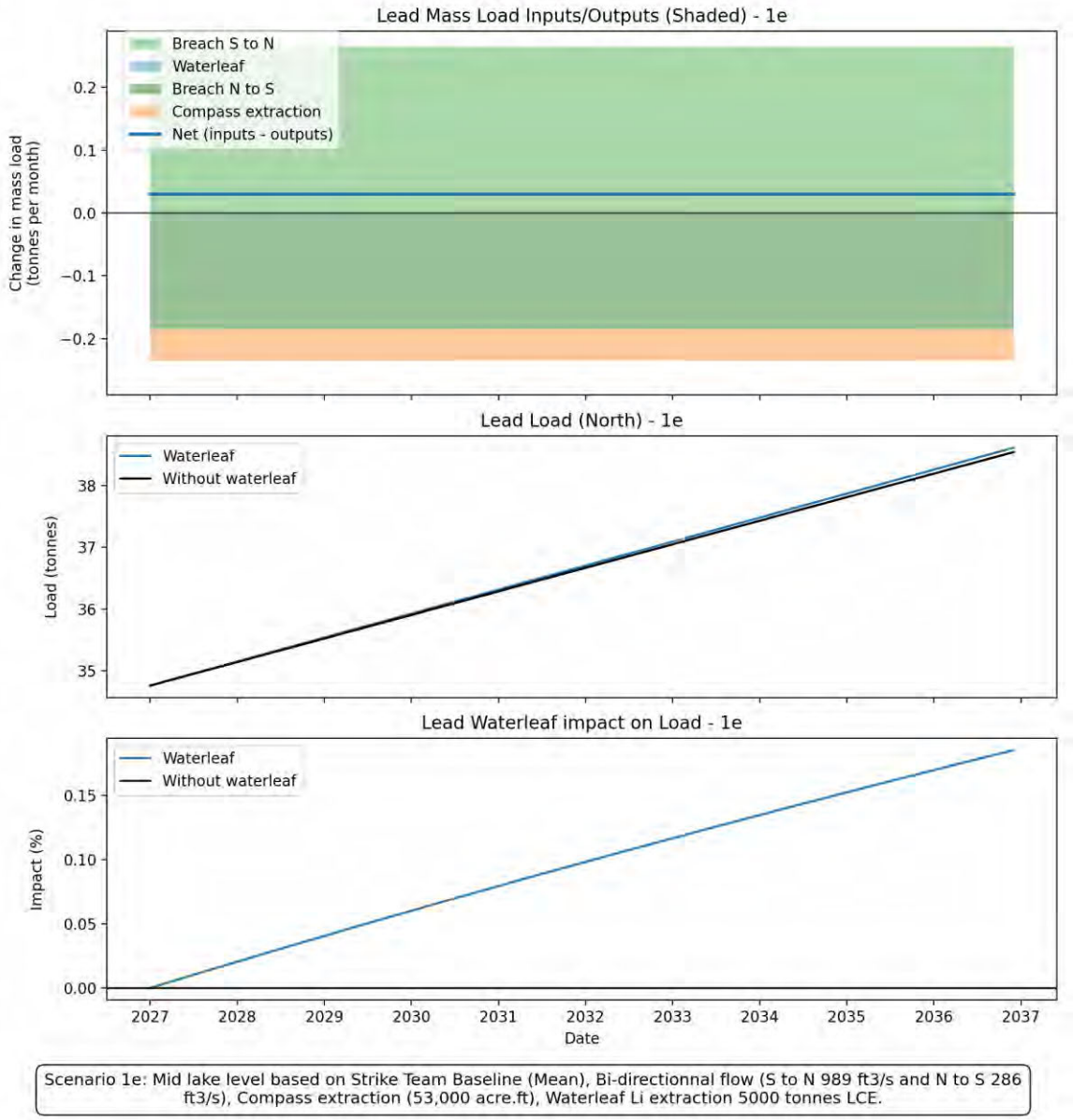


Figure 74: monthly mass balance lead 1e

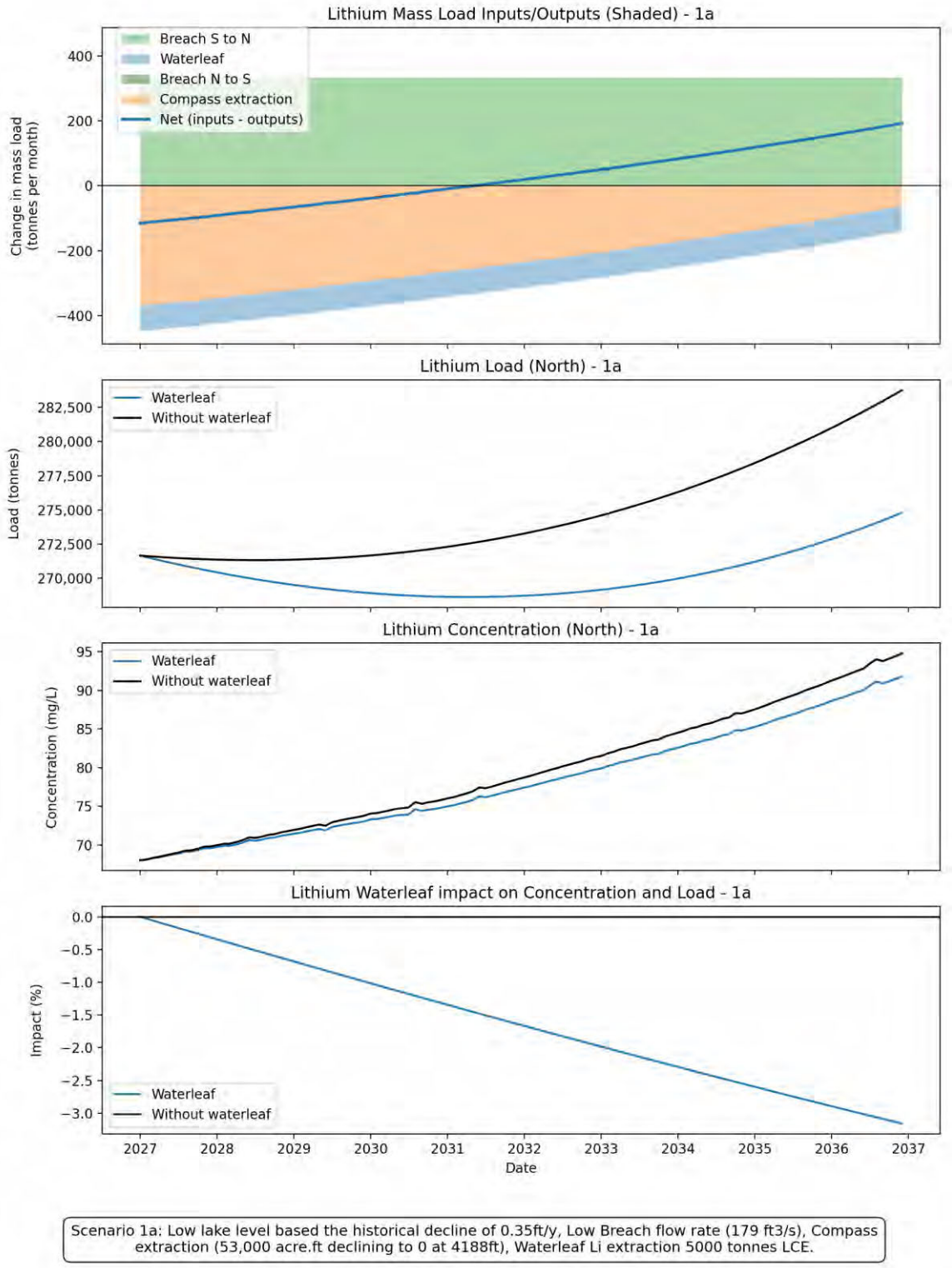


Figure 75: monthly mass balance lithium 1a

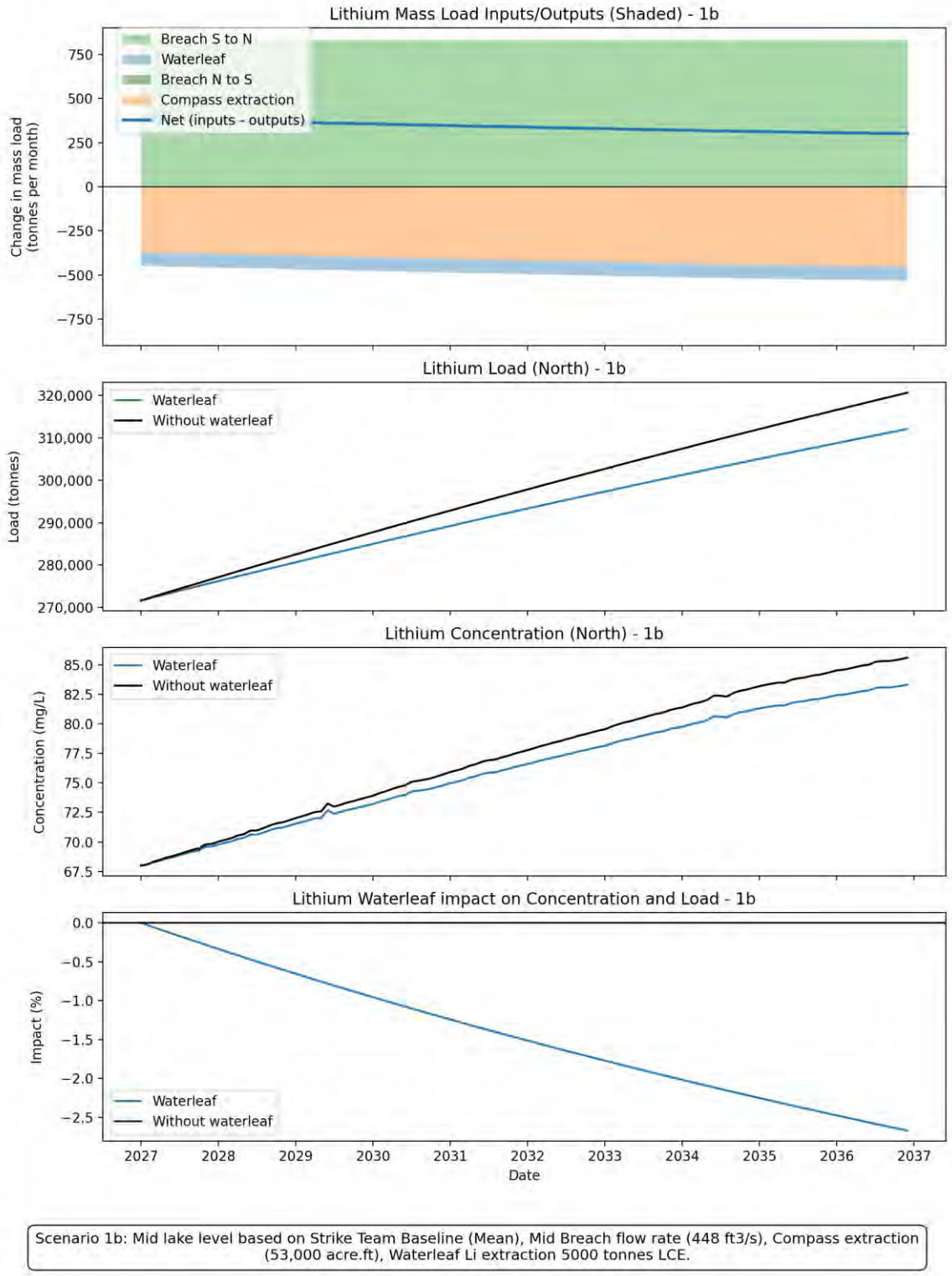


Figure 76: monthly mass balance lithium 1b

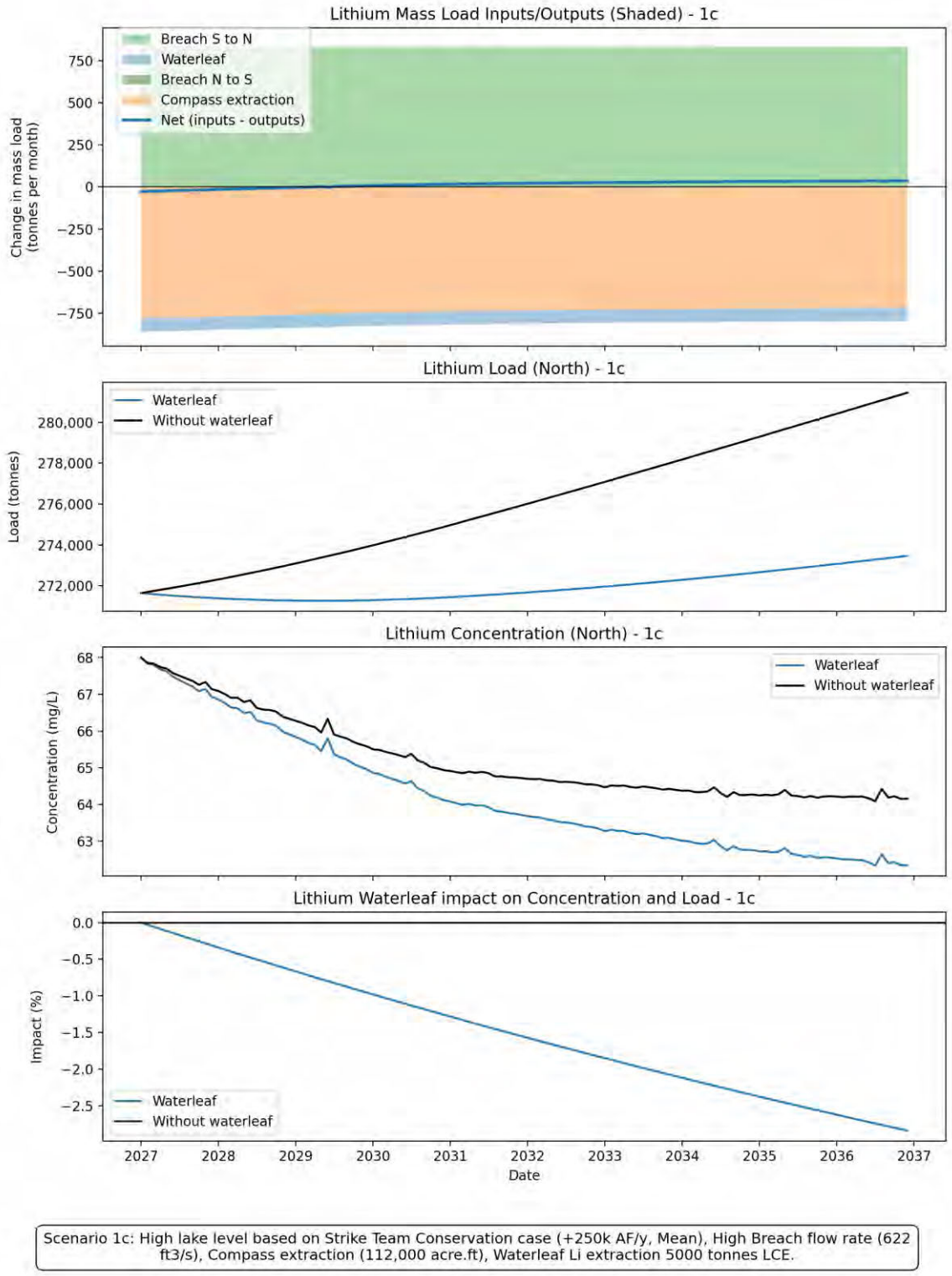


Figure 77: monthly mass balance lithium 1c

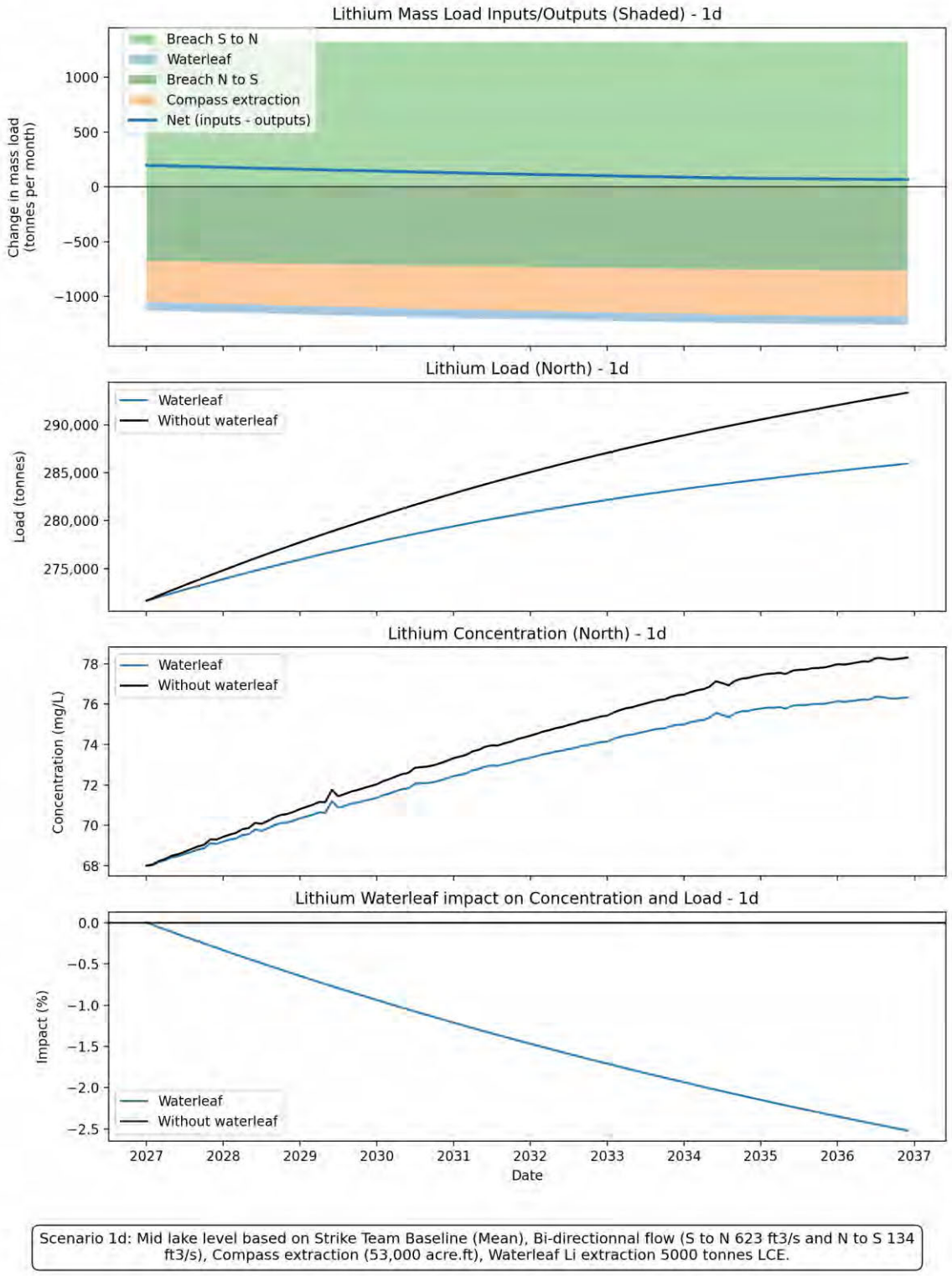


Figure 78: monthly mass balance lithium 1d

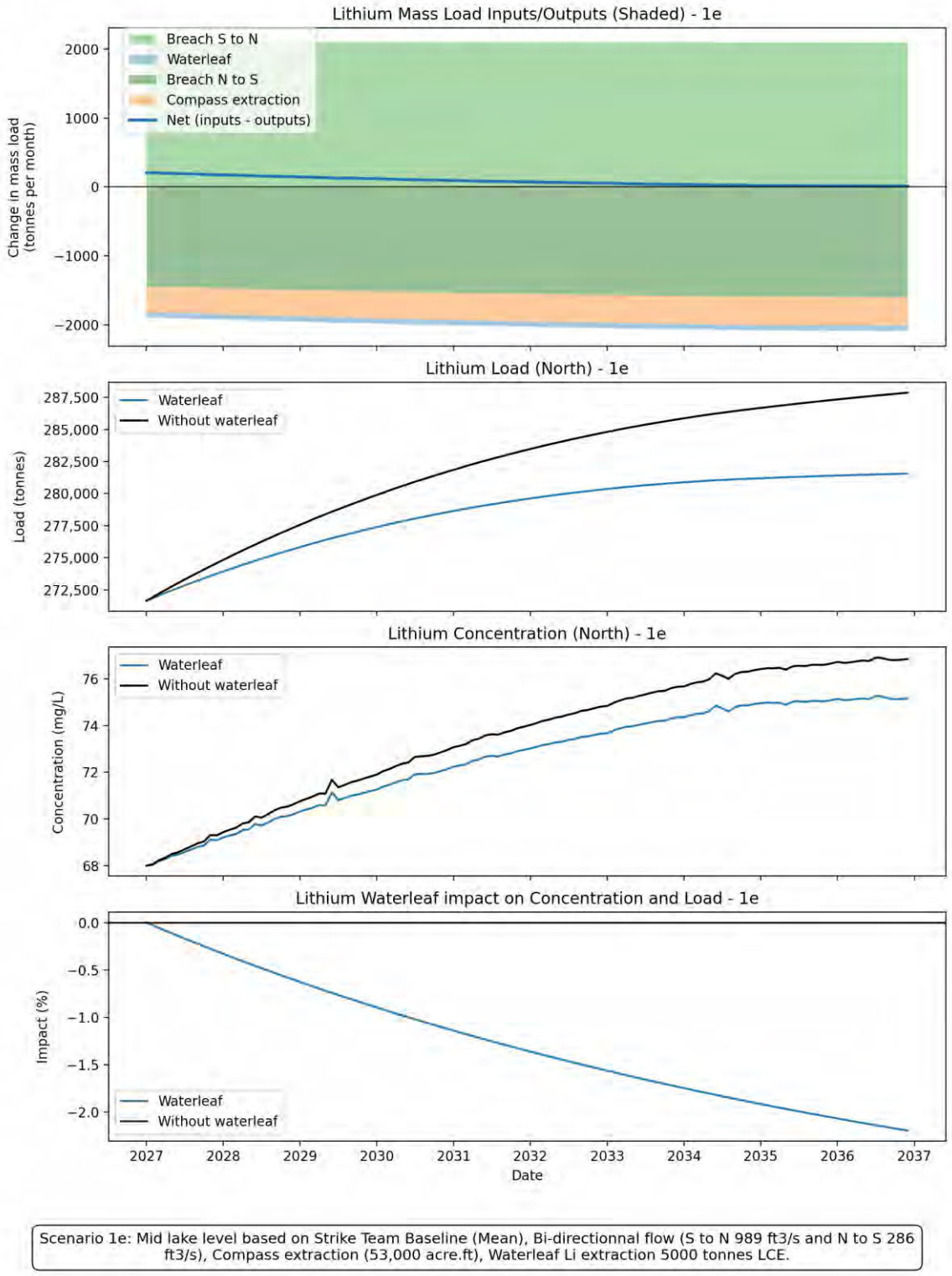


Figure 79: monthly mass balance lithium 1e

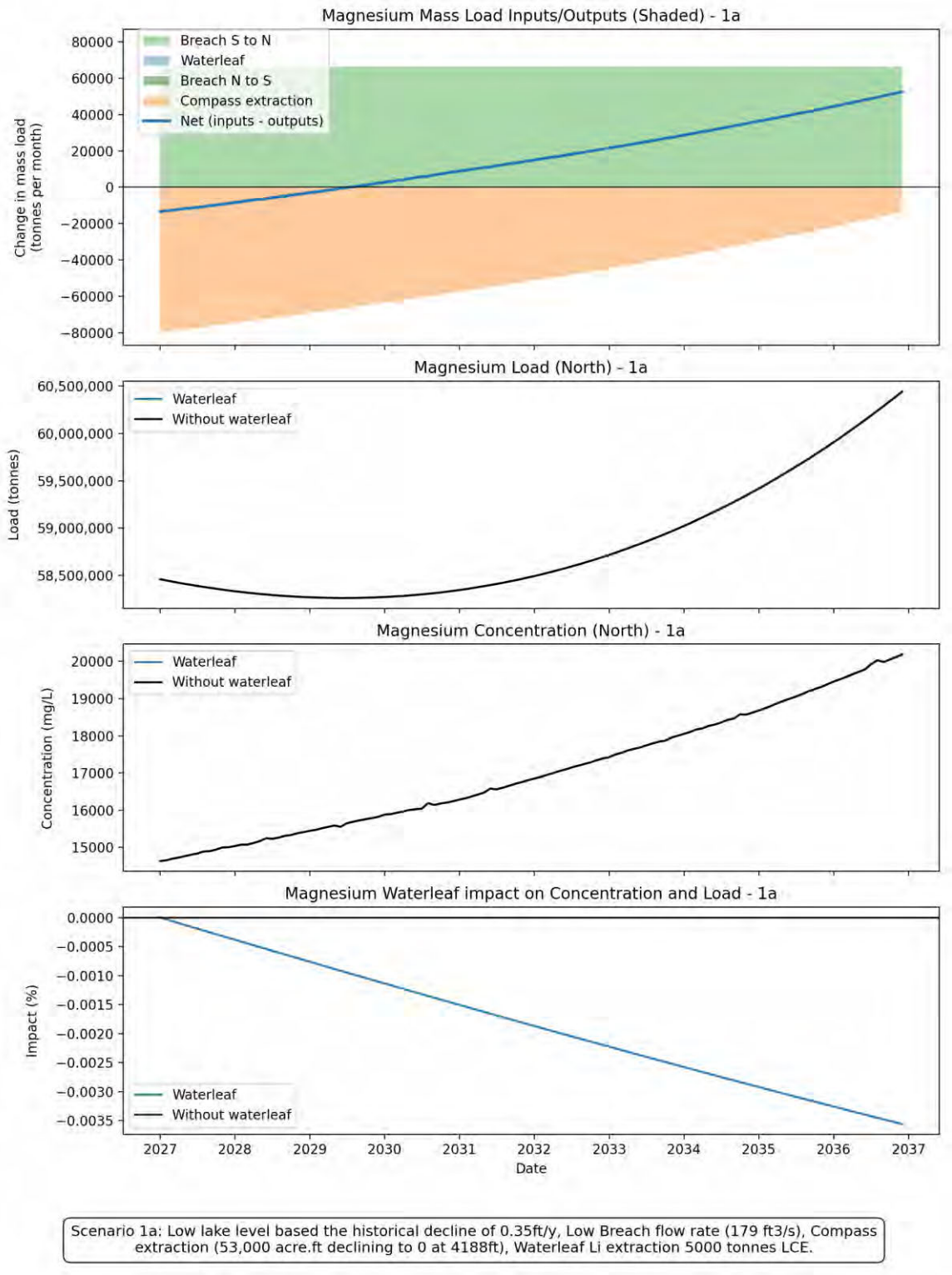


Figure 80: monthly mass balance magnesium 1a

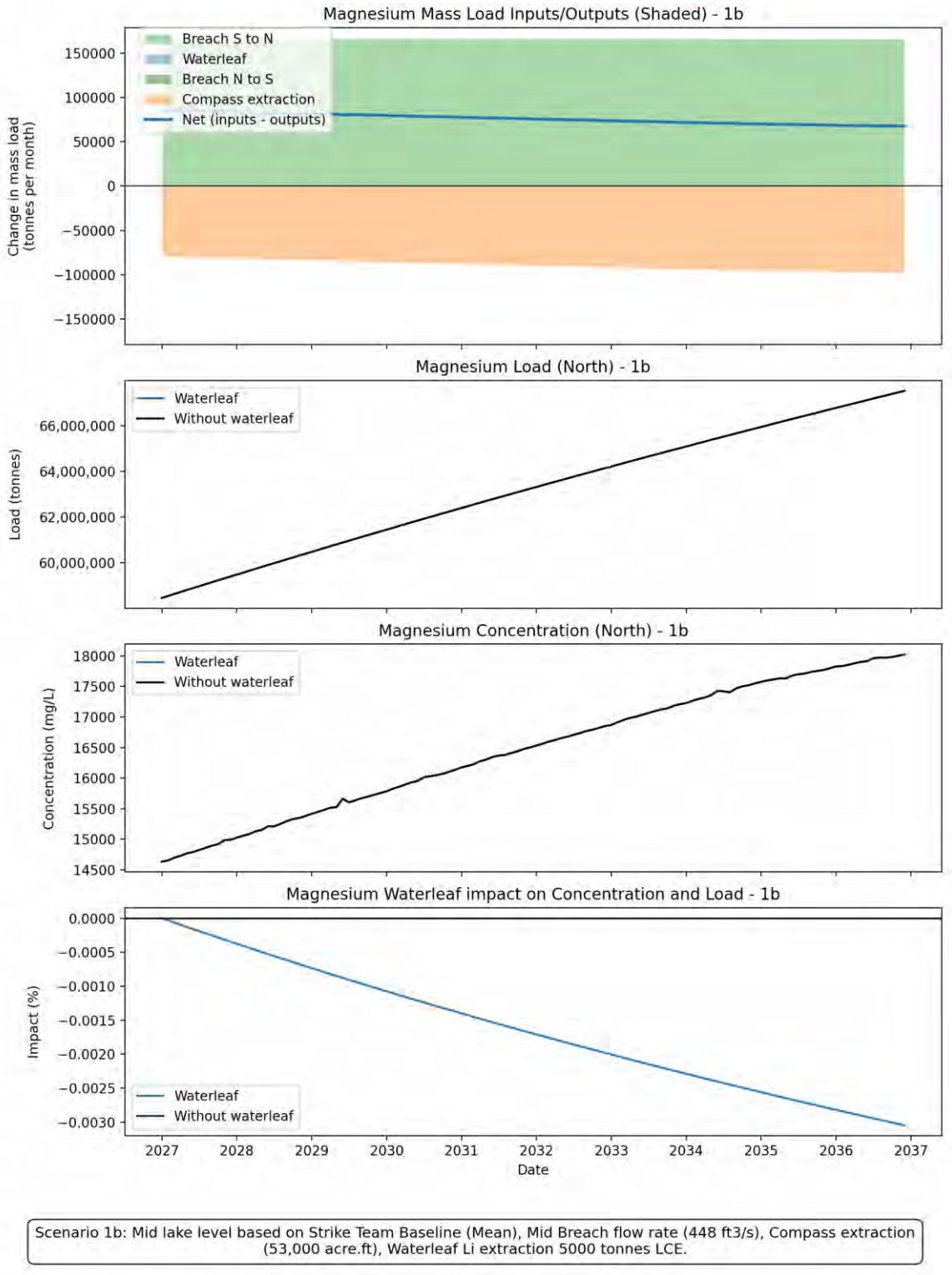


Figure 81: monthly mass balance magnesium 1b

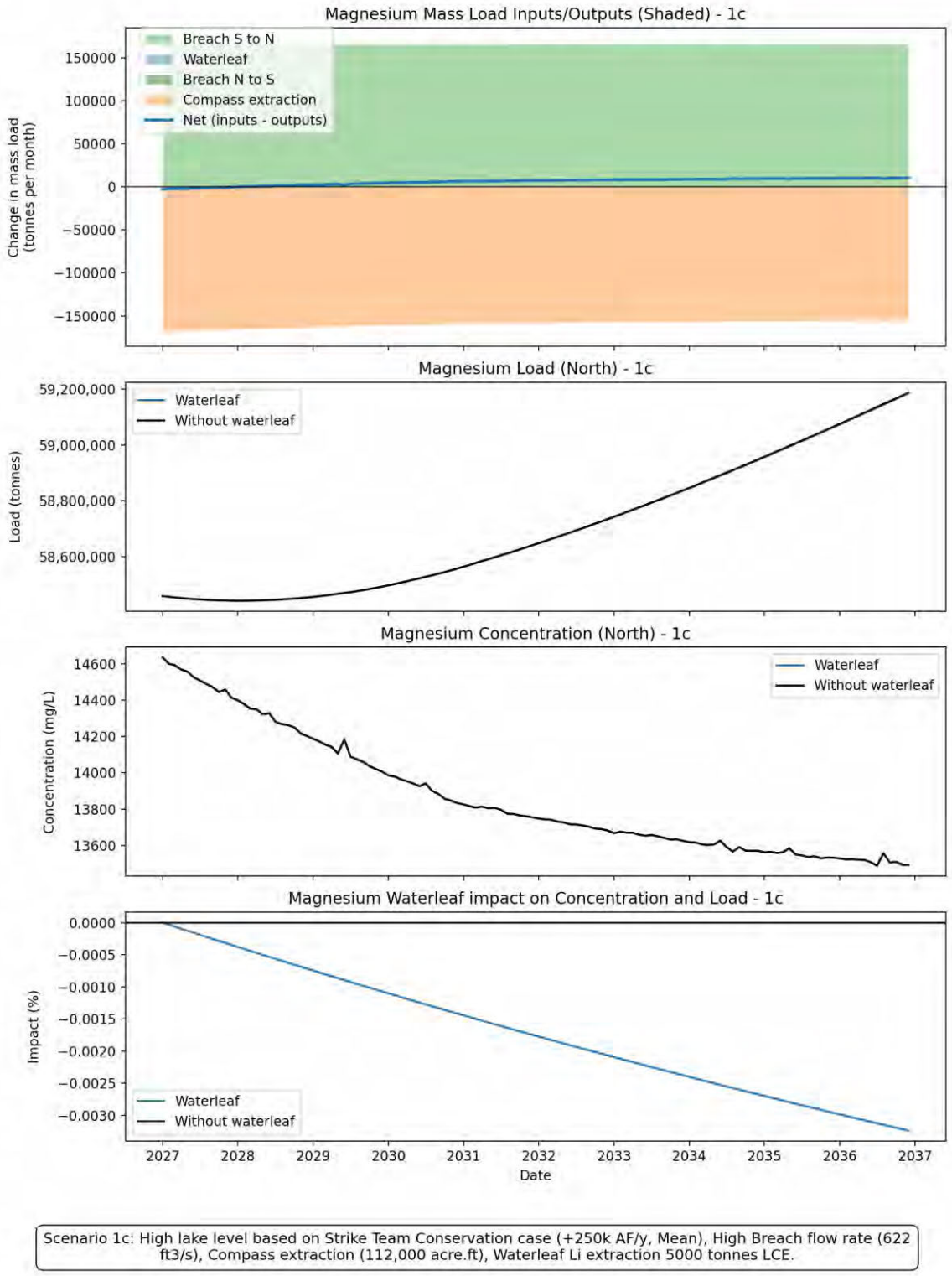


Figure 82: monthly mass balance magnesium 1c

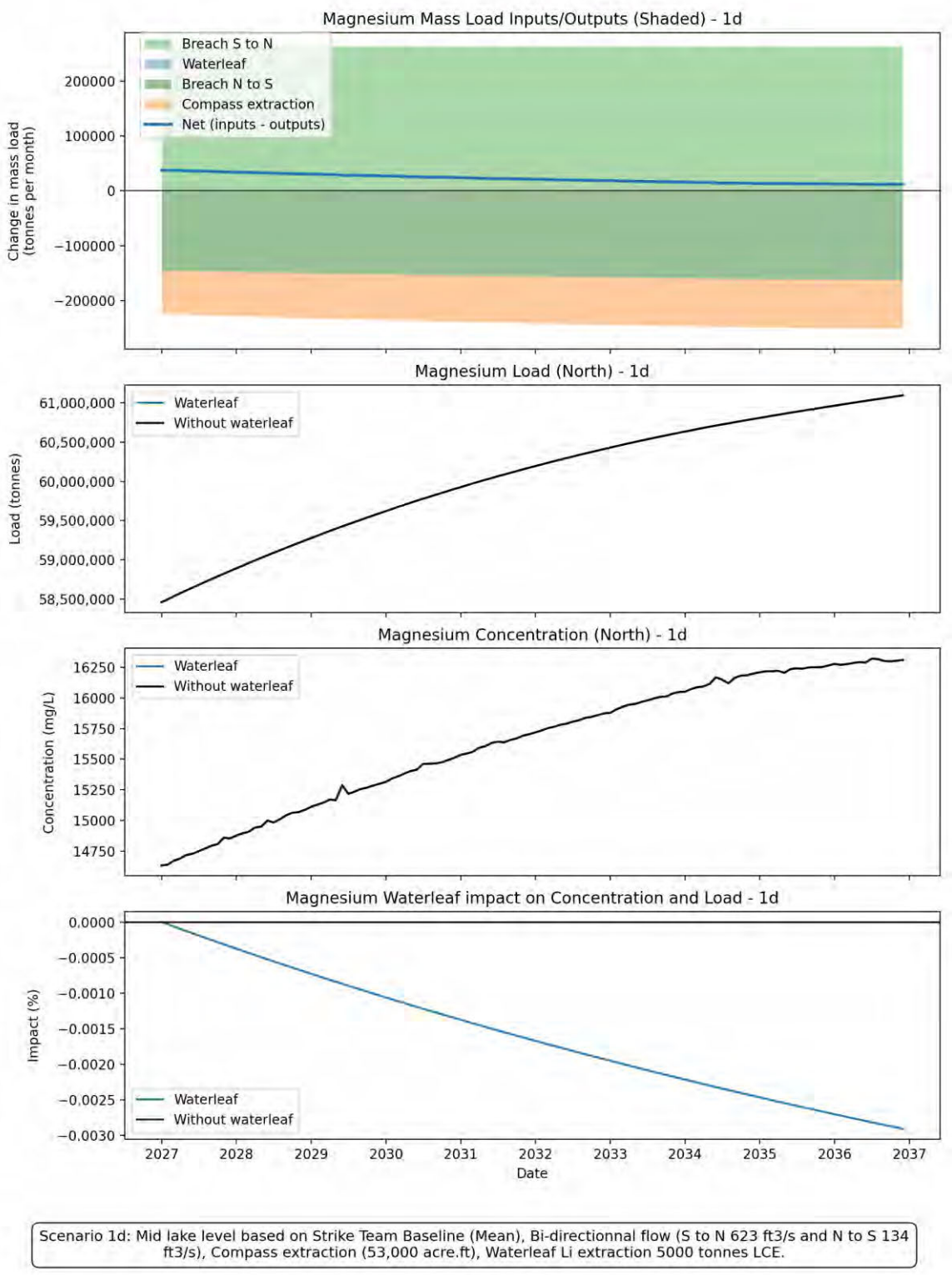


Figure 83: monthly mass balance magnesium 1d

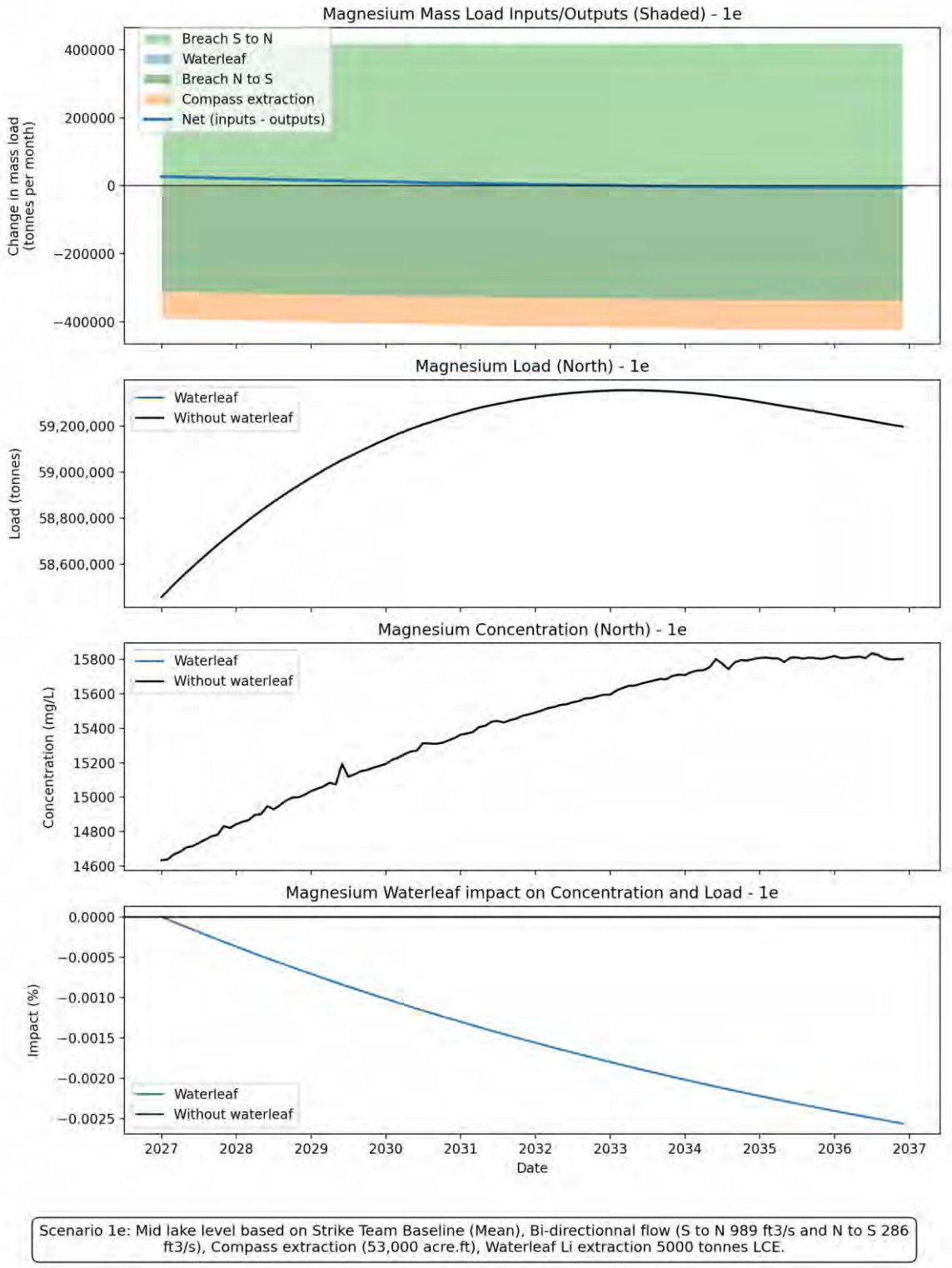


Figure 84: monthly mass balance magnesium 1e

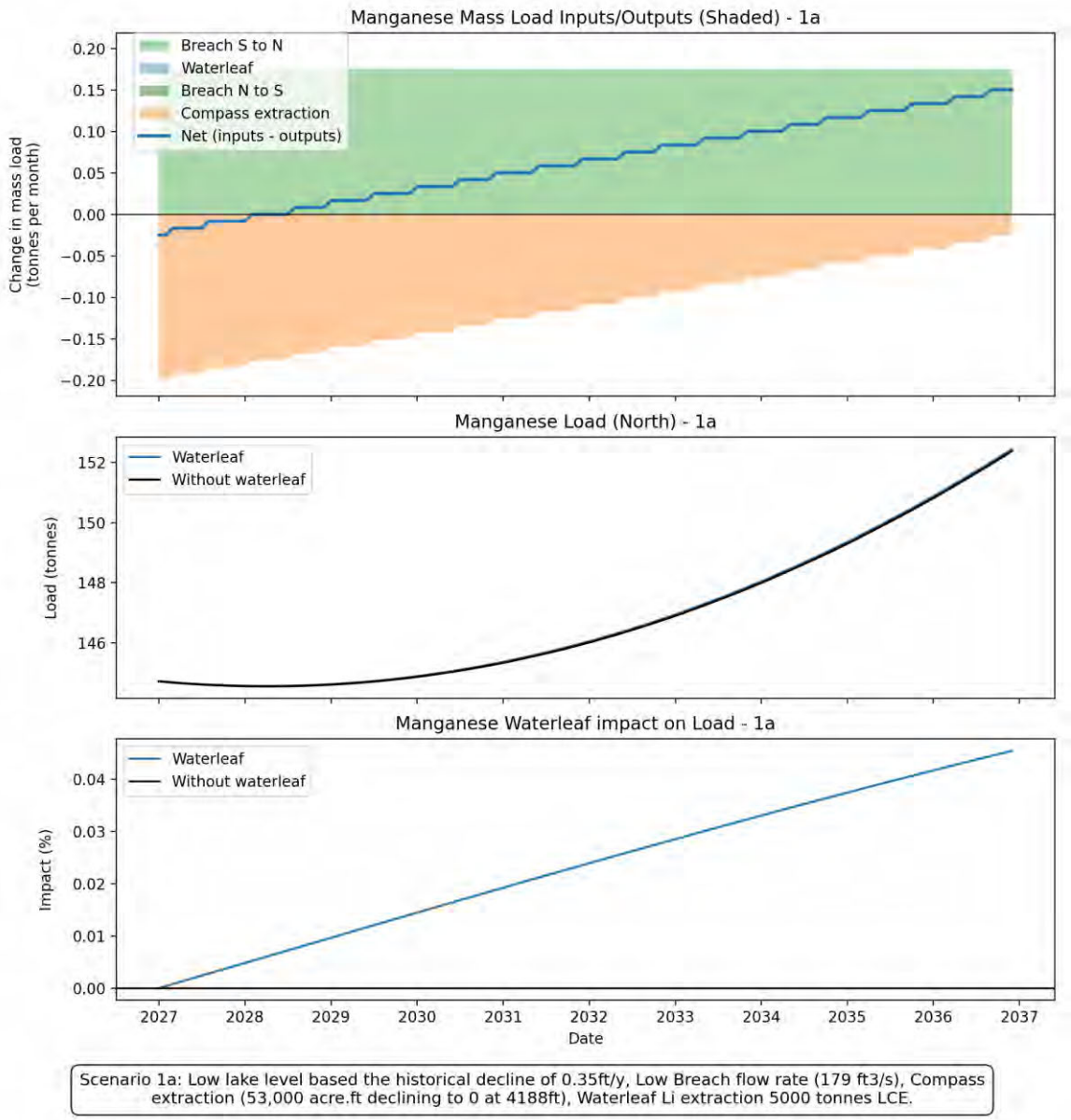


Figure 85: monthly mass balance manganese 1a

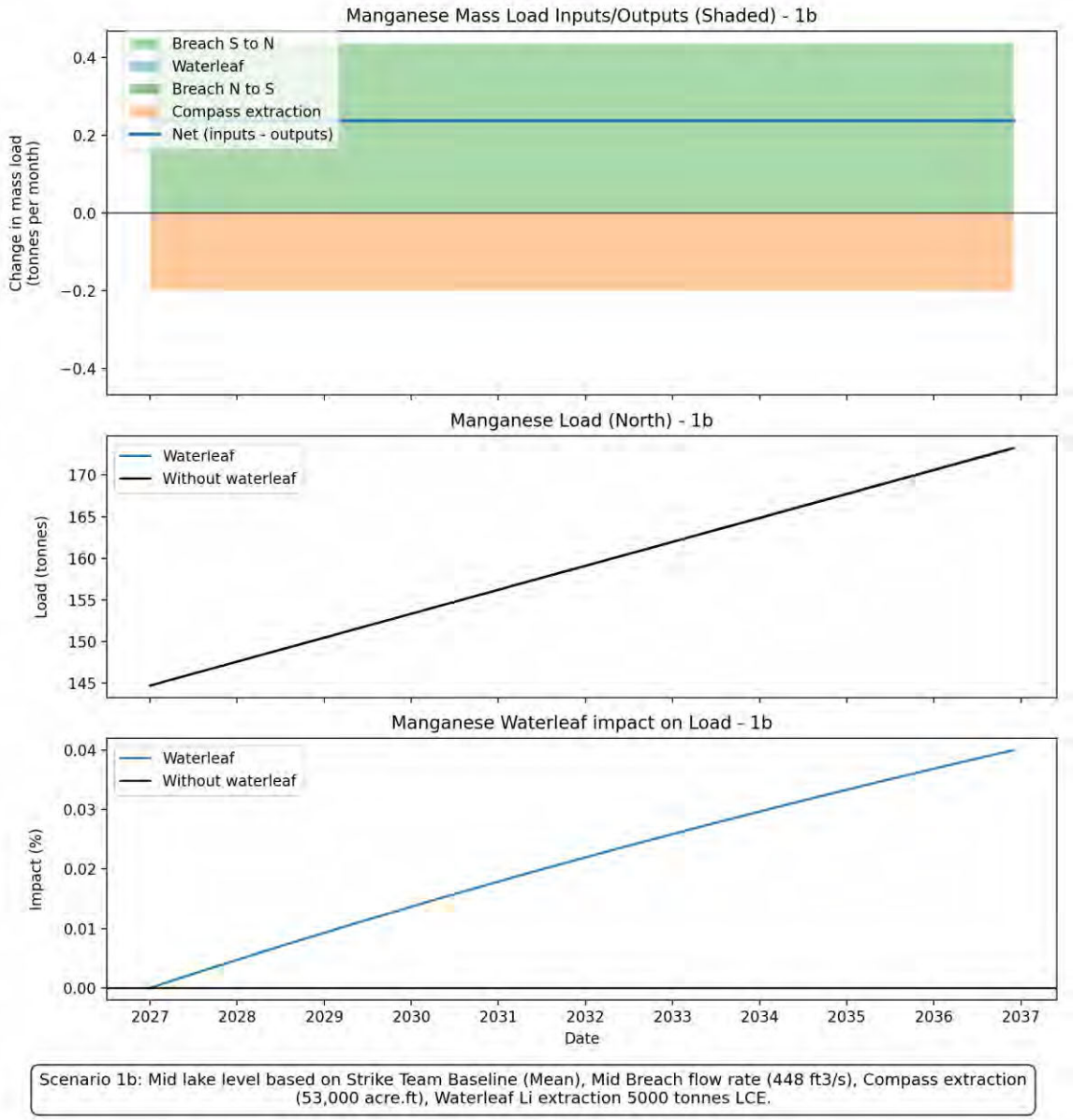


Figure 86: monthly mass balance manganese 1b

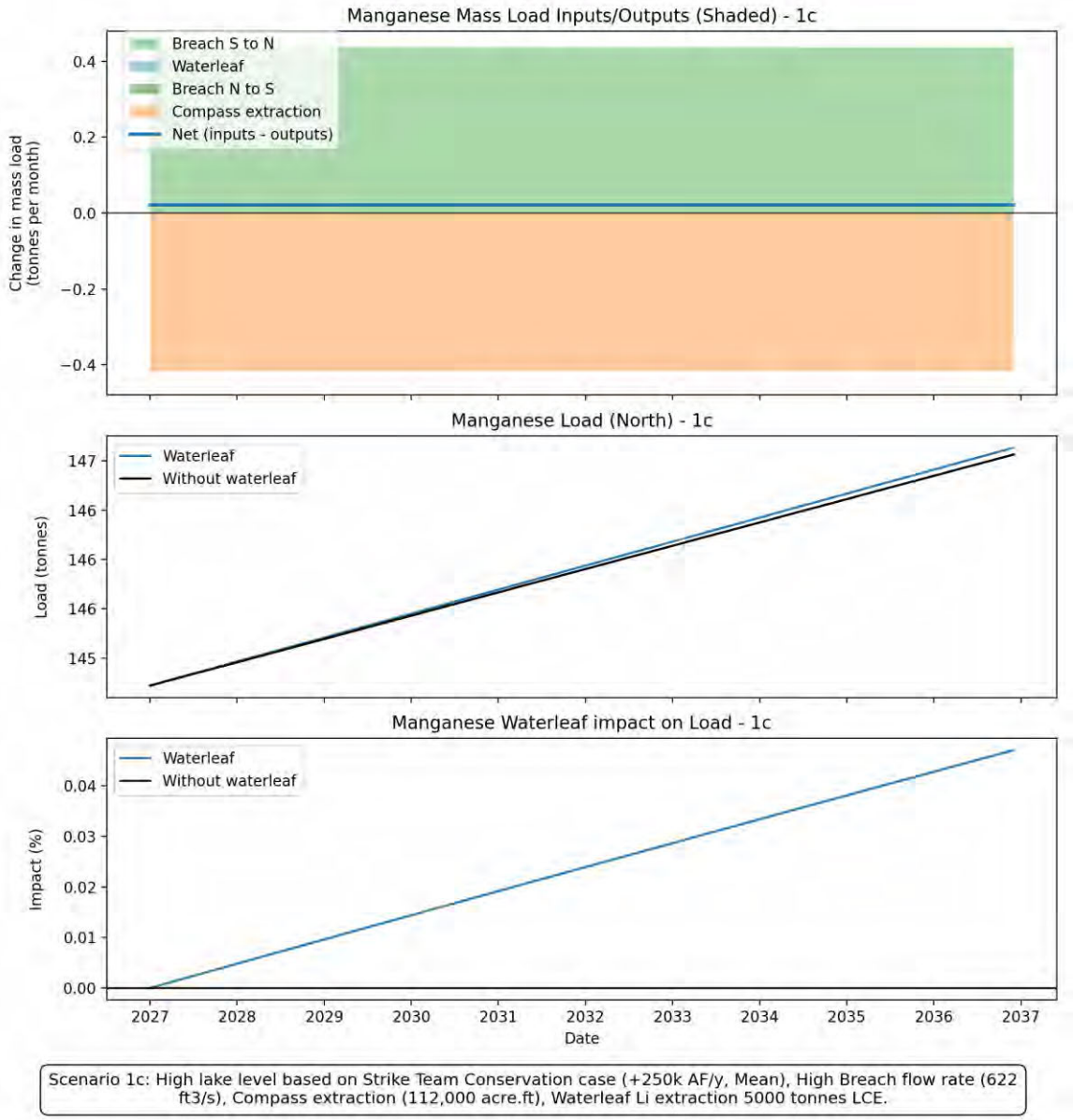


Figure 87: monthly mass balance manganese 1c

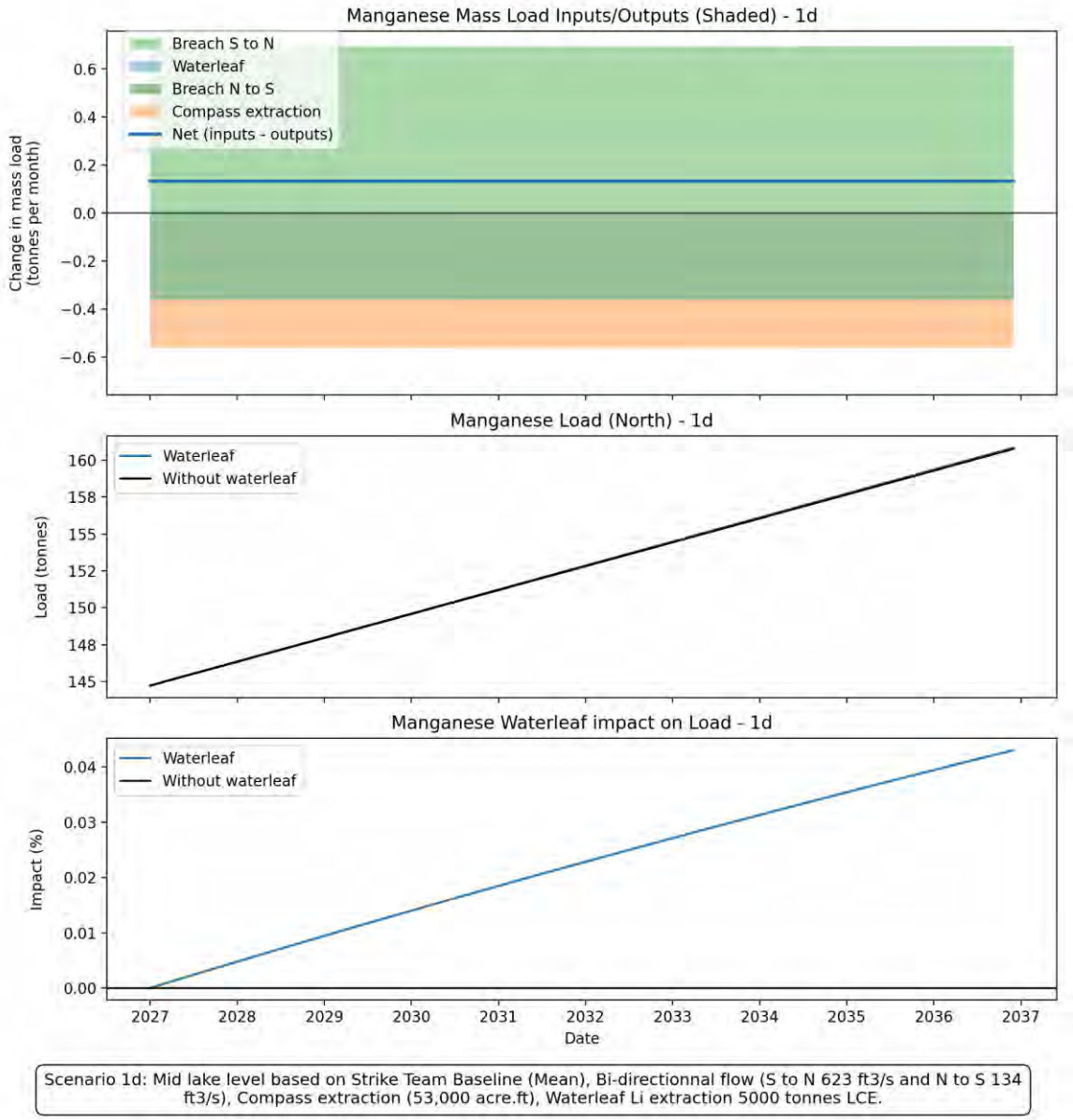


Figure 88: monthly mass balance manganese 1d

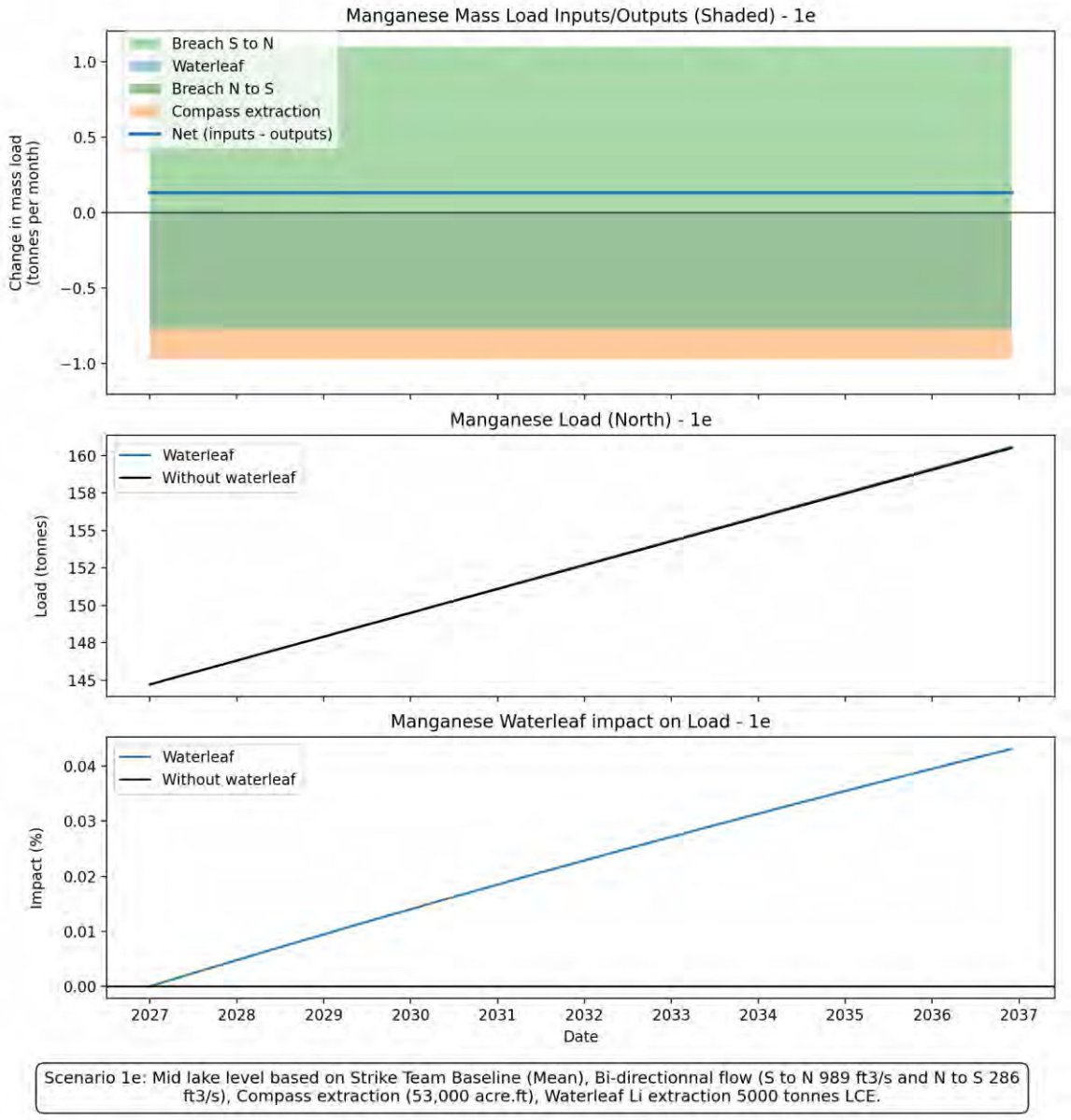


Figure 89: monthly mass balance manganese 1e

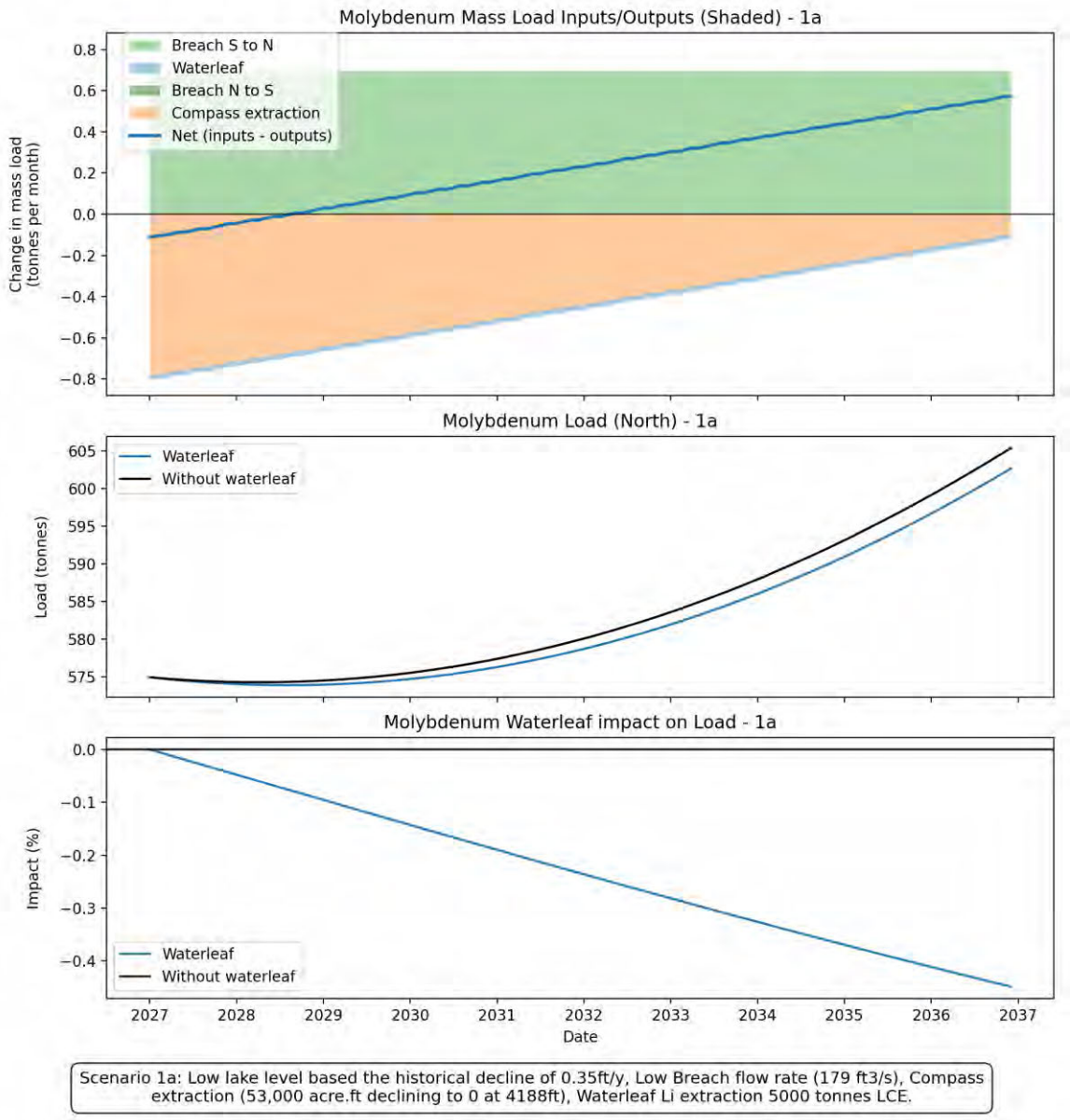


Figure 90: monthly mass balance molybdenum 1a

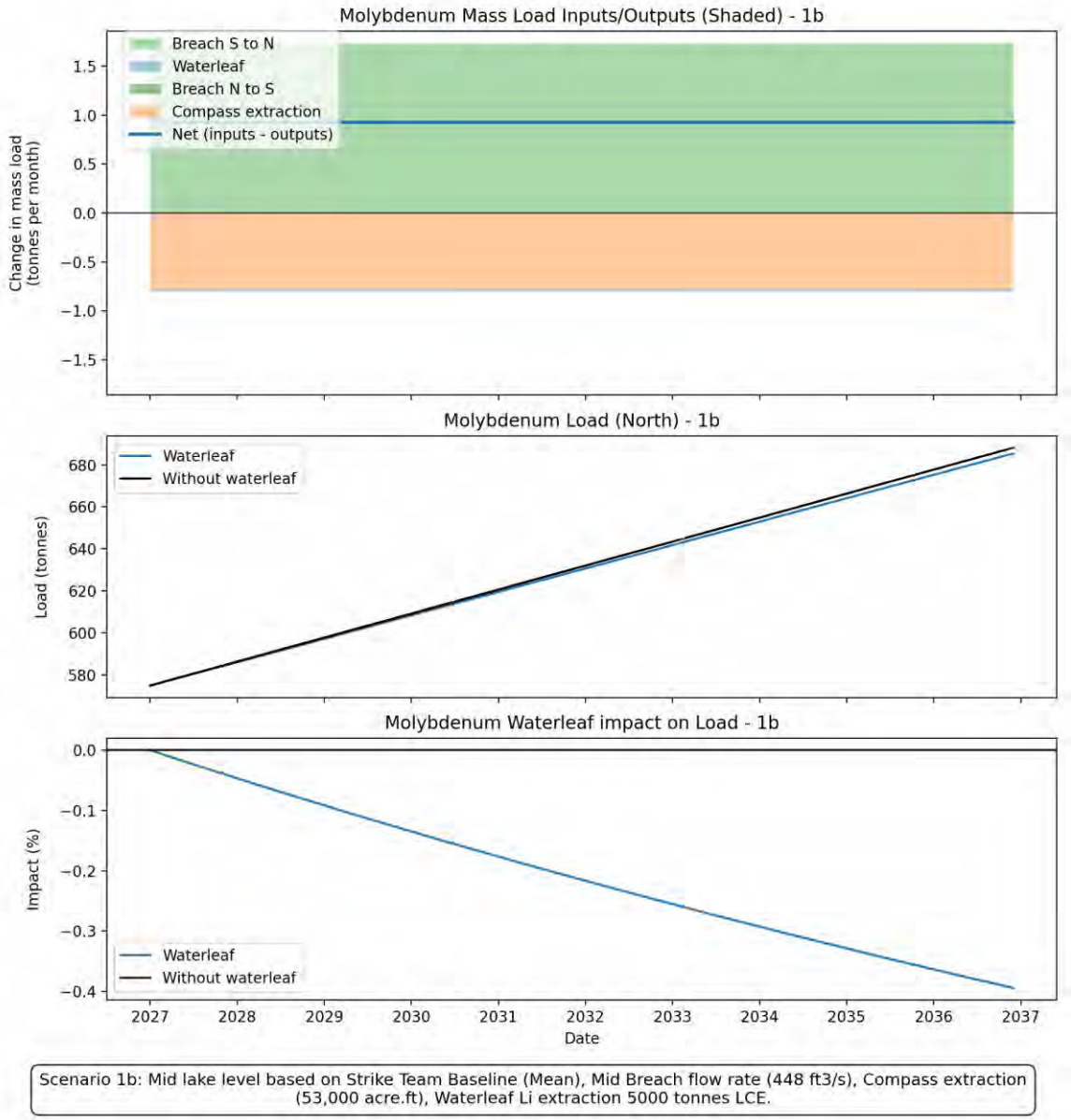


Figure 91: monthly mass balance molybdenum 1b

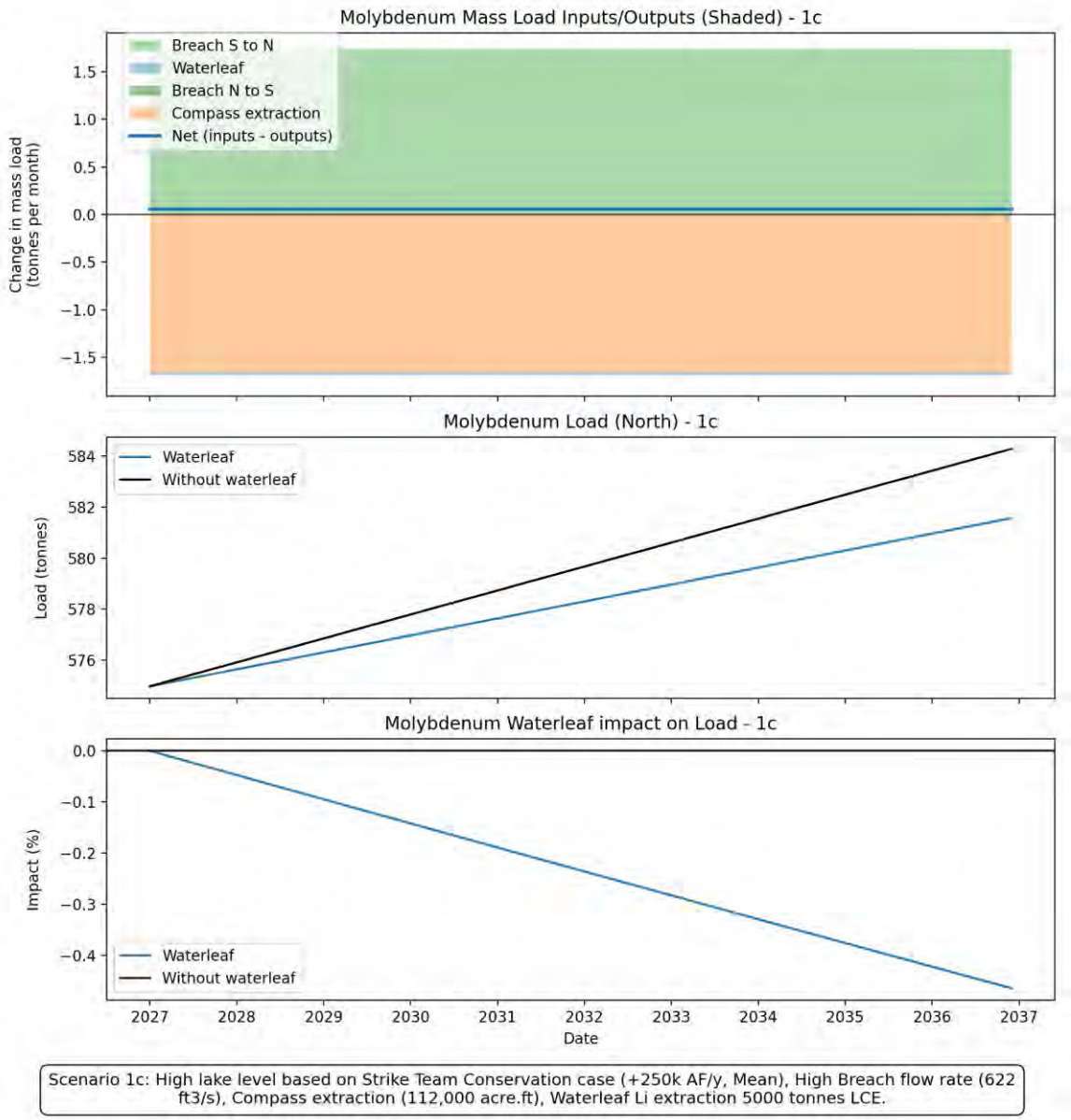


Figure 92: monthly mass balance molybdenum 1c

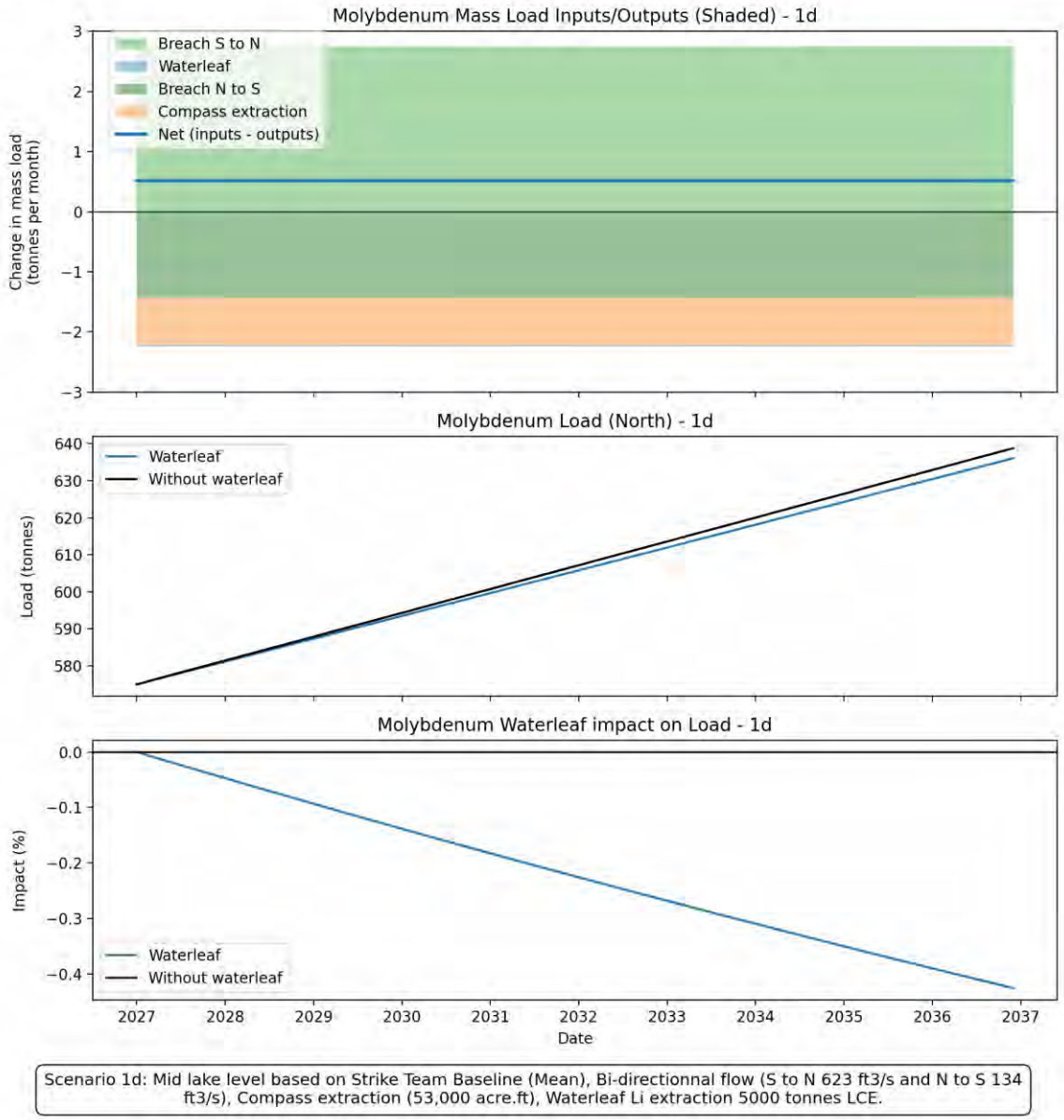


Figure 93: monthly mass balance molybdenum 1d

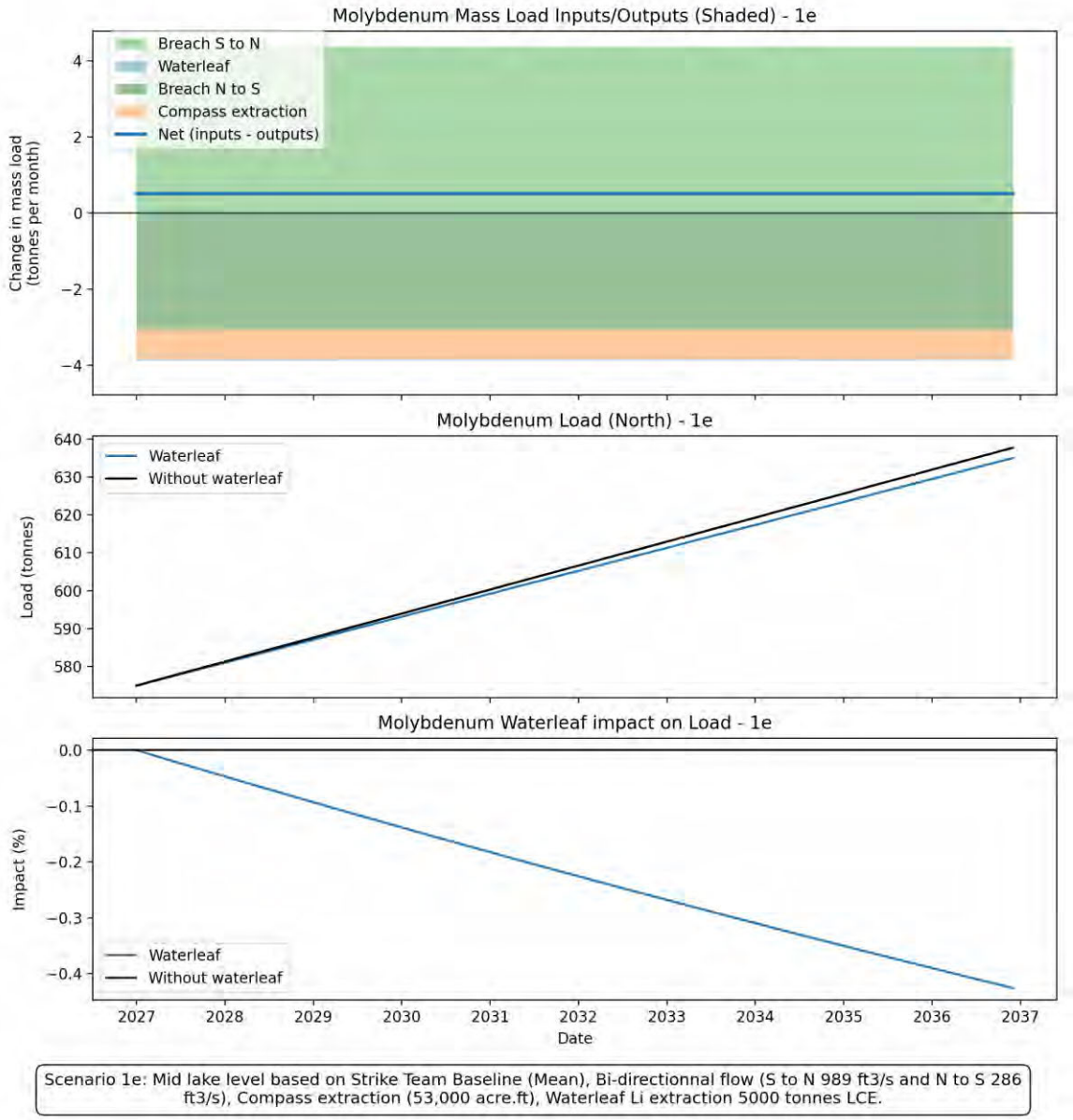


Figure 94: monthly mass balance molybdenum 1e

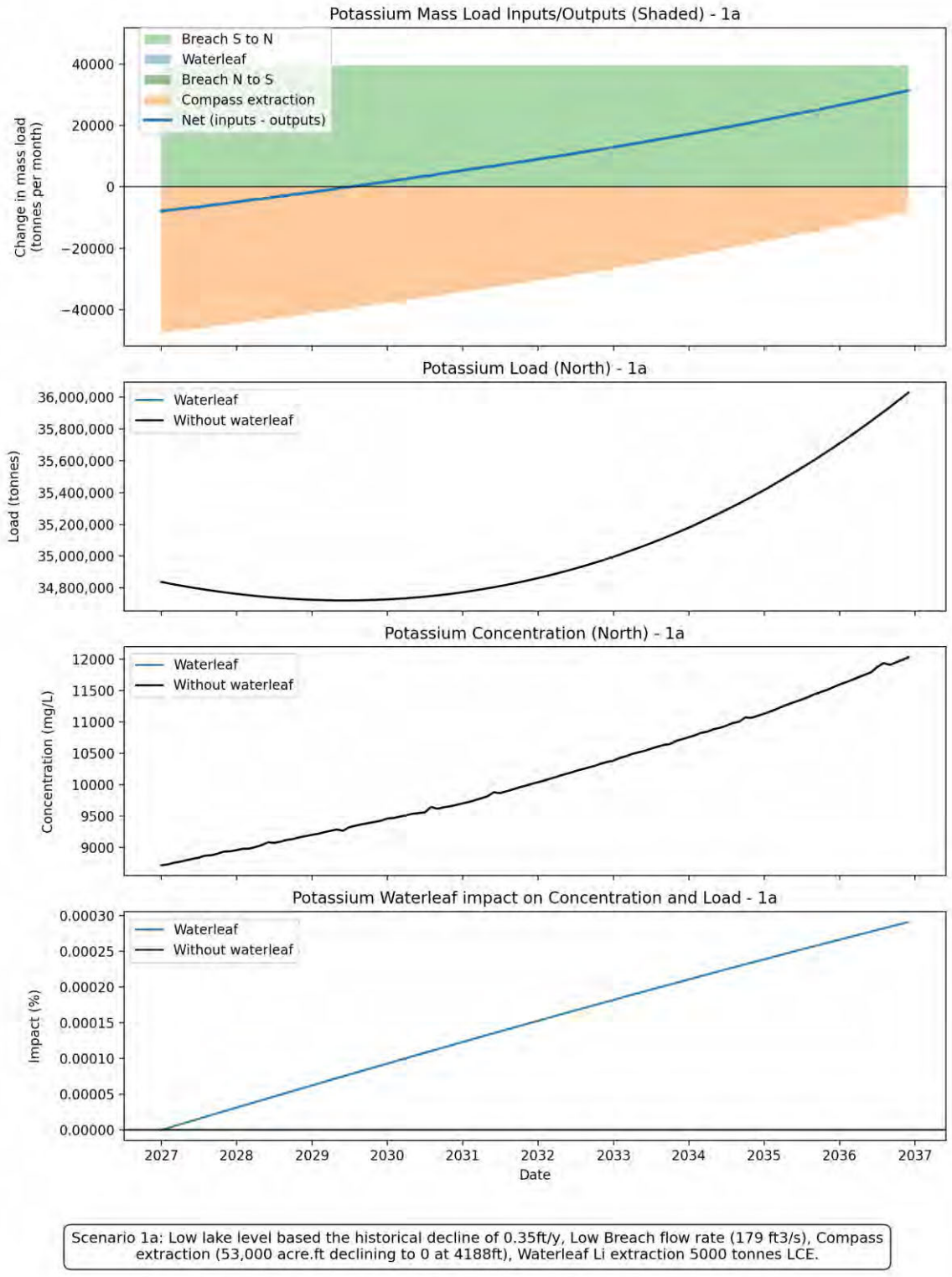


Figure 95: monthly mass balance potassium 1a

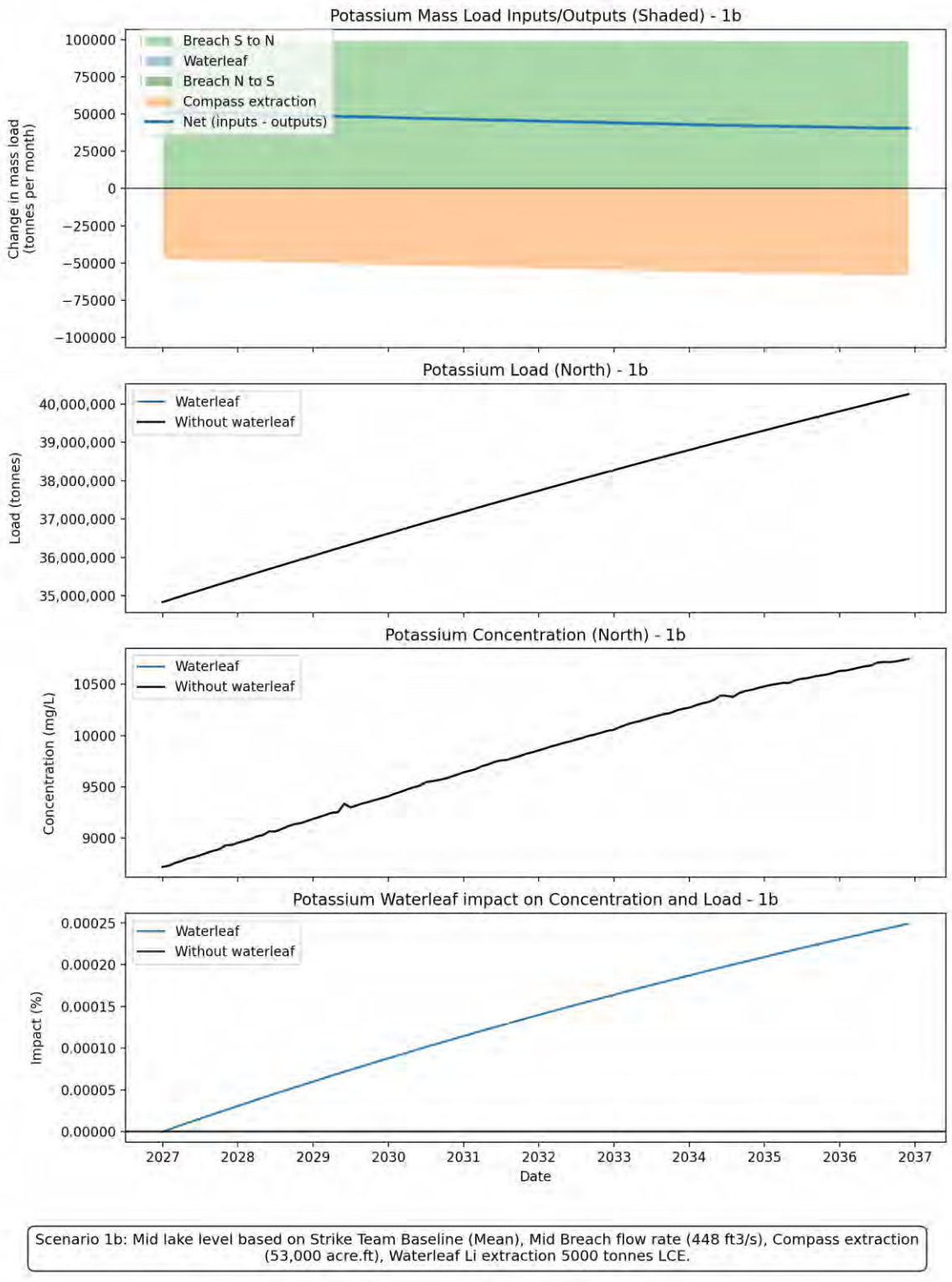


Figure 96: monthly mass balance potassium 1b

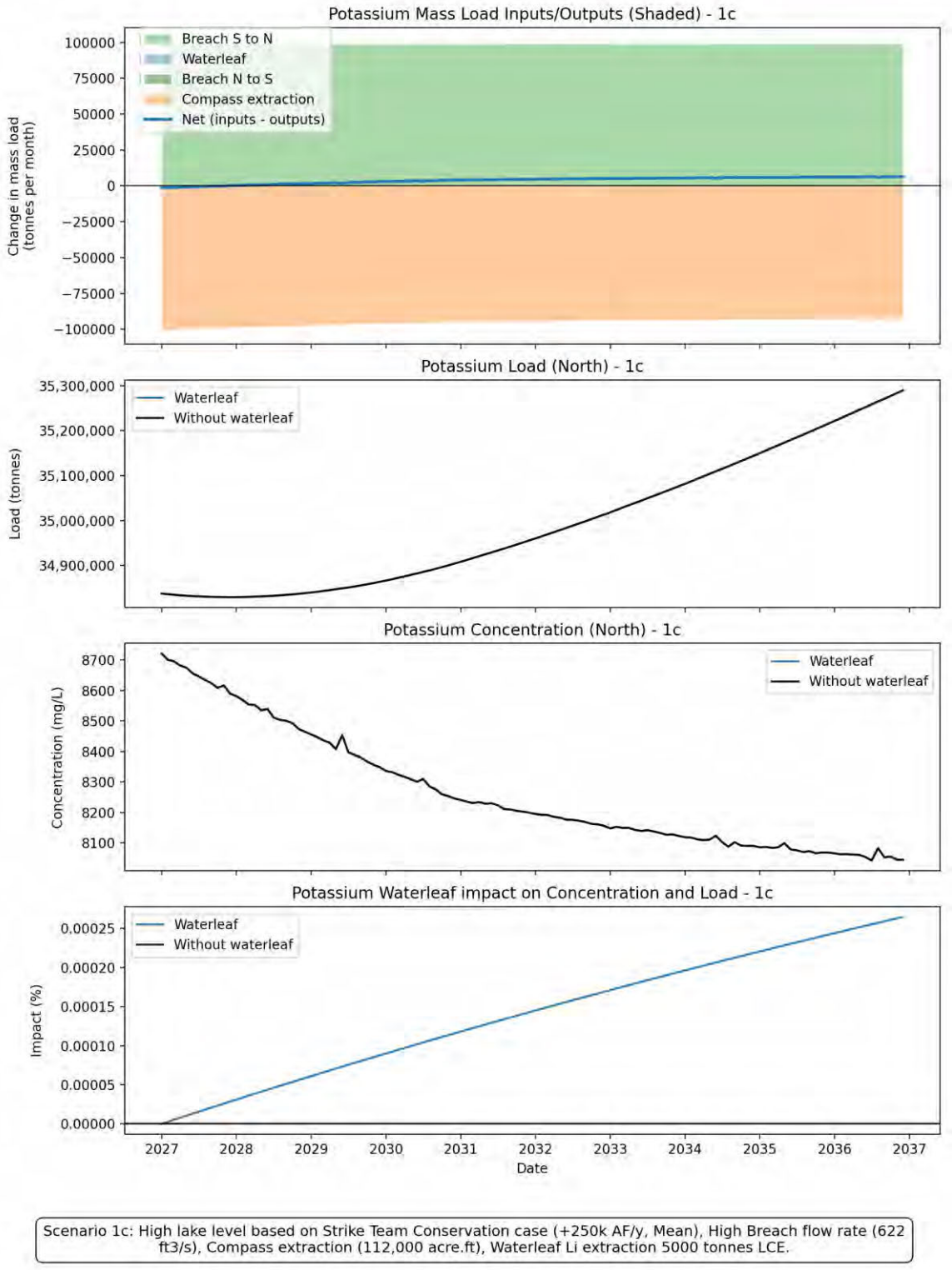


Figure 97: monthly mass balance potassium 1c

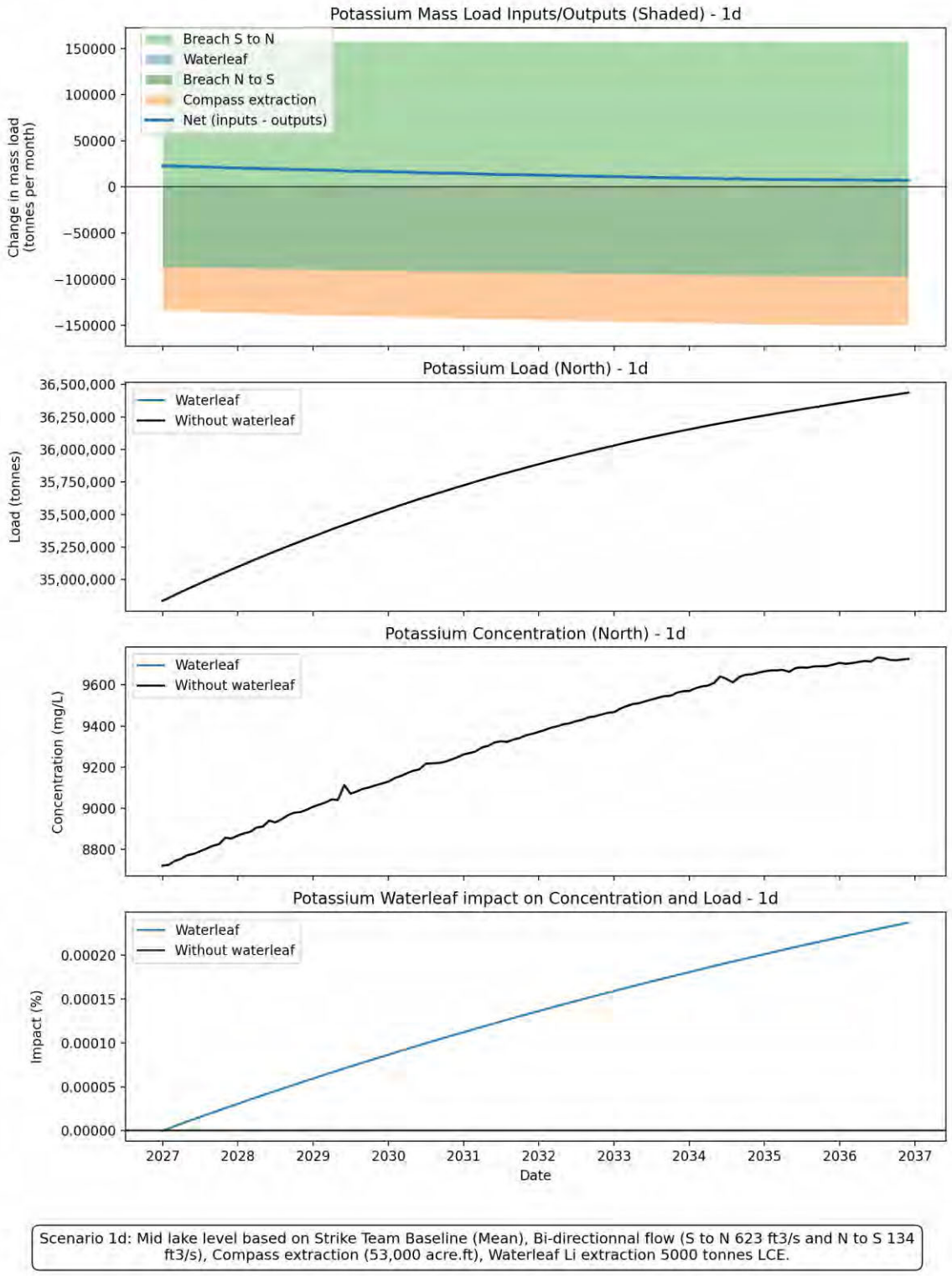


Figure 98: monthly mass balance potassium 1d

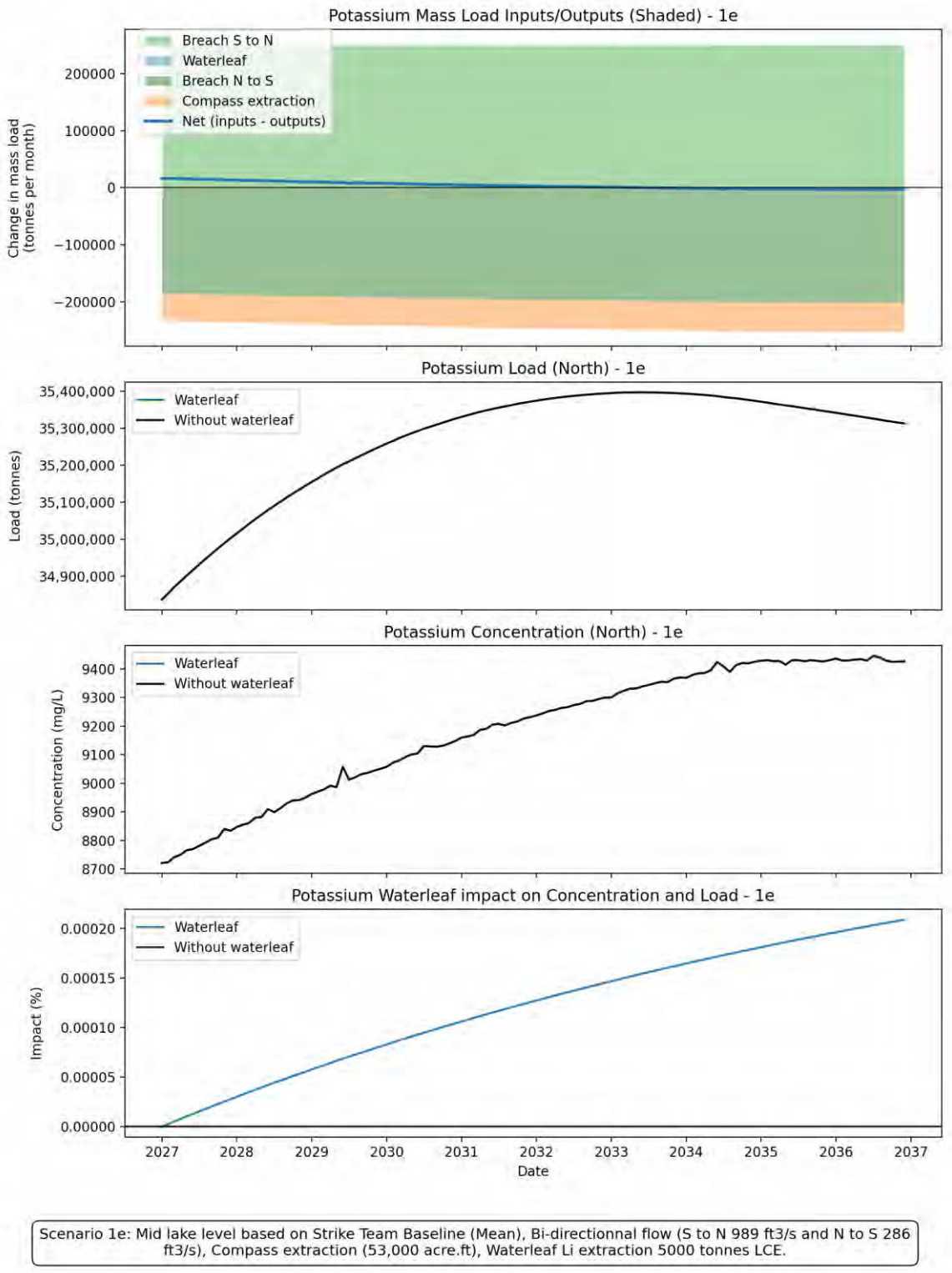


Figure 99: monthly mass balance potassium 1e

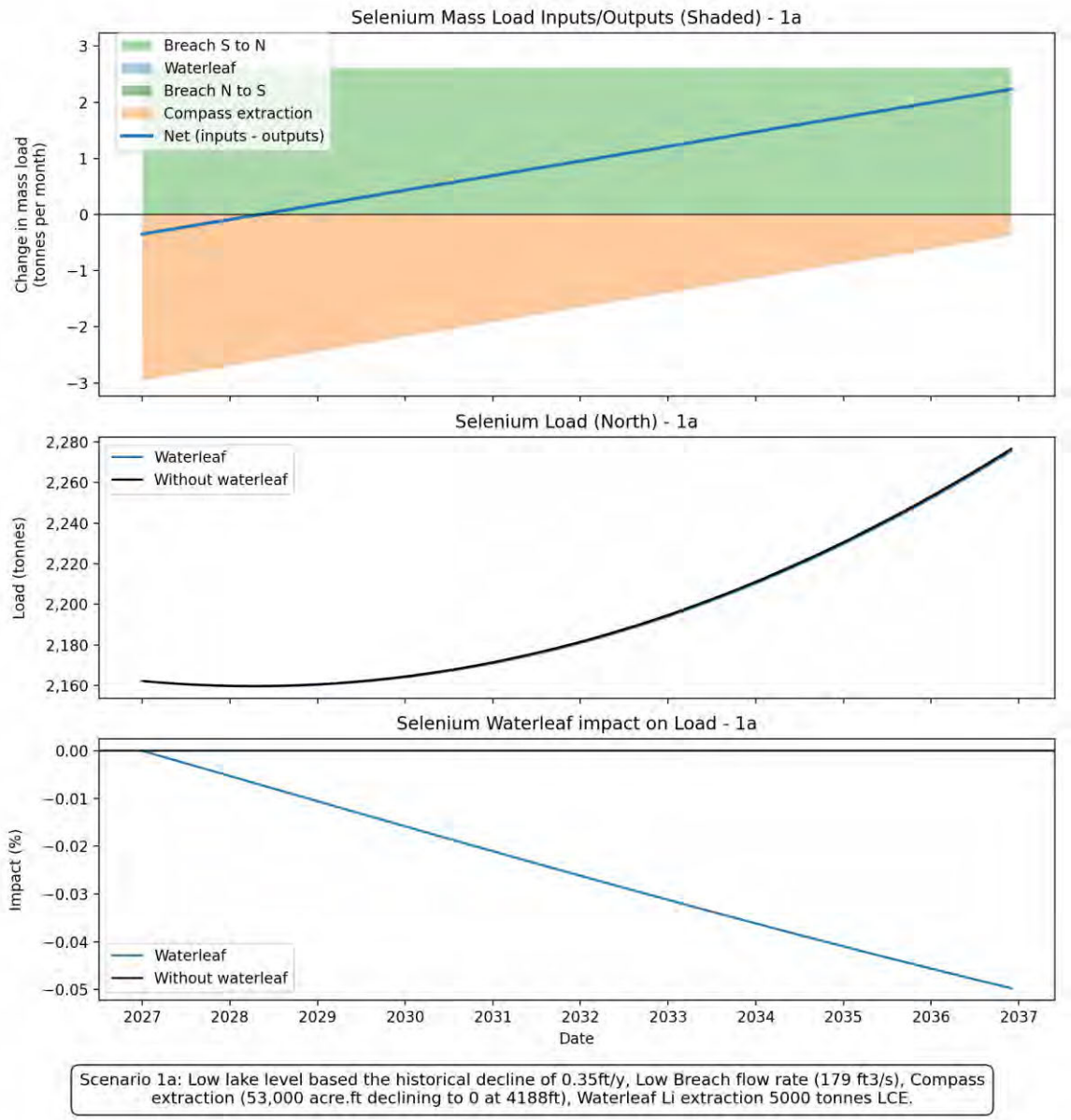


Figure 100: monthly mass balance selenium 1a

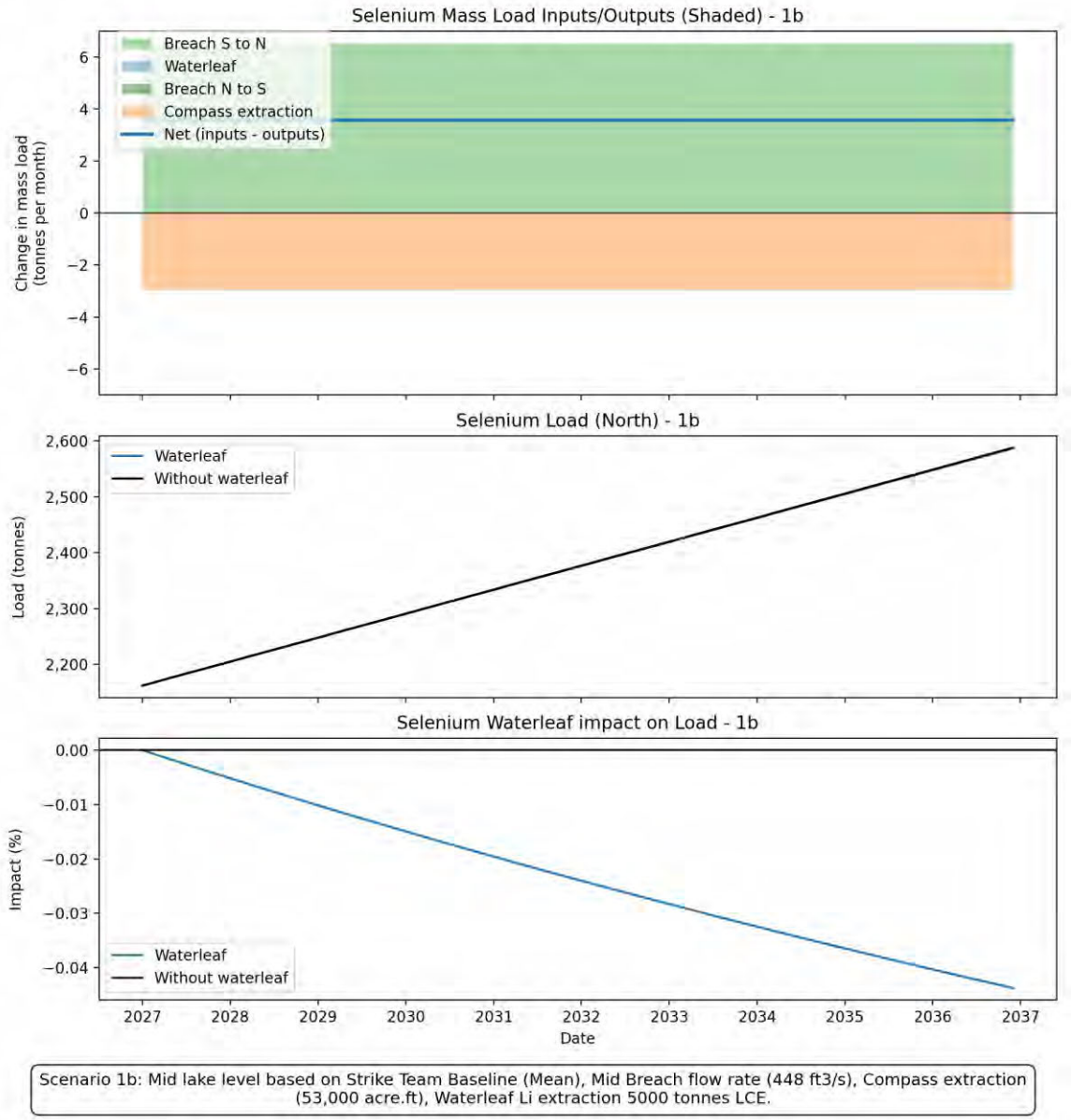


Figure 101: monthly mass balance selenium 1b

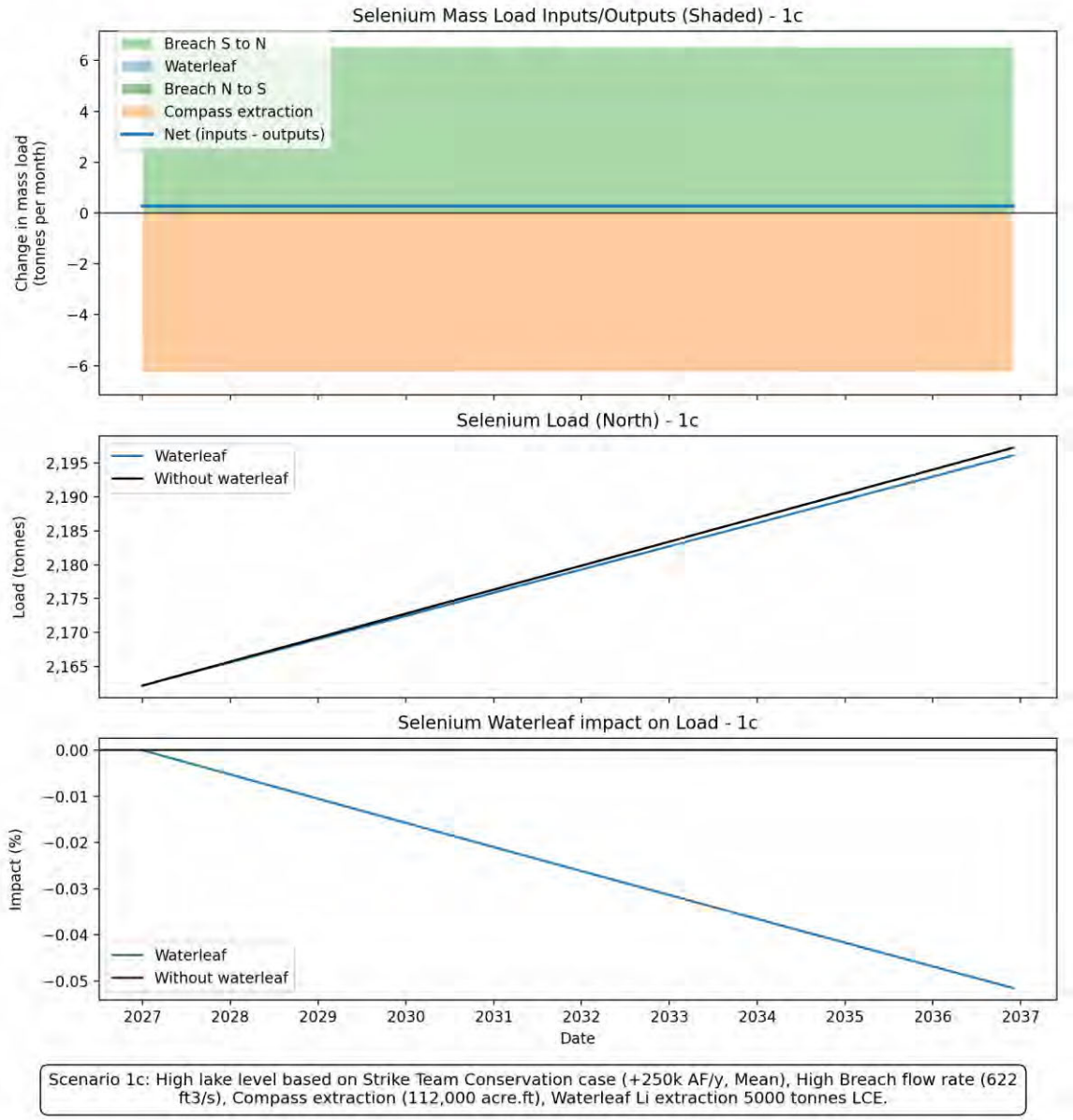


Figure 102: monthly mass balance selenium 1c

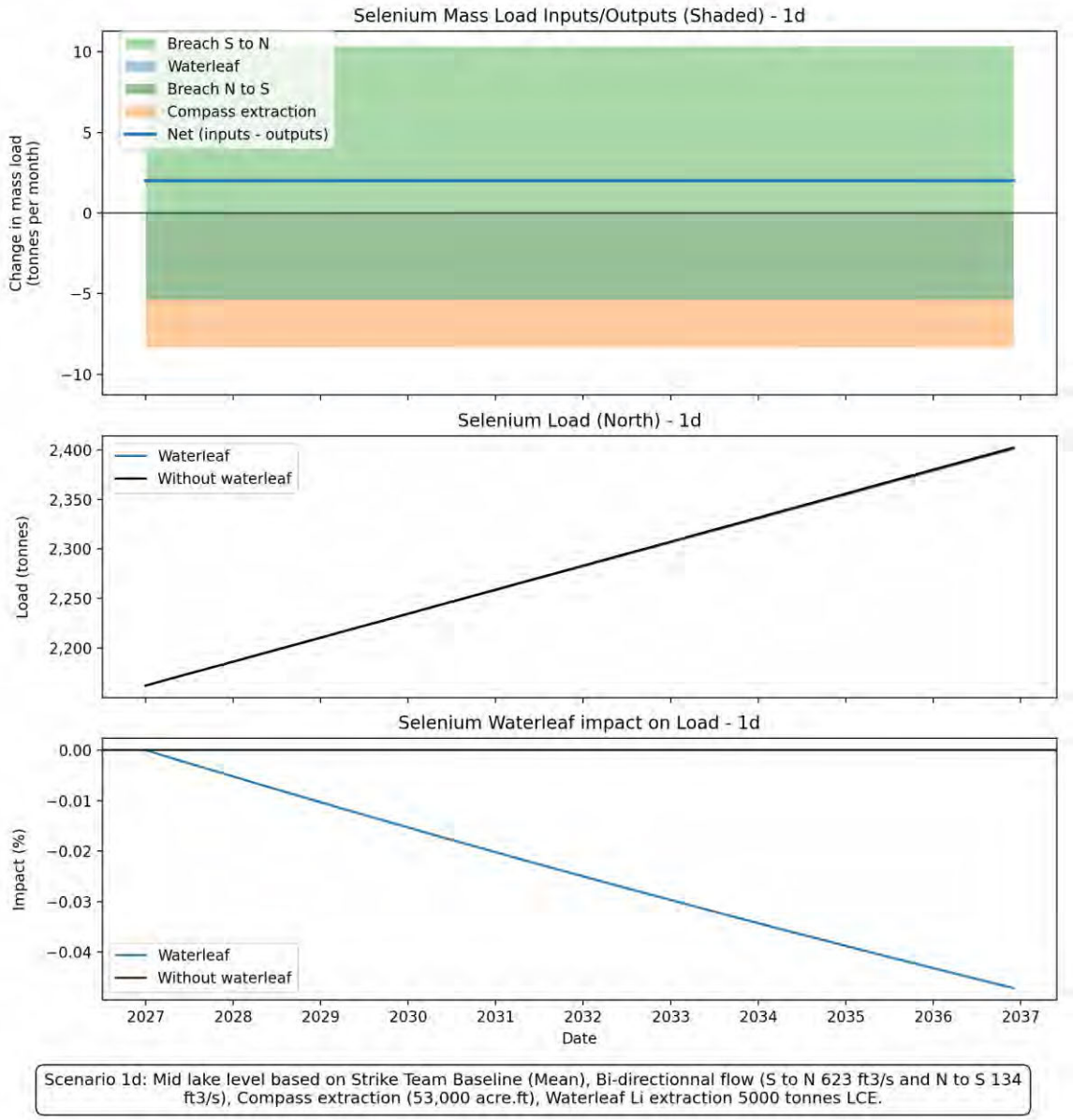


Figure 103: monthly mass balance selenium 1d

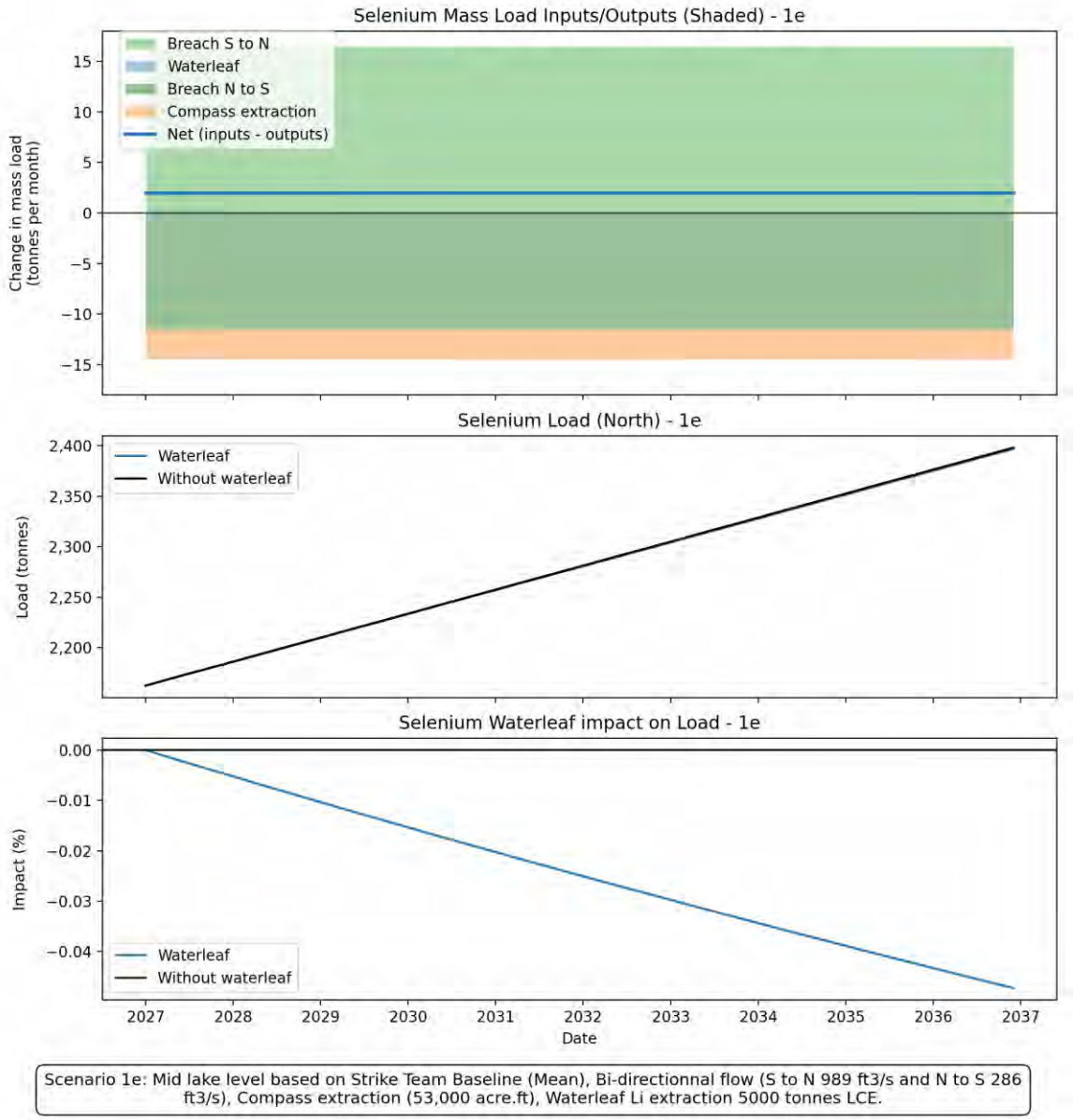


Figure 104: monthly mass balance selenium 1e

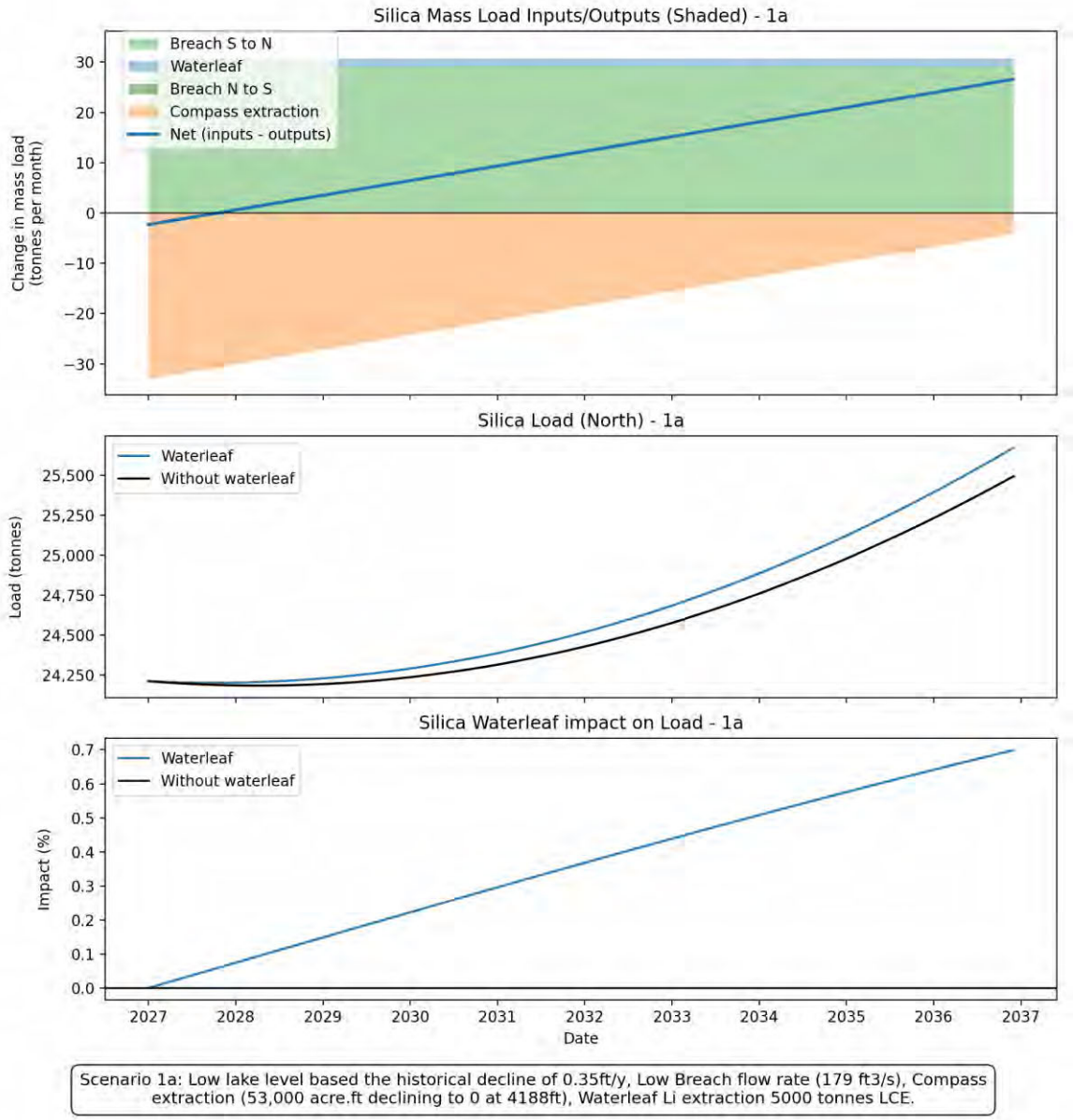


Figure 105: monthly mass balance silica 1a

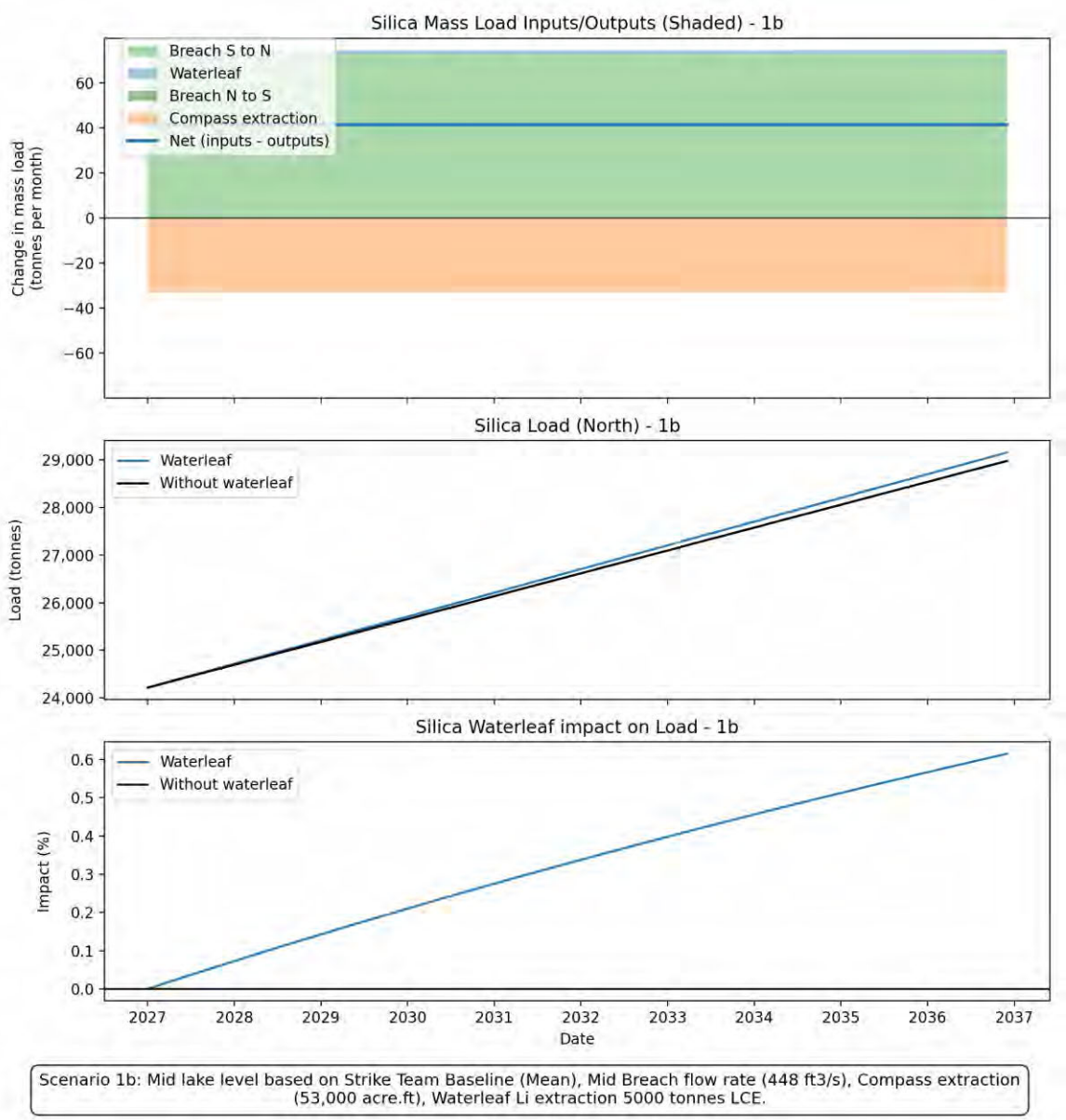


Figure 106: monthly mass balance silica 1b

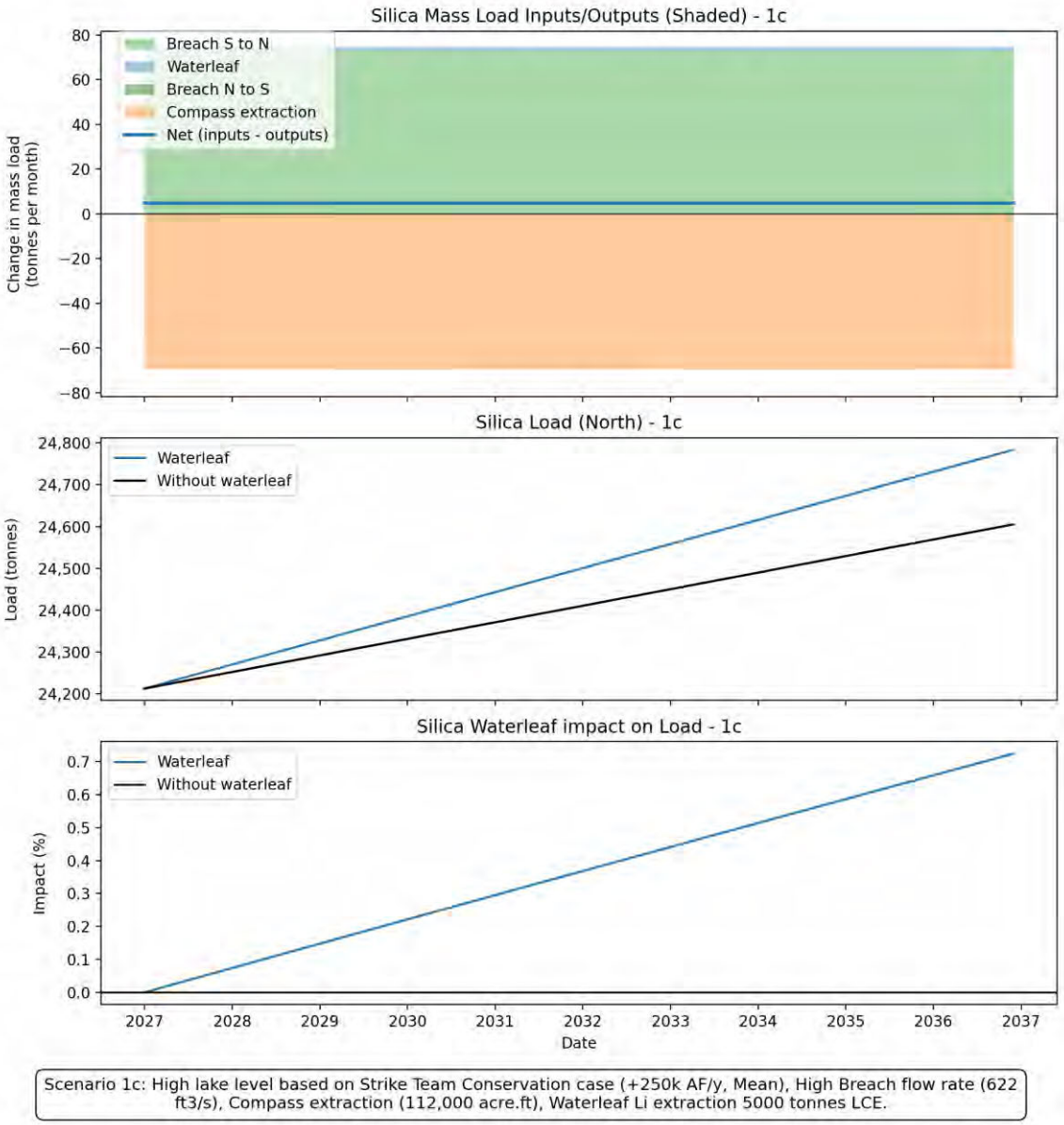


Figure 107: monthly mass balance silica 1c

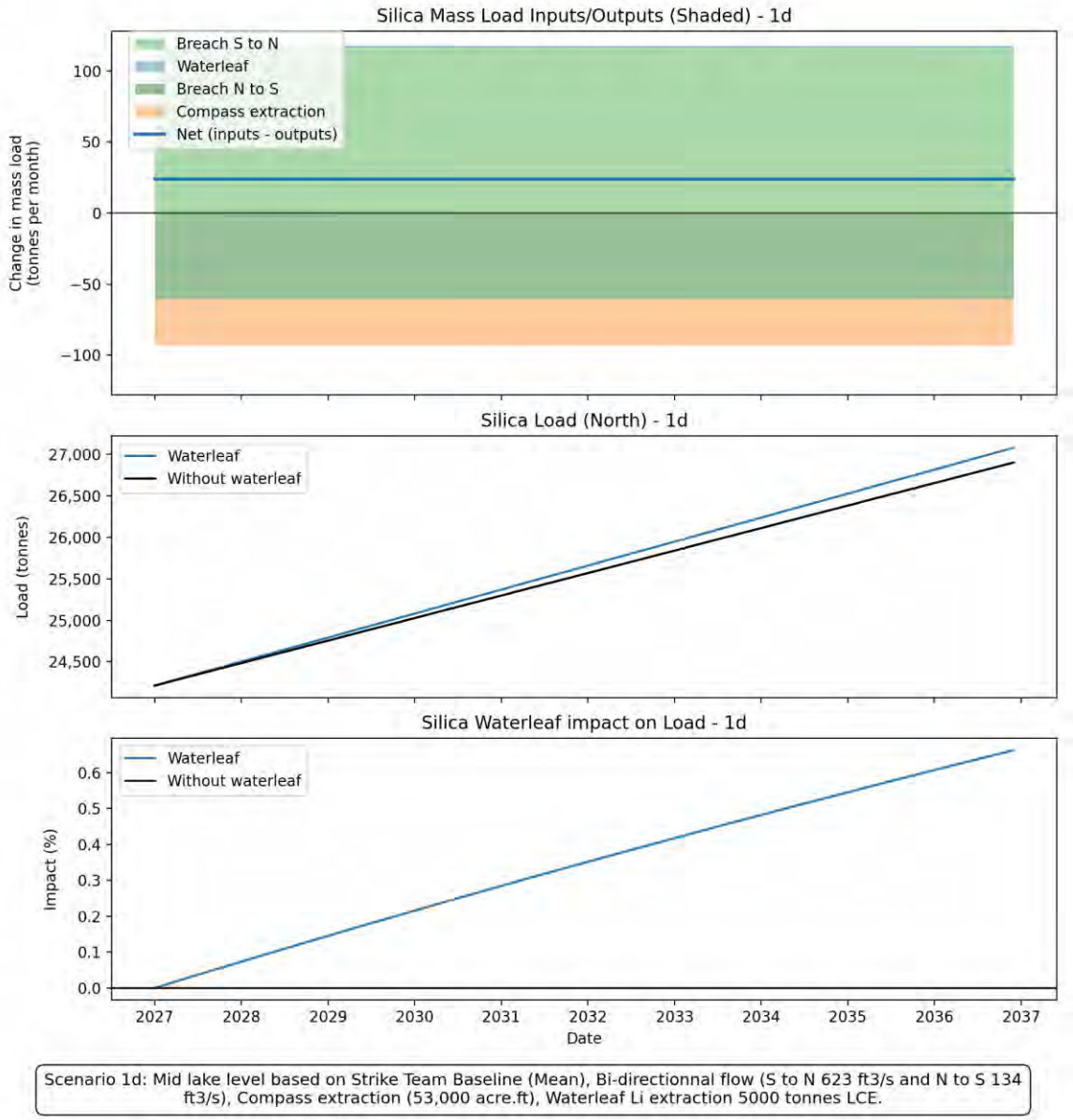


Figure 108: monthly mass balance silica 1d

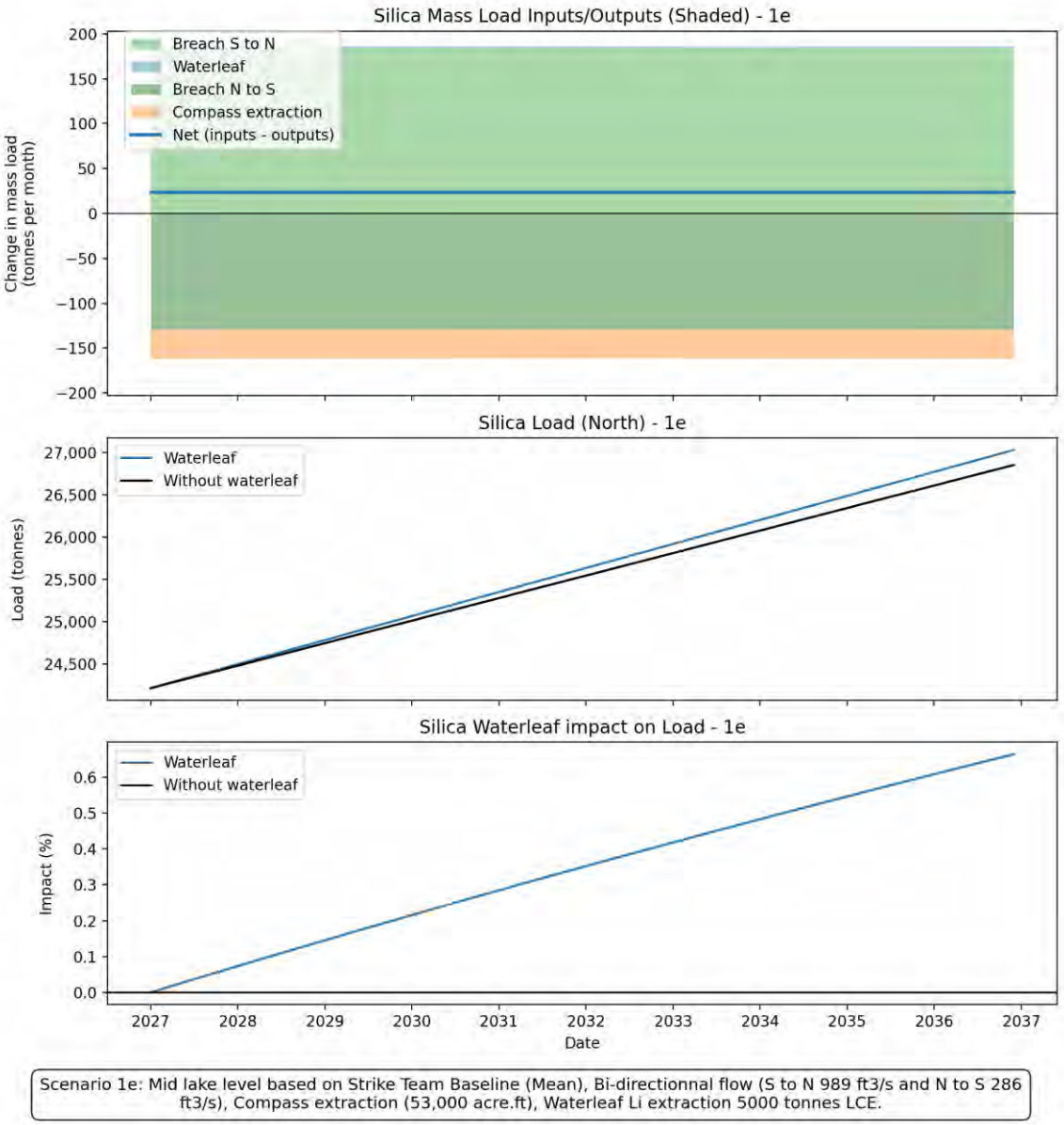


Figure 109: monthly mass balance silica 1e

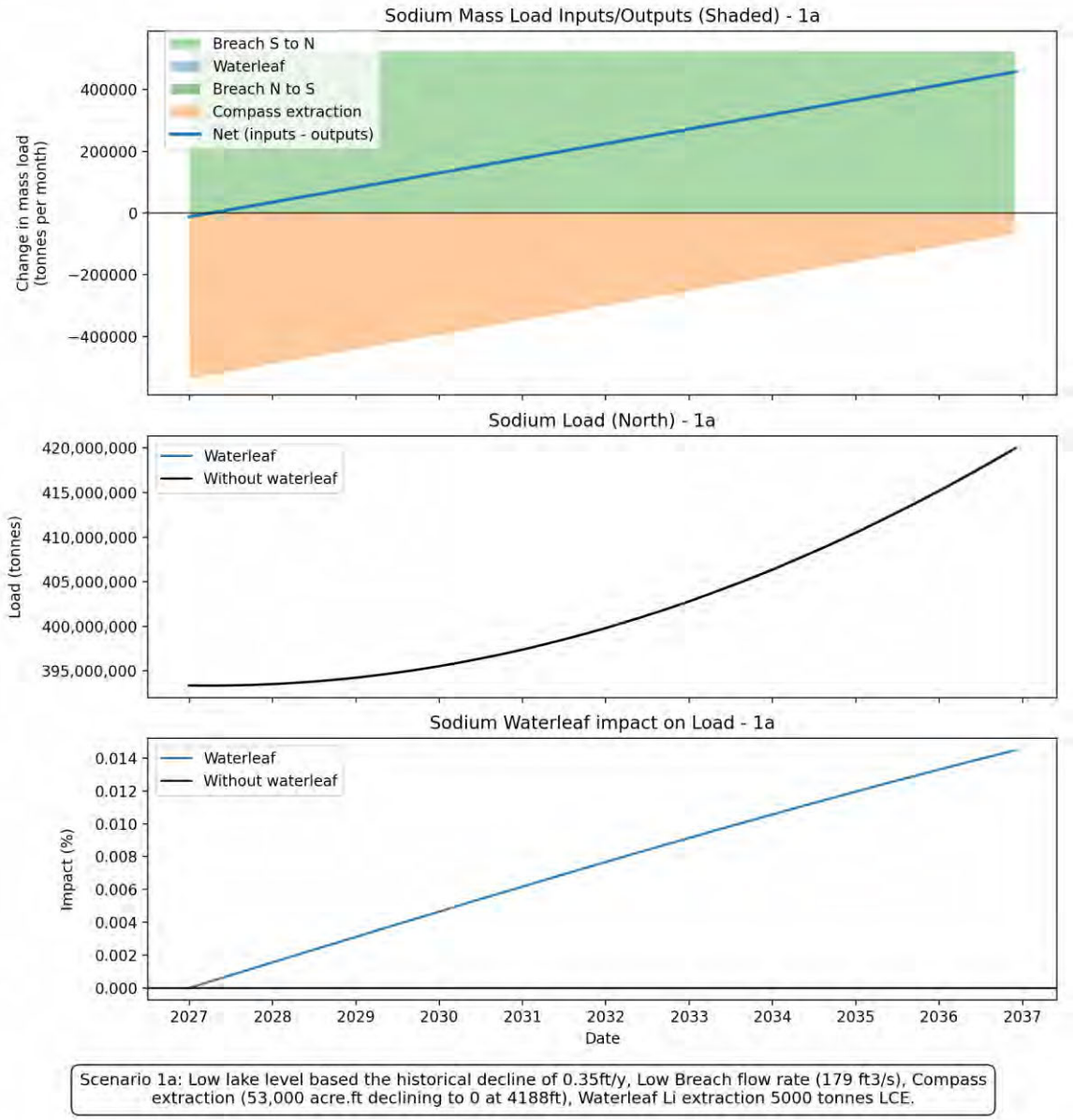


Figure 110: monthly mass balance sodium 1a

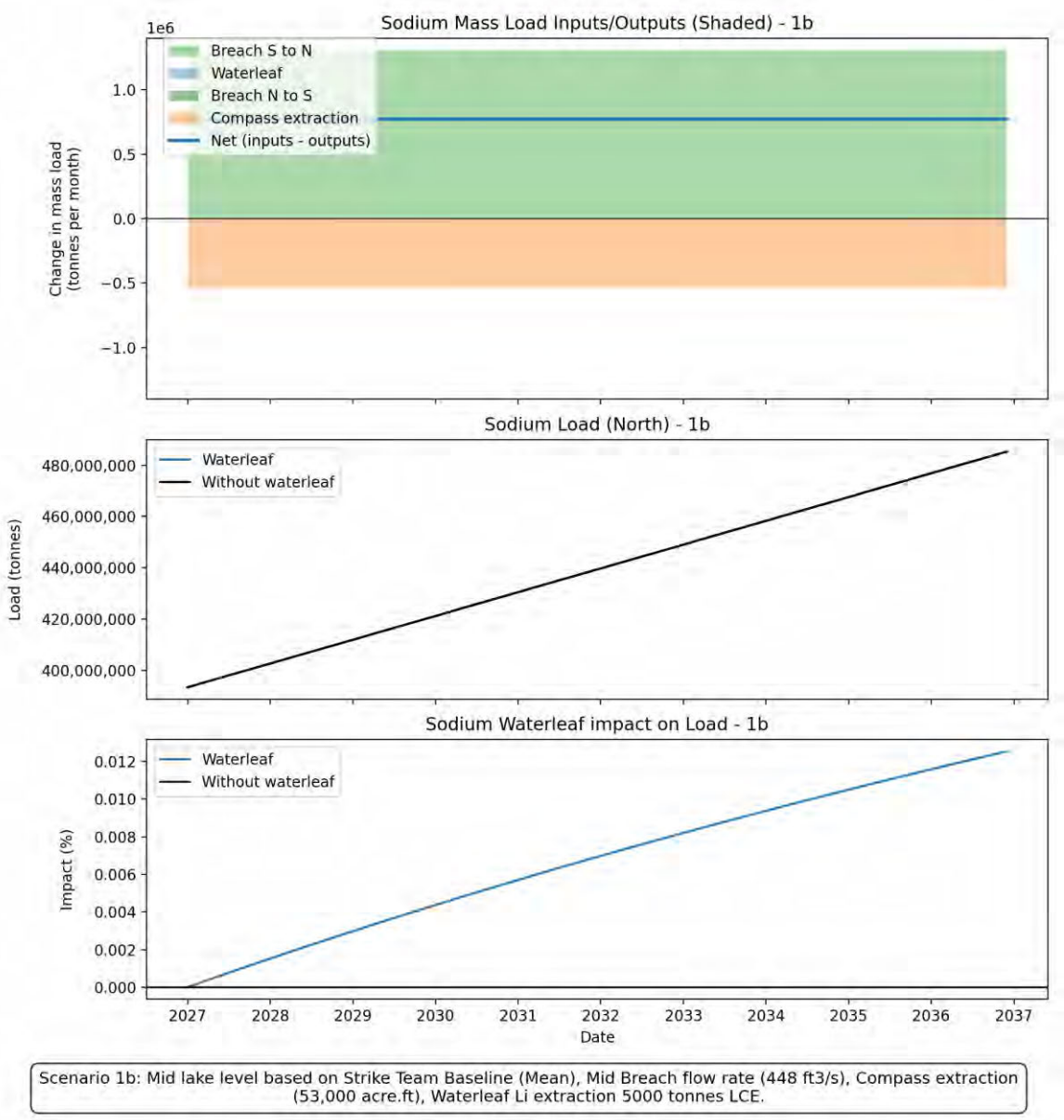


Figure 111: monthly mass balance sodium 1b

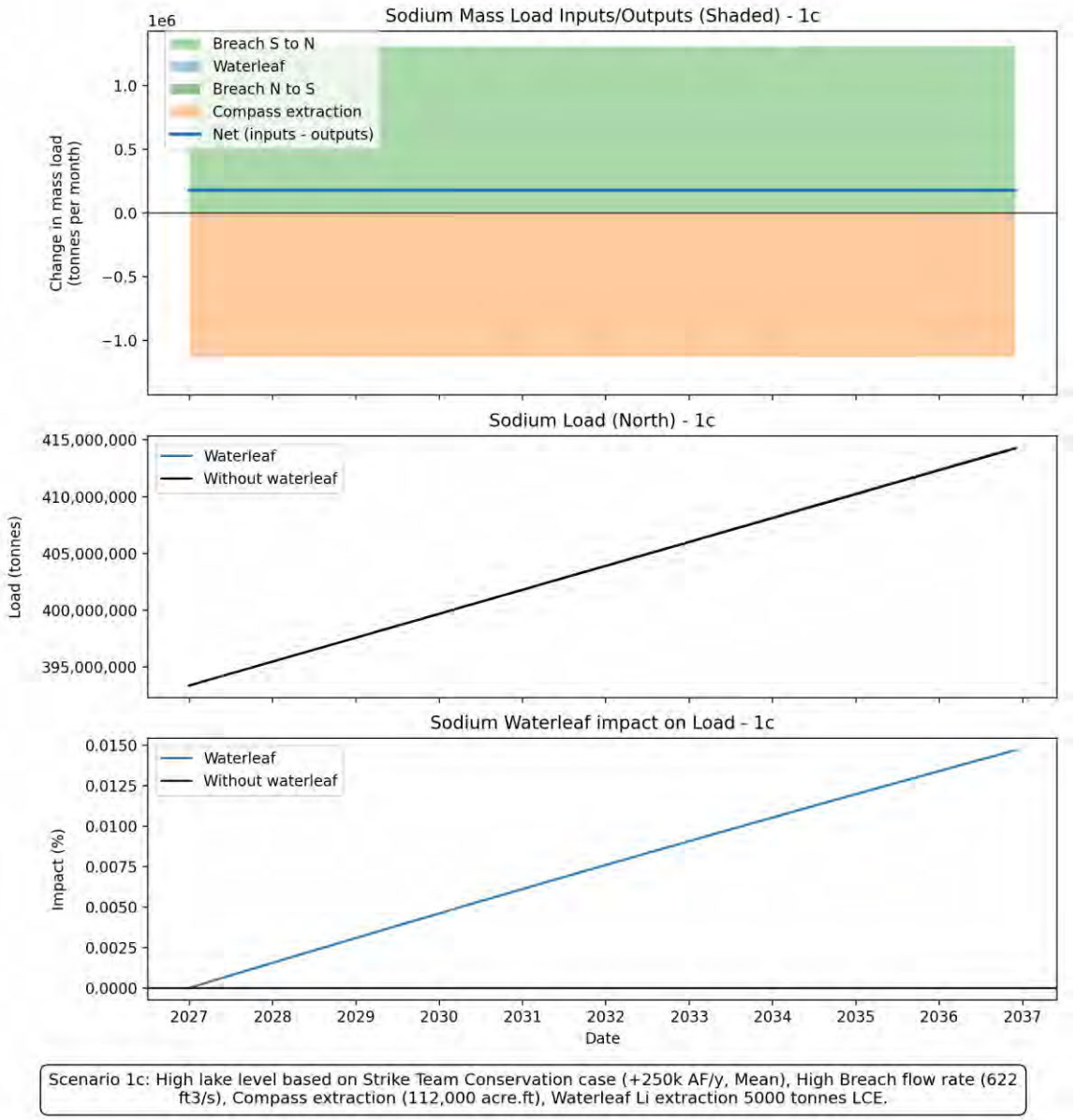


Figure 112: monthly mass balance sodium 1c

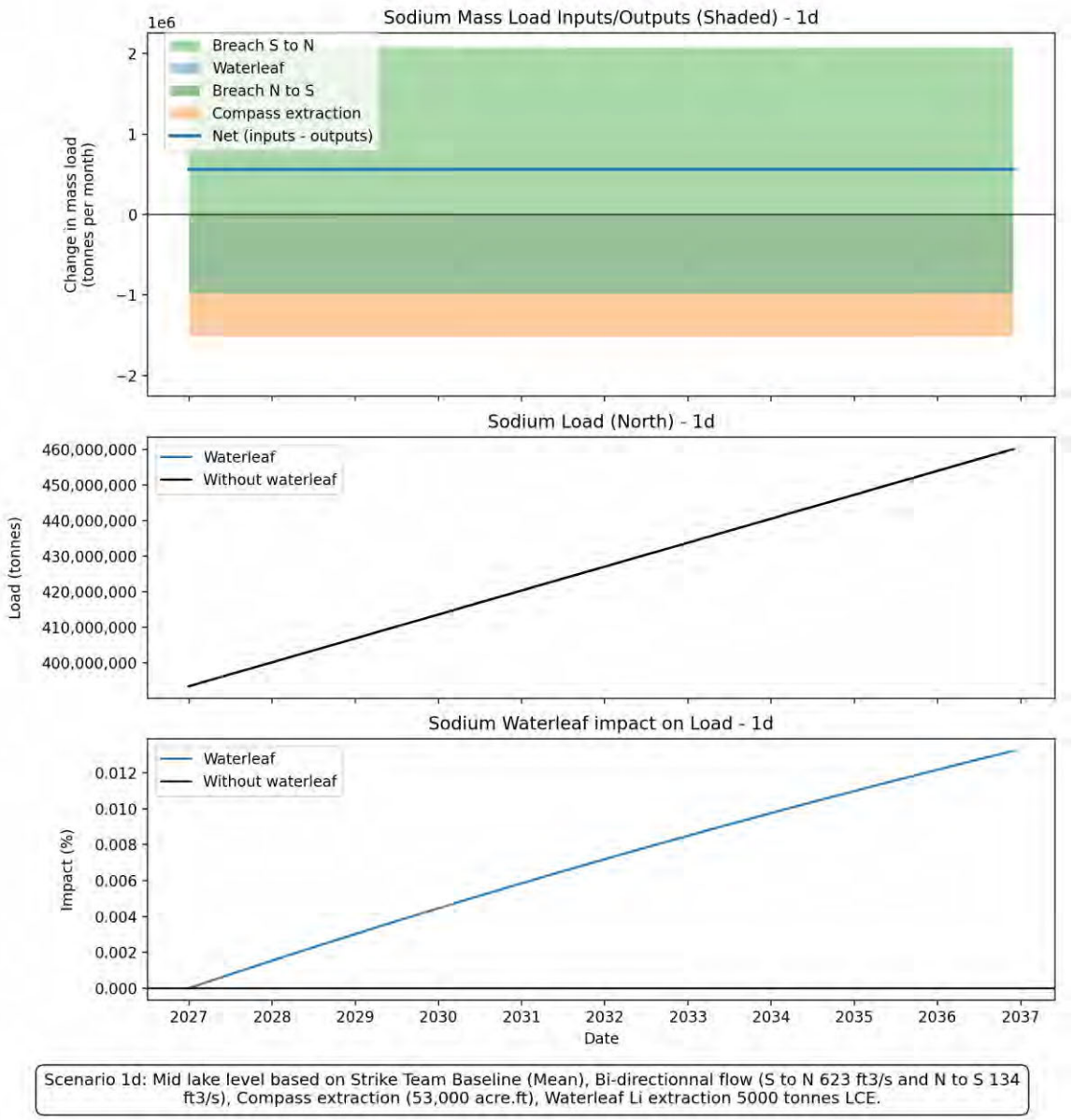


Figure 113: monthly mass balance sodium 1d

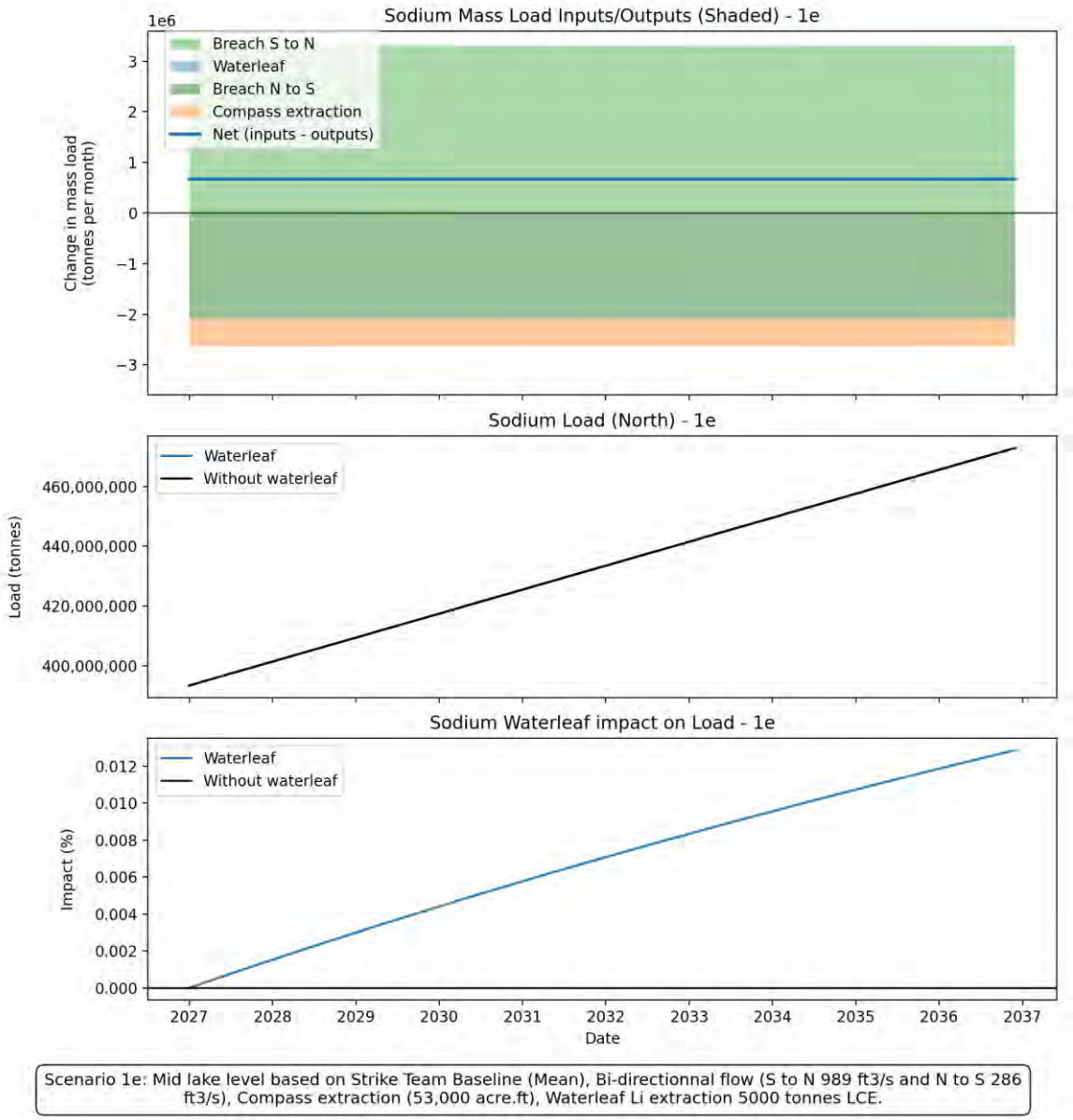


Figure 114: monthly mass balance sodium 1e

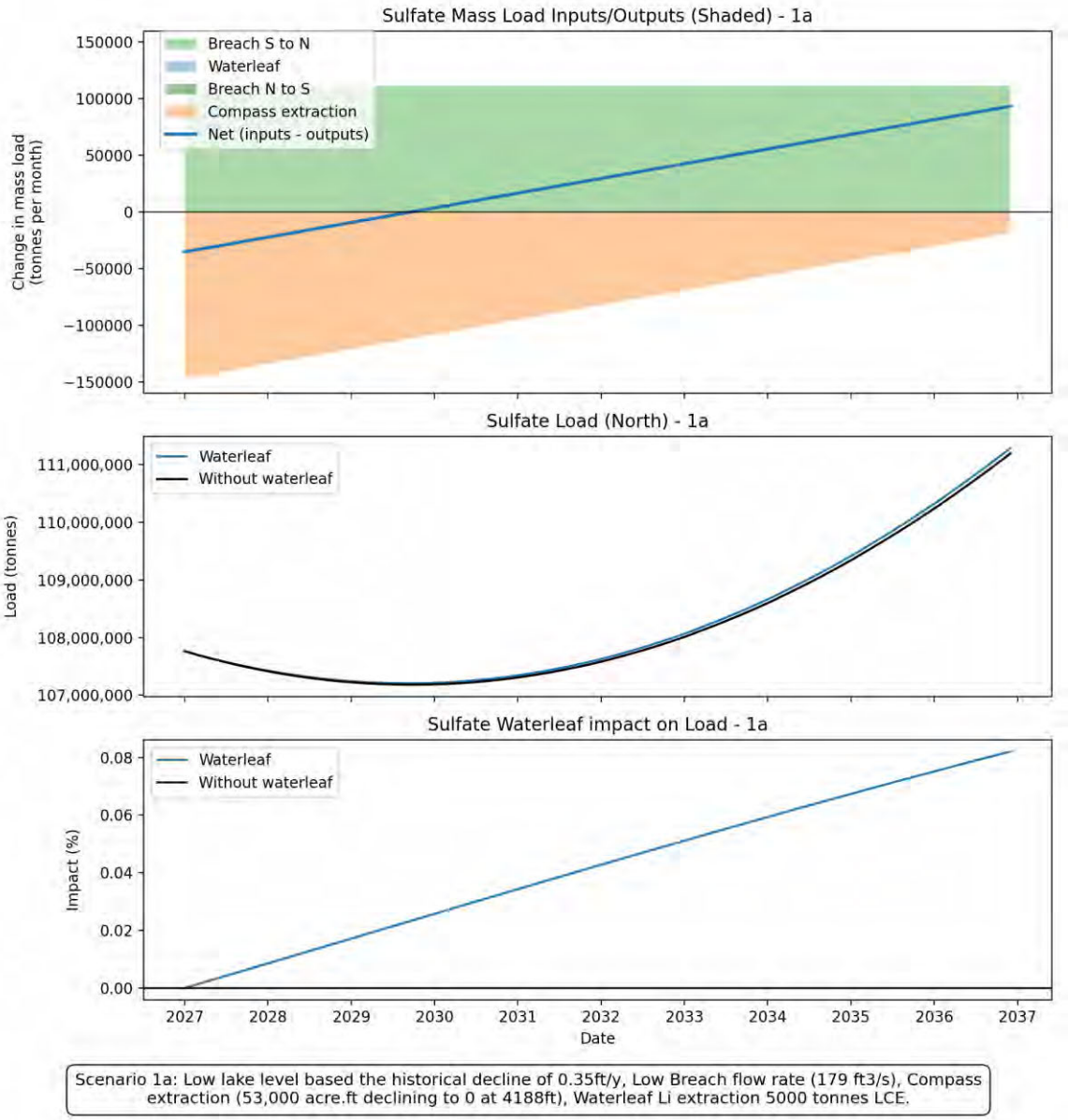


Figure 115: monthly mass balance sulfate 1a

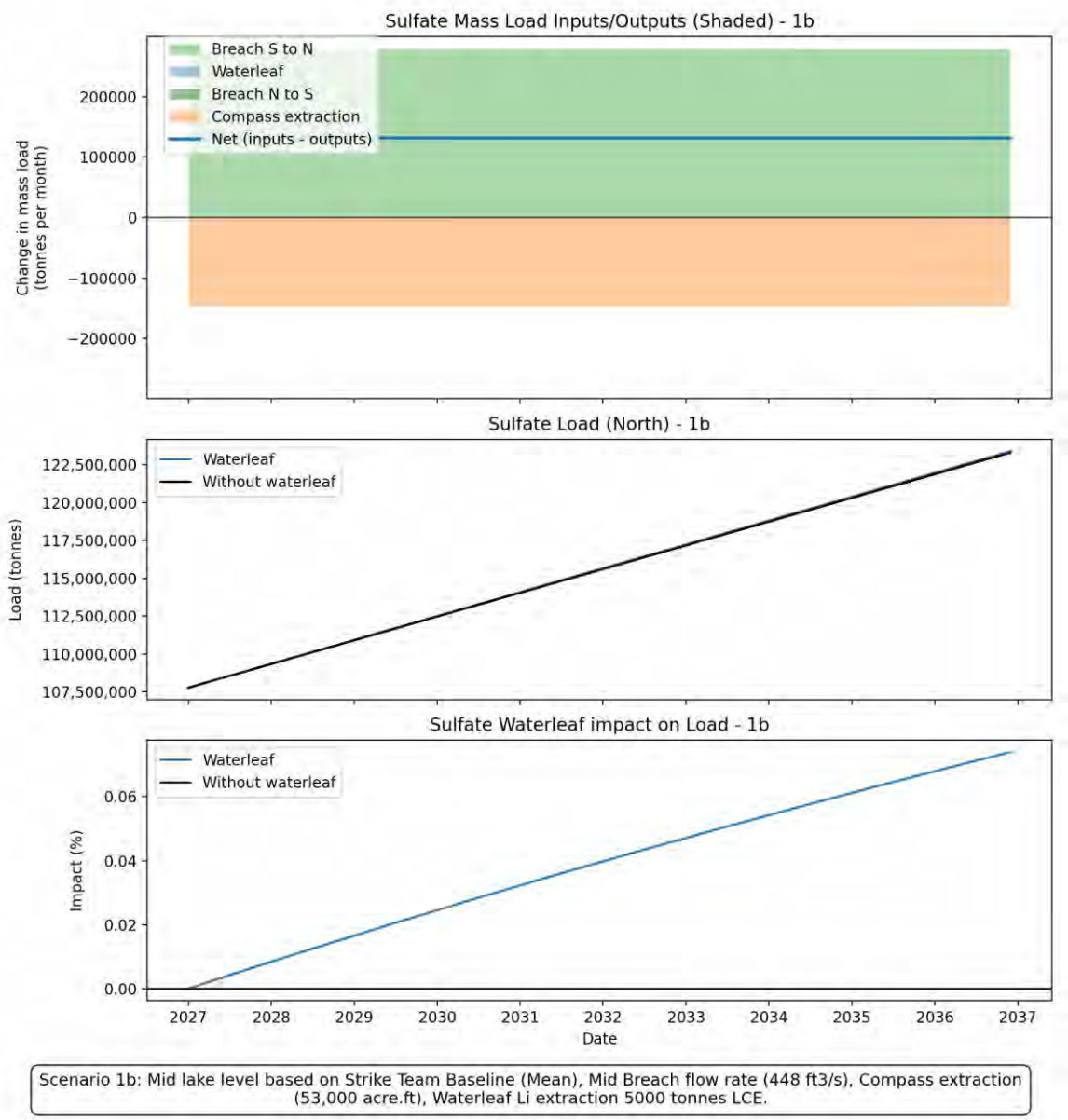


Figure 116: monthly mass balance sulfate 1b

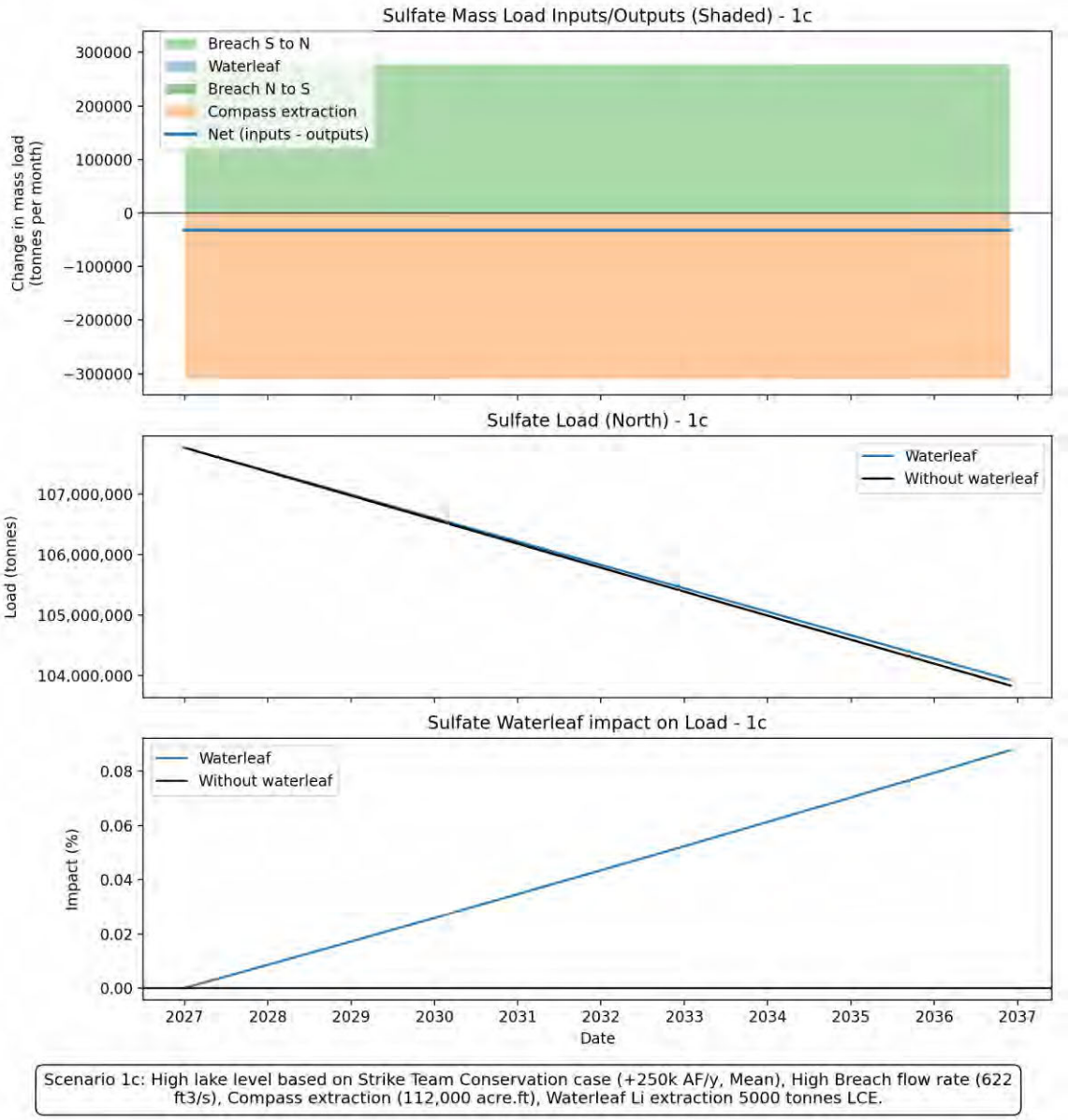


Figure 117: monthly mass balance sulfate 1c

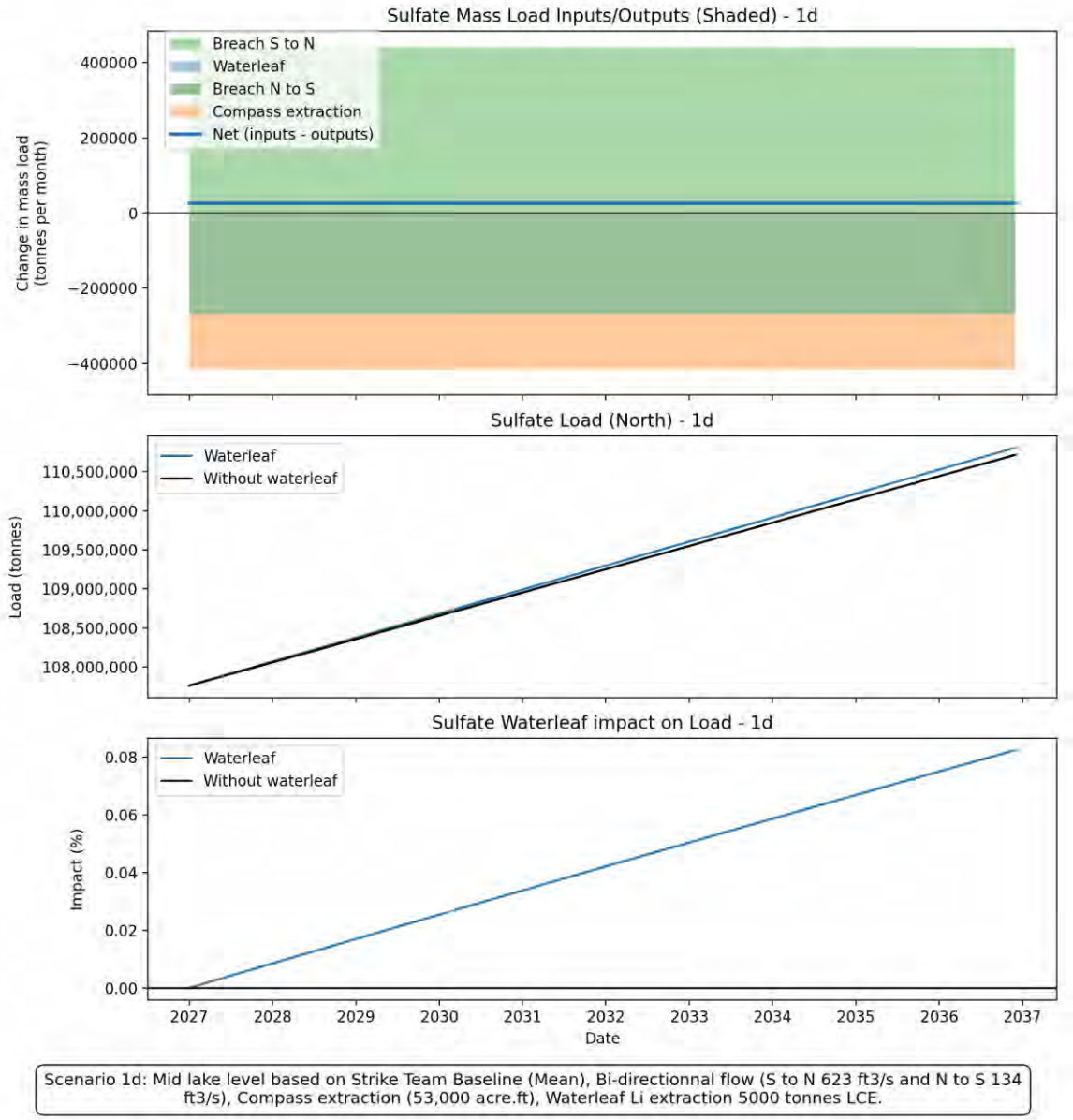


Figure 118: monthly mass balance sulfate 1d

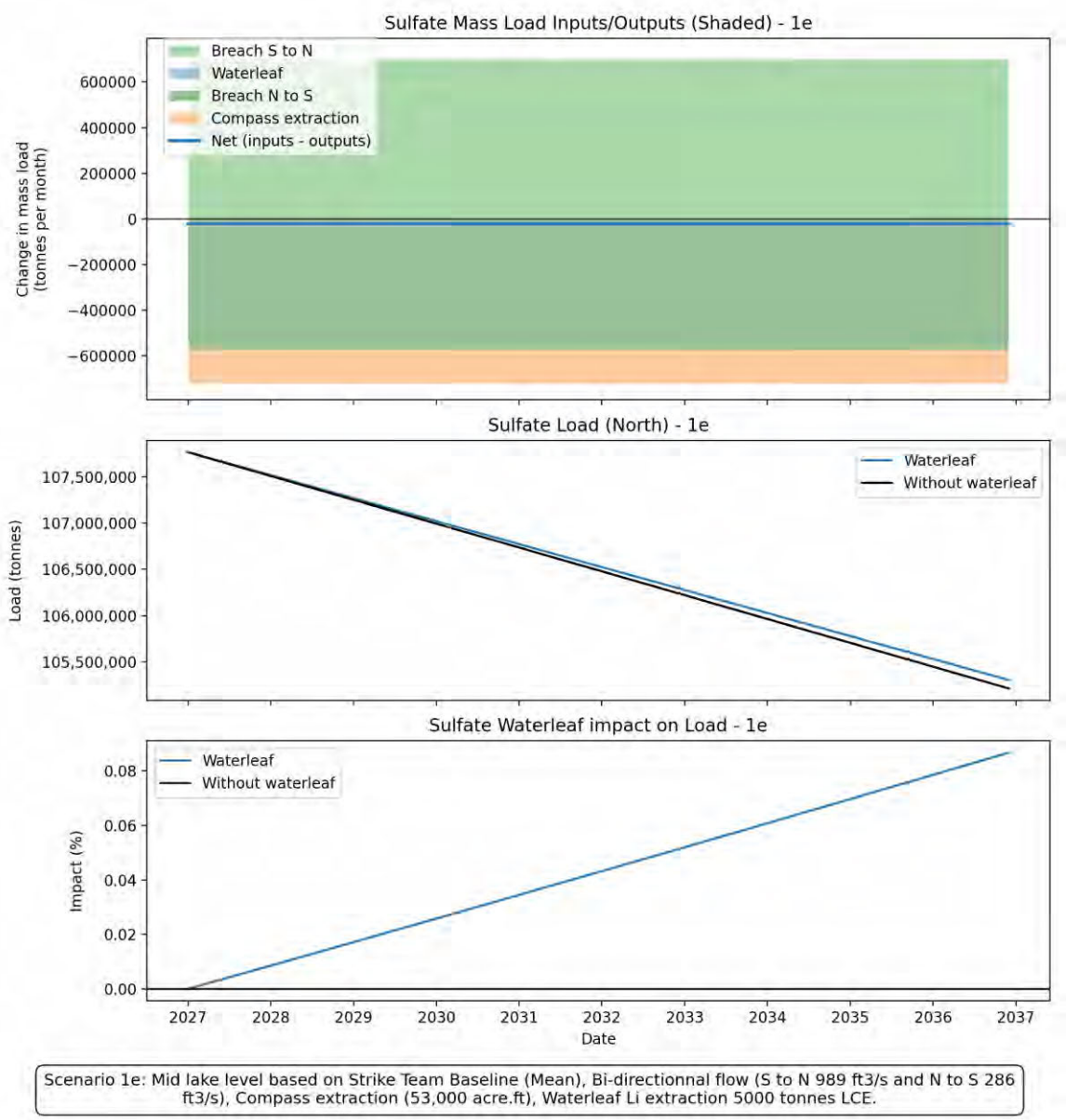


Figure 119: monthly mass balance sulfate 1e

Data sources used

The analyses documented in this memorandum are based on the following data sources:

- **USGS lake level records**

  North arm (Gunnison Bay): USGS station **10010100**

  South arm (Gilbert Bay): USGS station **10010000**

- **USGS causeway breach flow measurements**

  South-to-north flow: USGS station **10010025**

  North-to-south flow: USGS station **10010026**

- **Brine data**

  Utah Geological Survey, Great Salt Lake brine chemistry database

  Compass Minerals Minerals data (CMP Ex96.1 Revised Ogden Lithium Technical Report Summary, 2020)

  Waterleaf and Montgomery sampling campaigns (2024–2025)

  Pilot data

- **Causeway berm elevation and modification records**

  Utah Department of Natural Resources

  Union Pacific Railroad documentation

- **Third-party mineral extraction data**

  Compass Minerals Minerals production and withdrawal records

- **Independent lithium mass and concentration estimates**

  Montgomery (2024, 2025)

- **Lake level–area–volume relationships**

  USGS published bathymetric and hypsometric datasets

APPENDIX I

Demonstration Plant Operation and Relation to Water Quality

Timeline of Operational Milestones and Changes at GSL Demonstration Plant:

<table>
<tr><th>Milestones / Changes</th><th>Date</th><th>IXM</th><th>IX Vessel</th><th>Raw Brine Filtration</th><th>Depleted Brine Filtration</th></tr>
<tr><td>Start of GSL Brine Flow into Demonstration Plant</td><td>1/11/2025</td><td rowspan="2">Commissi-oning Batch</td><td rowspan="3">Config A</td><td>Polymeric UF</td><td rowspan="4">Polymeric UF</td></tr>
<tr><td>Raw Brine Filtration:
Polymeric UF -> Ceramic UF</td><td>2/2/2025</td><td rowspan="3">Ceramic UF</td></tr>
<tr><td>IXM:
Commissioning Batch -> Gen 4</td><td>3/15/2025</td><td rowspan="2">Generation 4</td></tr>
<tr><td>IX Vessel:
Config A -> Config B</td><td>4/5/2025</td><td rowspan="7">Config B</td></tr>
<tr><td>IXM:
Gen 4 -> Gen 5</td><td>4/11/2025</td><td rowspan="6">Generation 5</td></tr>
<tr><td>Raw Brine Filtration:
Ceramic UF -> MMF

Depleted Brine Filtration:
Polymeric UF -> Filter Press</td><td>5/10/2025</td><td rowspan="5">MMF</td><td rowspan="2">Filter Press</td></tr>
<tr><td>Start of 21-day Performance Run</td><td>5/20/2025</td></tr>
<tr><td>End of 21-day Performance Run</td><td>6/10/2025</td></tr>
<tr><td>Depleted Brine Filtration:
Filter Press -> MMF</td><td>6/15/2025</td><td rowspan="2">MMF</td></tr>
<tr><td>End of Operations</td><td>8/15/2025</td></tr>
</table>

Abbreviations:

MMF: Multimedia Filtration

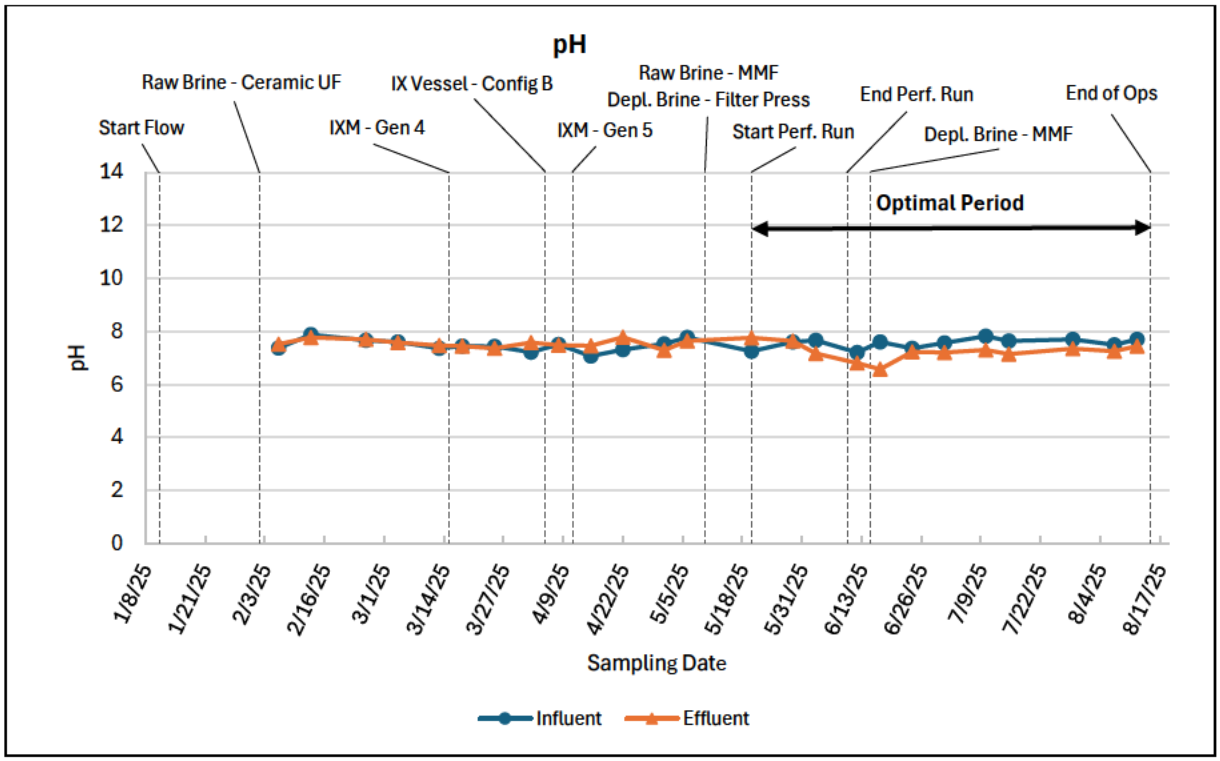
UF: Ultrafiltration

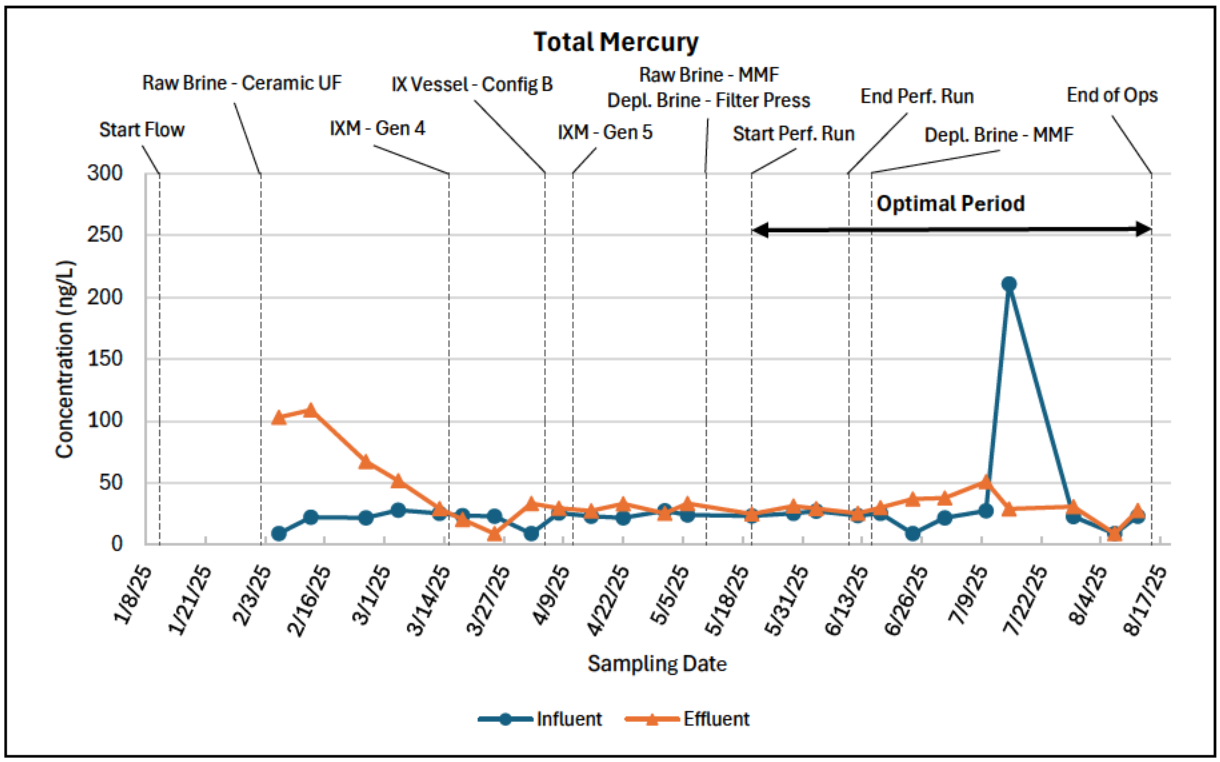
IX: Ion Exchange

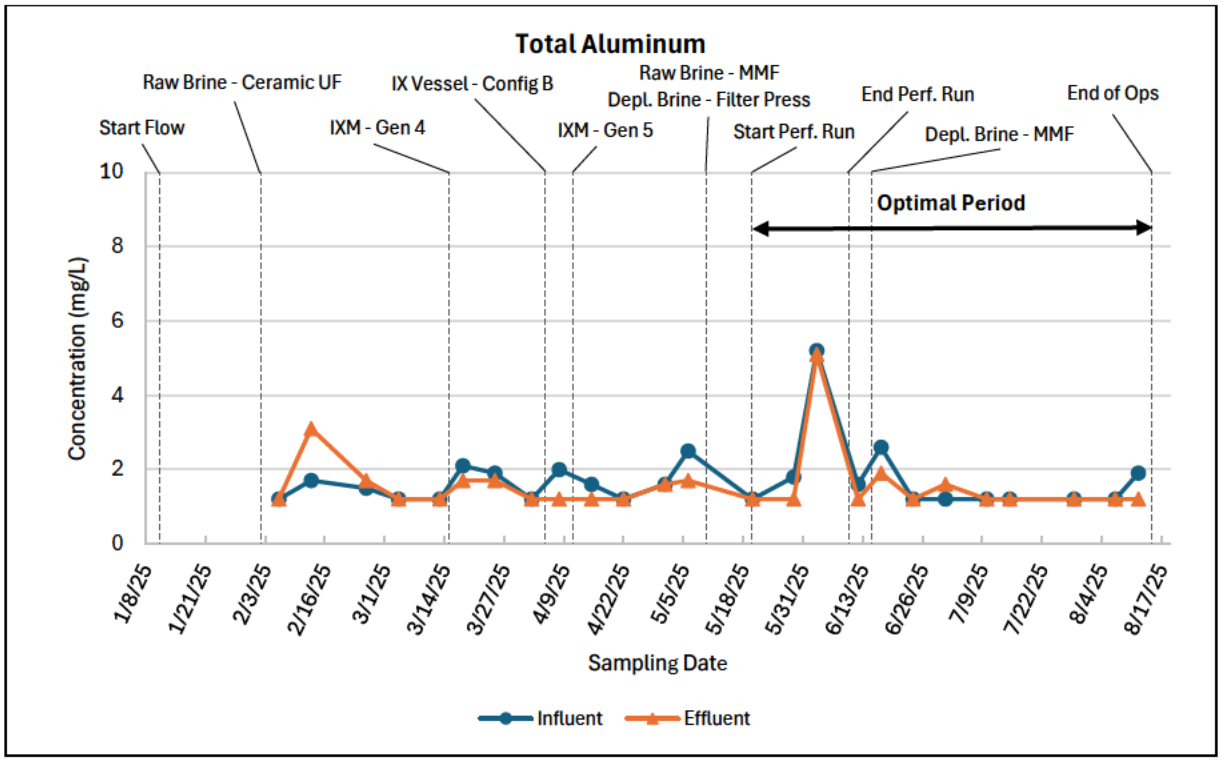
IXM: Ion Exchange Media

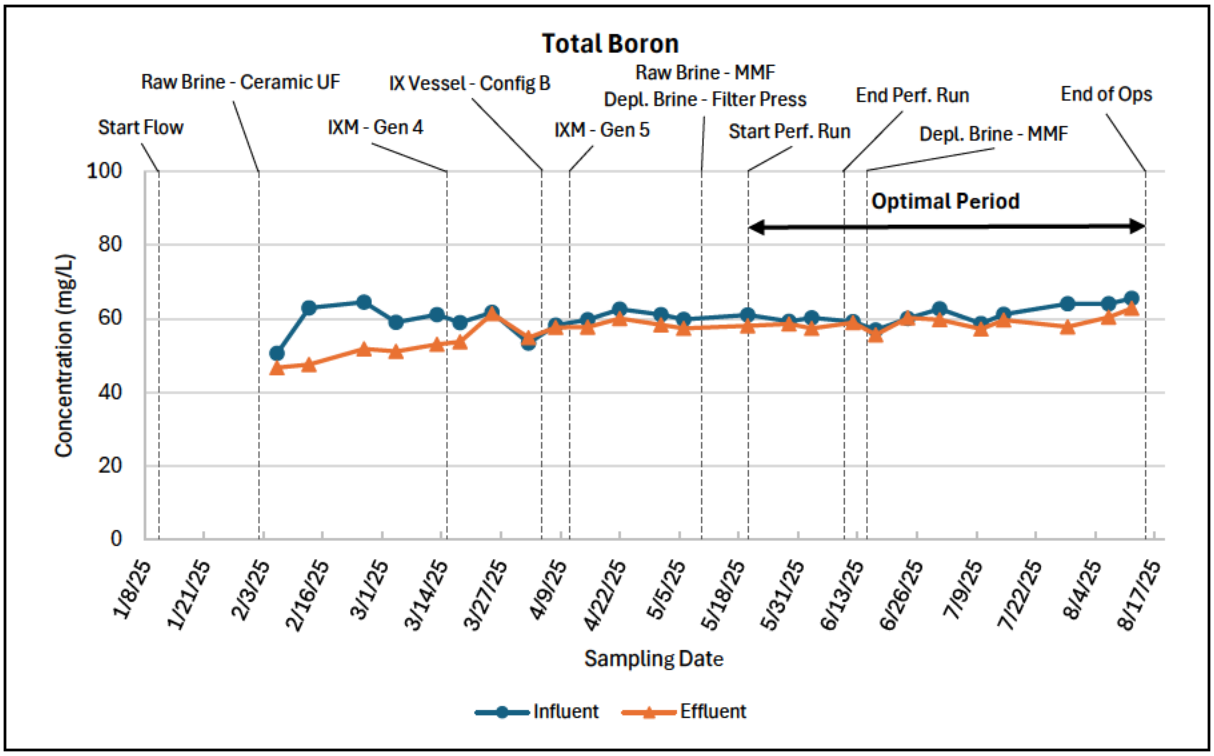
Brine Influent and Brine Effluent Constituents Plot:

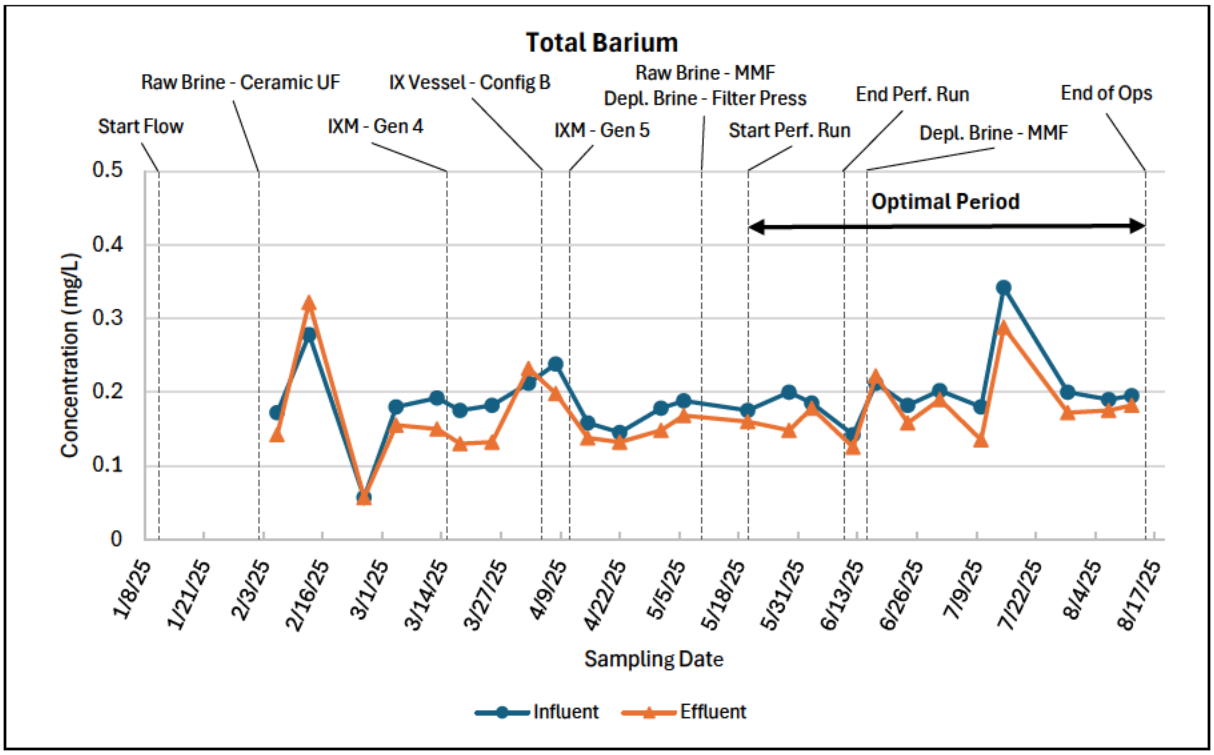
The demonstration plant "Optimal Period" used to inform the commercial plant design spans from the start of the 21-day performance run (Week 16, May 20th 2025) through the end of operations (Week 28, August 15th 2025). For analytical results reported as non-detect (ND), the method detection limit (MDL) was used for plotting purposes. Constituents that were reported as non-detect for the sampling campaign were not plotted.

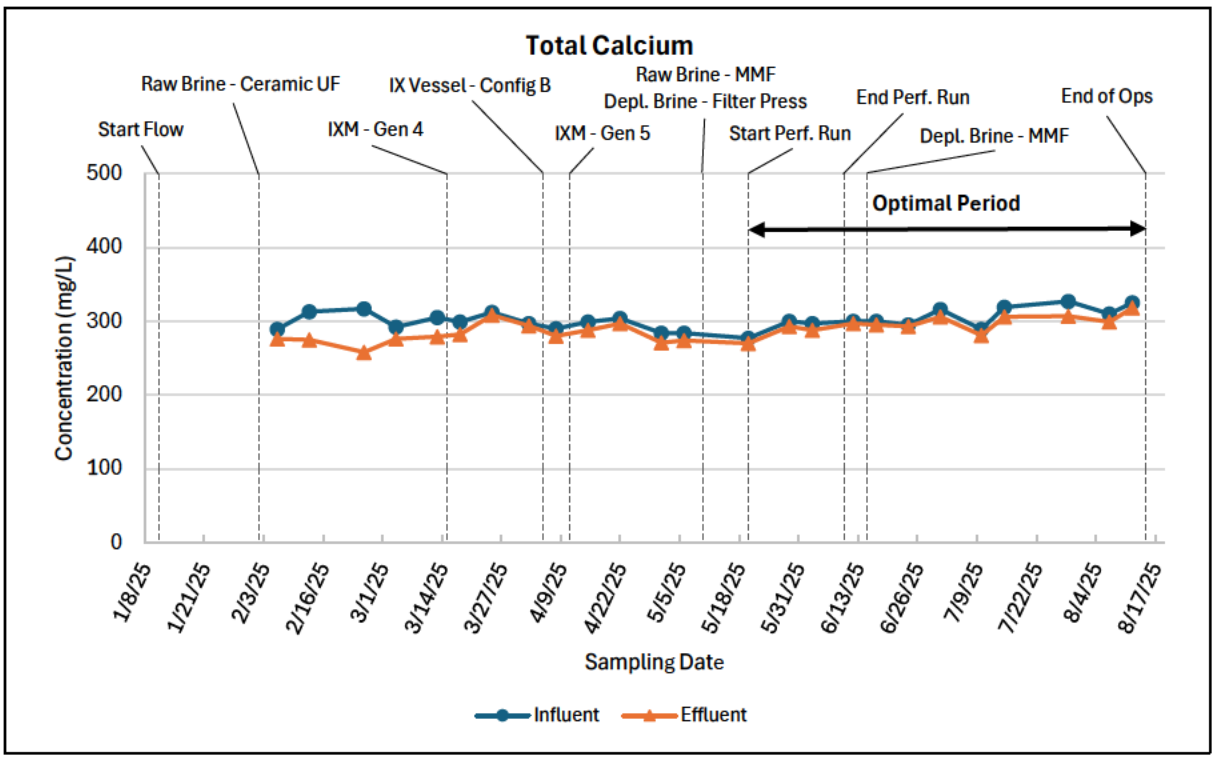

pH
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
pH
14
12
10
8
6
4
2
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

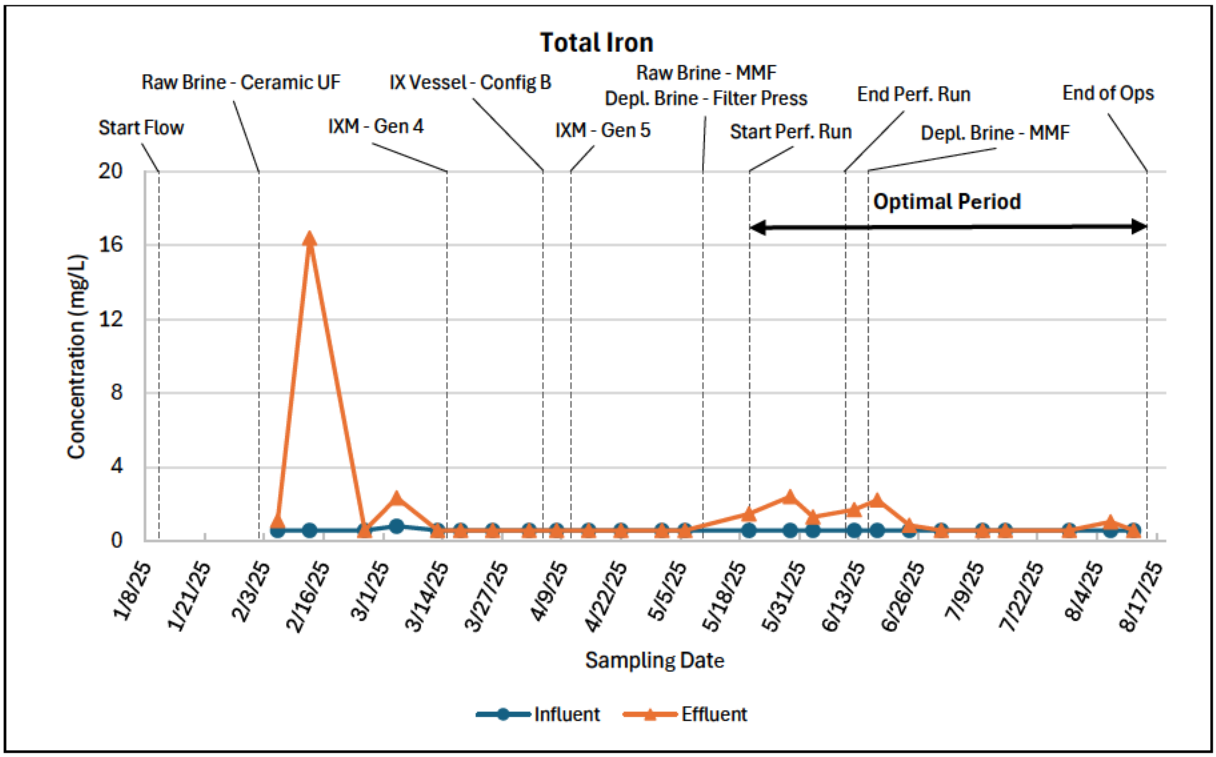

Total Mercury
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (ng/L)
300
250
200
150
100
50
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

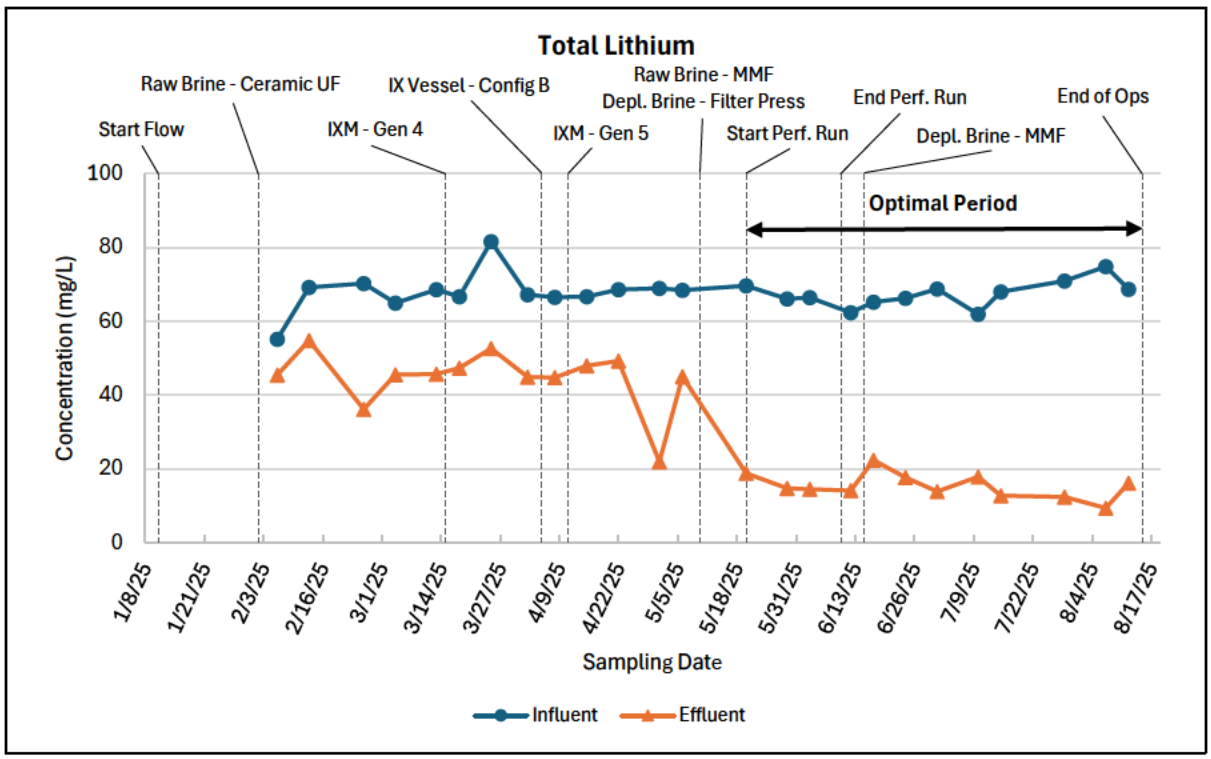

Total Aluminum
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
0
2
4
6
8
10
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

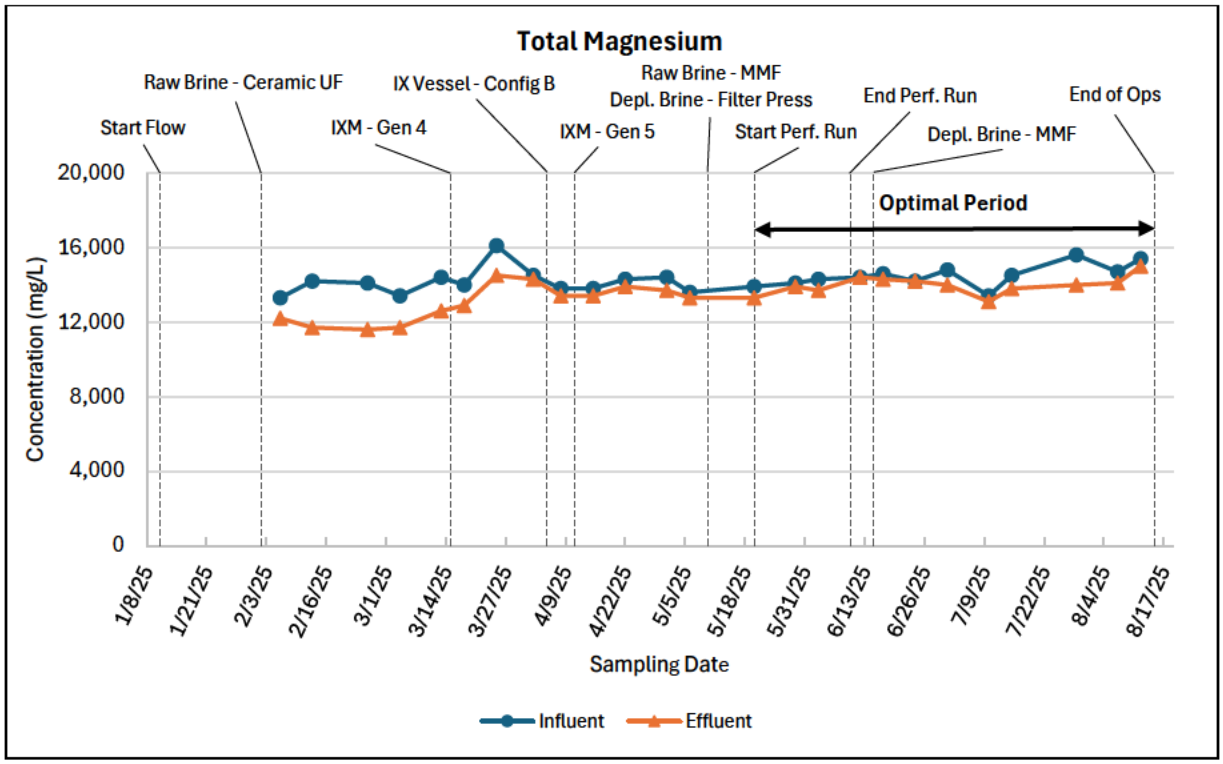

Total Boron
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
0
20
40
60
80
100
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

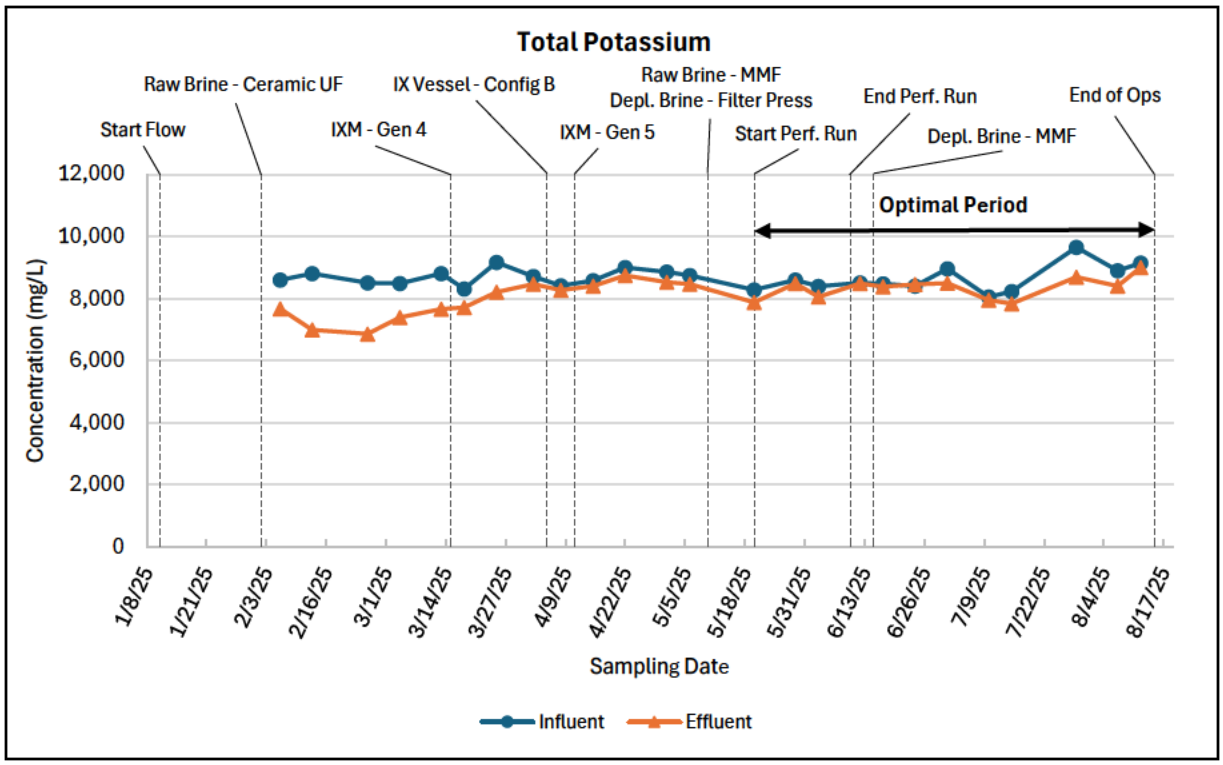

Total Barium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.1
0.2
0.3
0.4
0.5
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

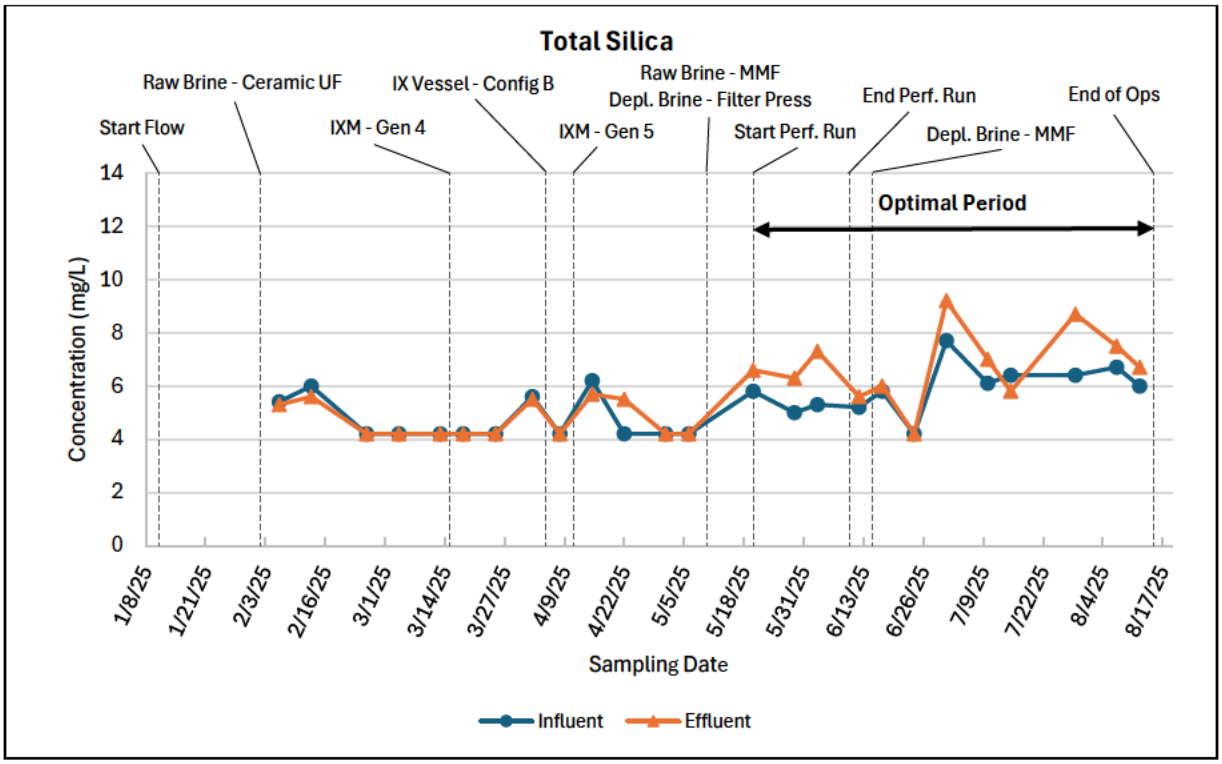

Total Calcium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
100
200
300
400
500
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

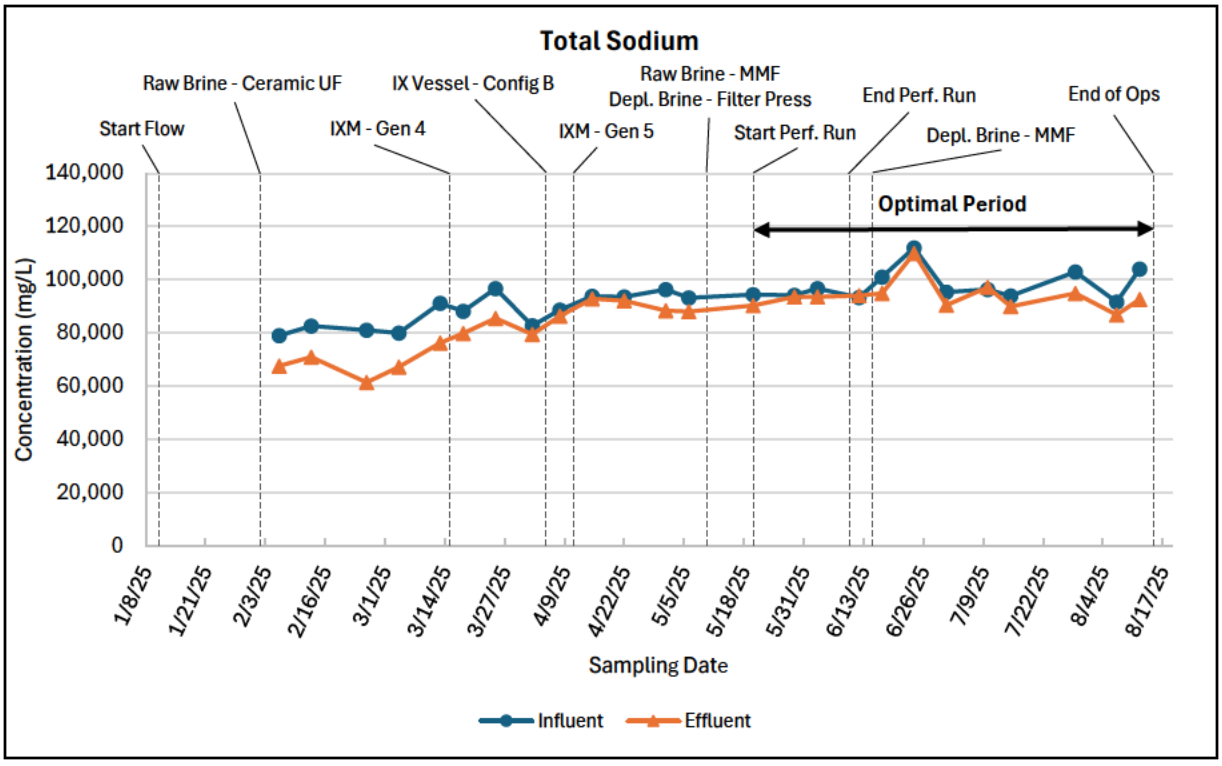

Total Iron
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
20
16
12
8
4
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

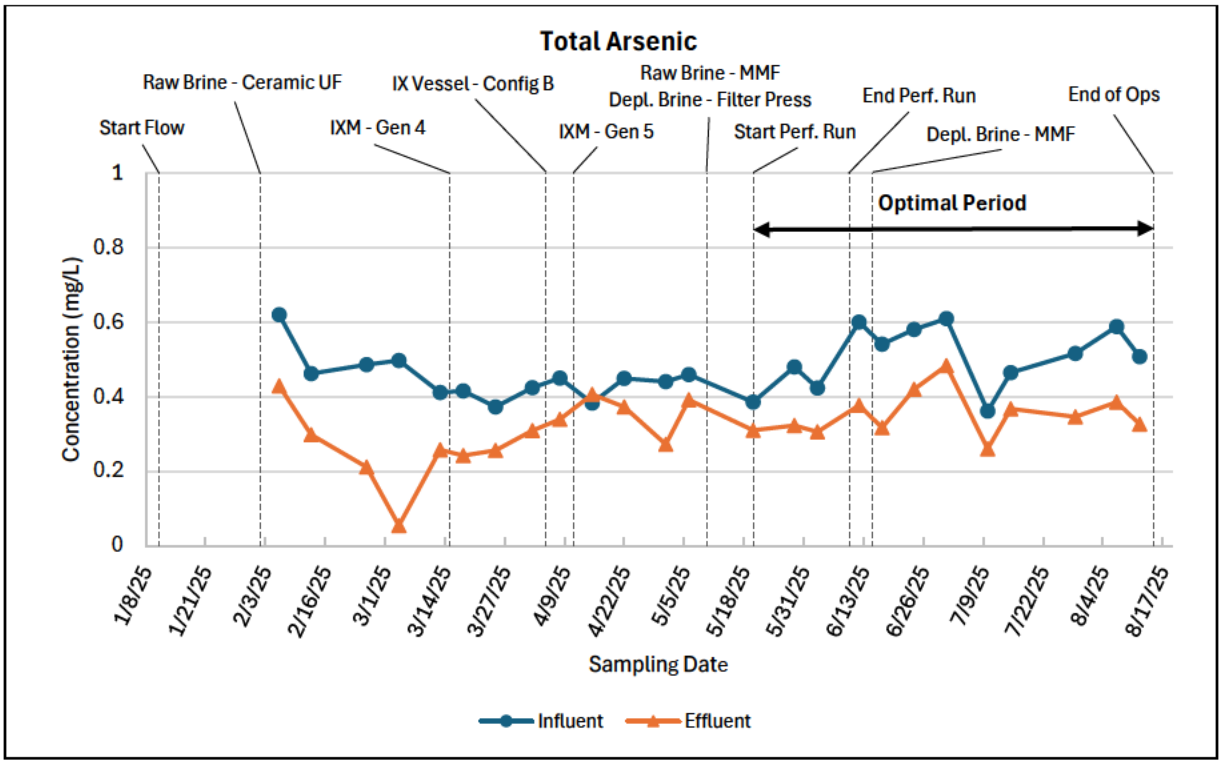

Total Lithium
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
100
80
60
40
20
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

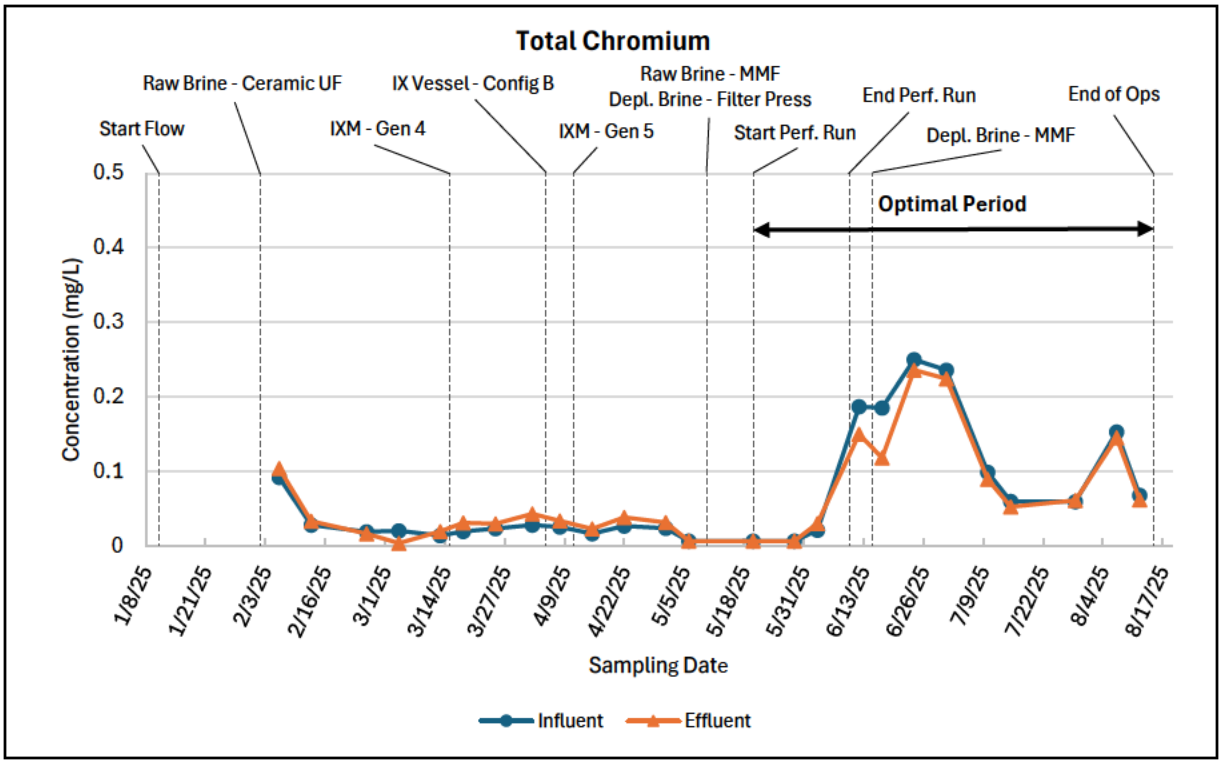

Total Magnesium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
20,000
16,000
12,000
8,000
4,000
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

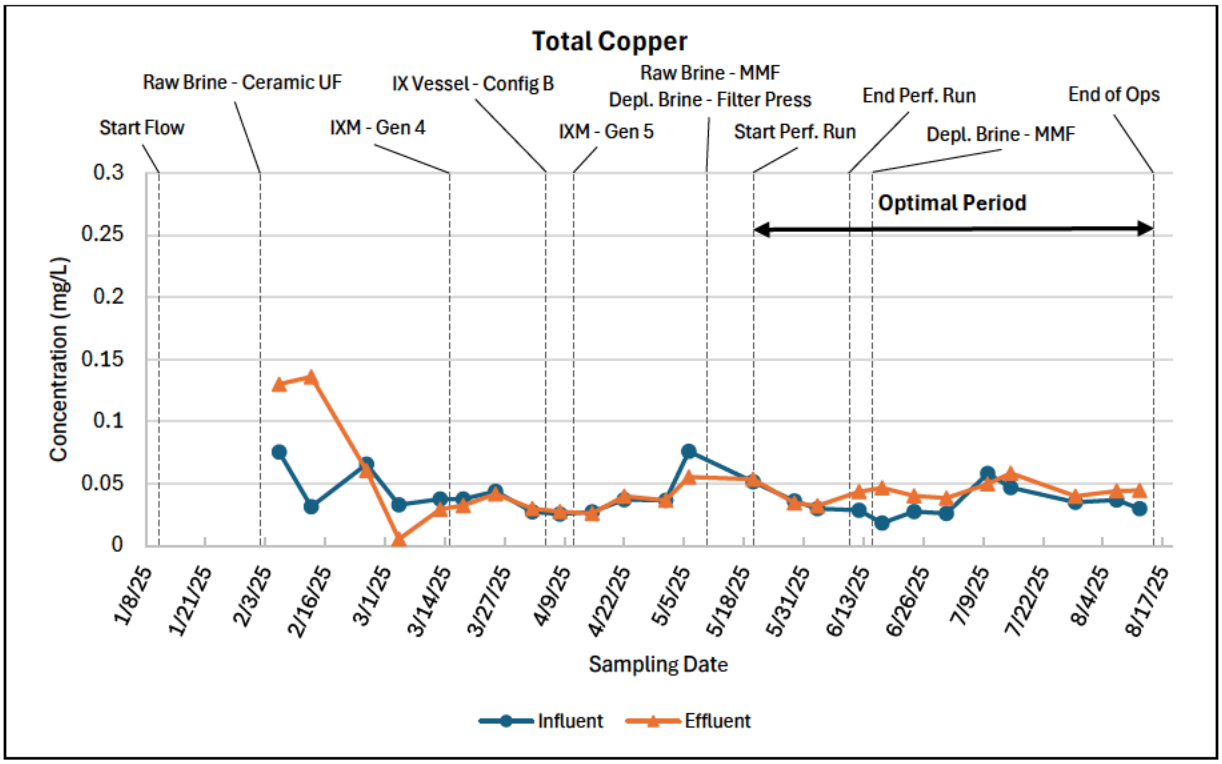

Total Potassium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
12,000
10,000
8,000
6,000
4,000
2,000
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

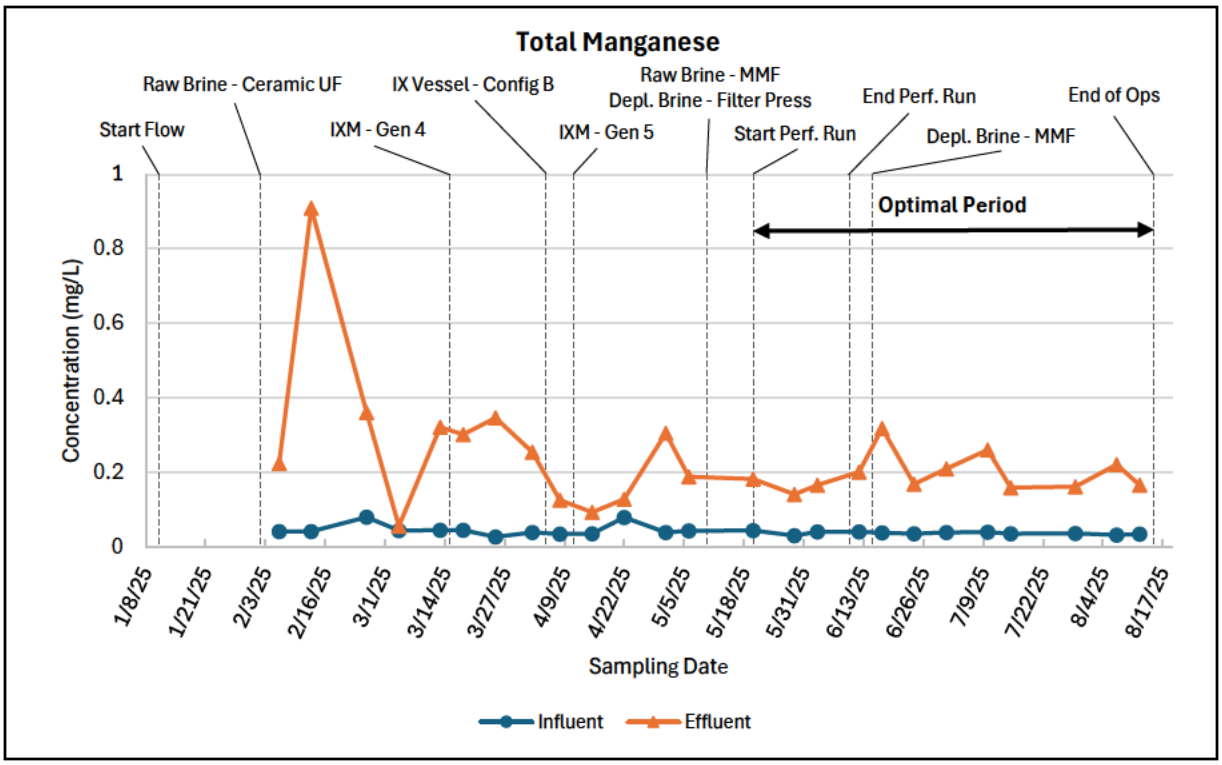

Total Silica
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
2
4
6
8
10
12
14
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

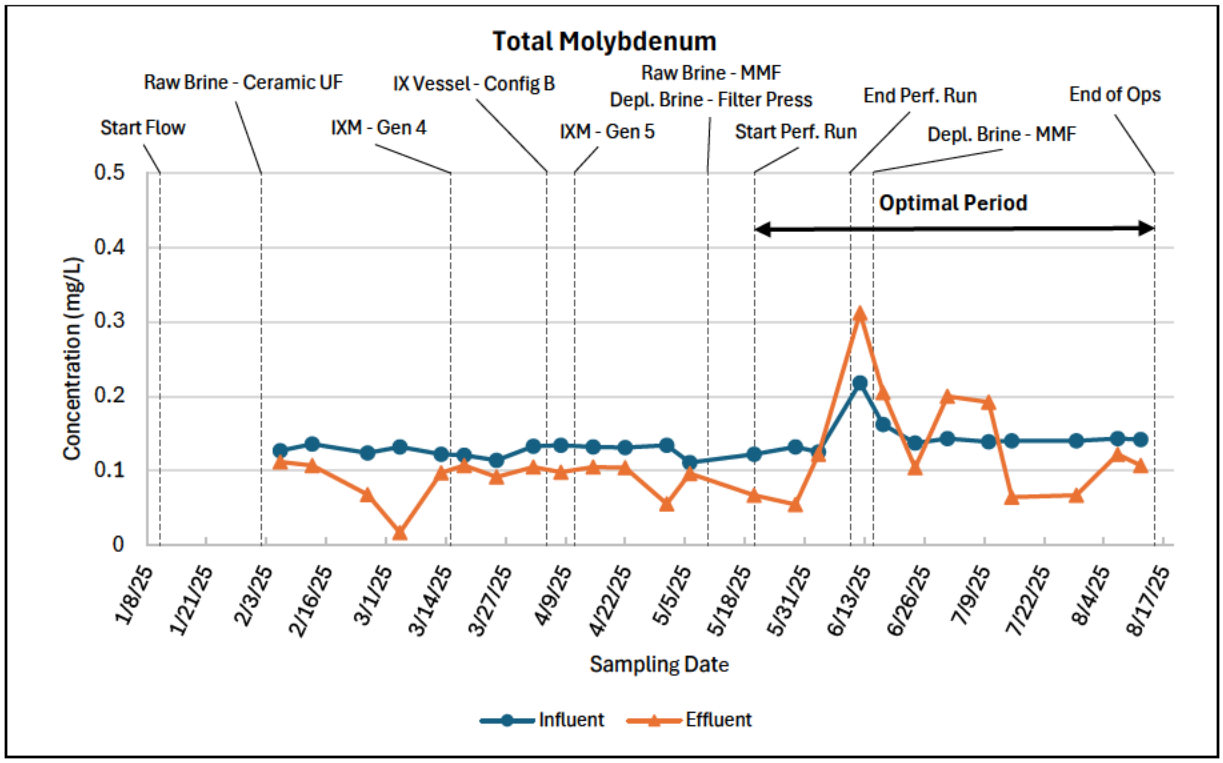

Total Sodium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

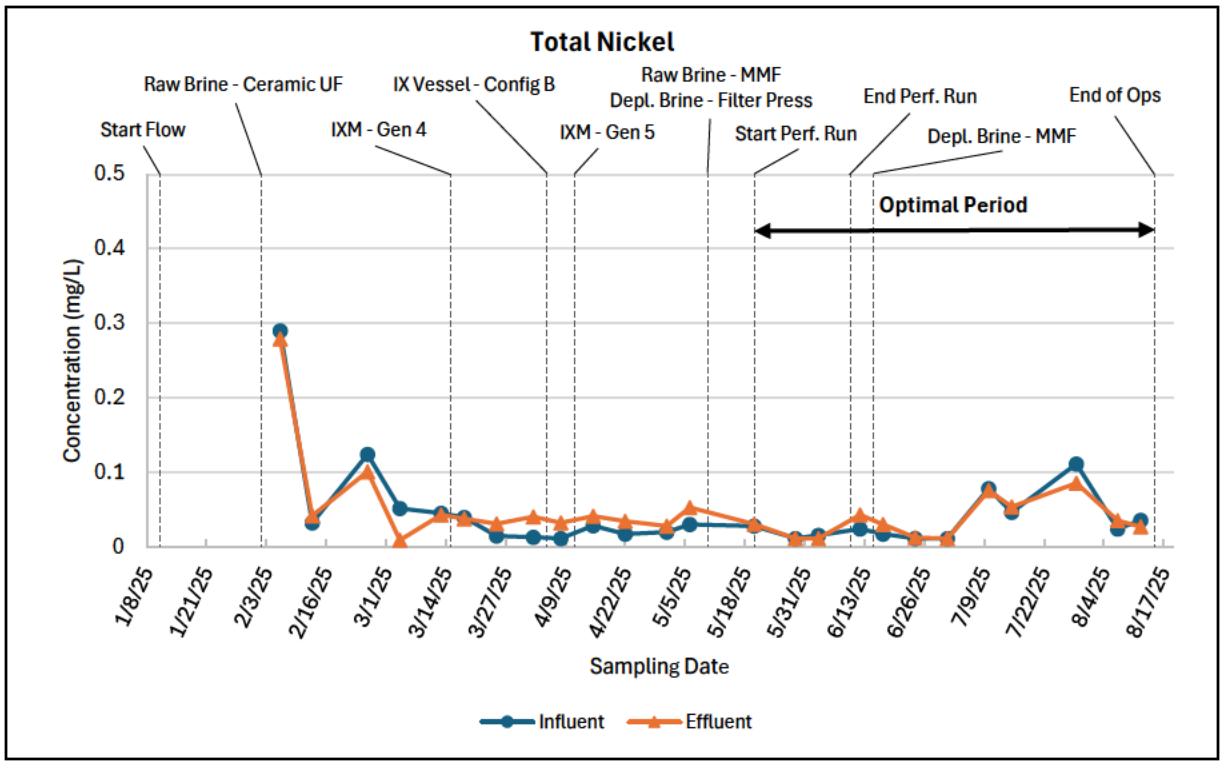

Total Arsenic
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.2
0.4
0.6
0.8
1
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

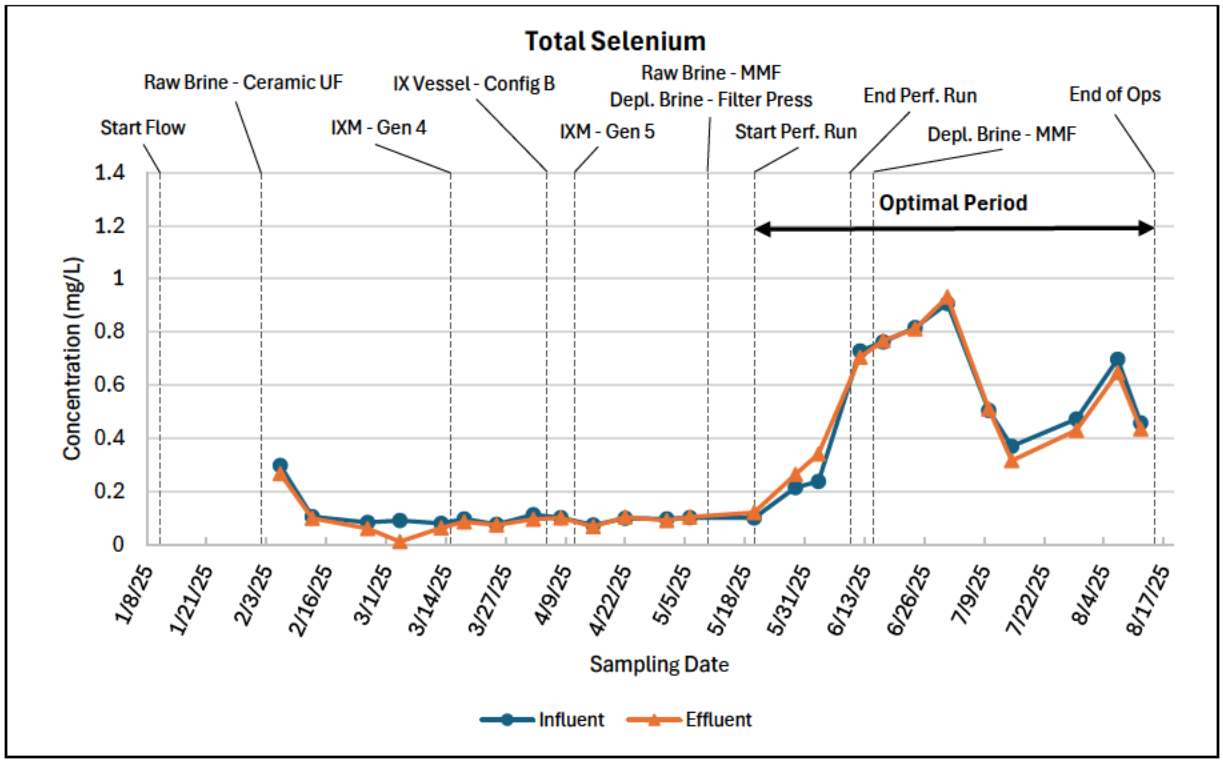

Total Chromium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.1
0.2
0.3
0.4
0.5
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

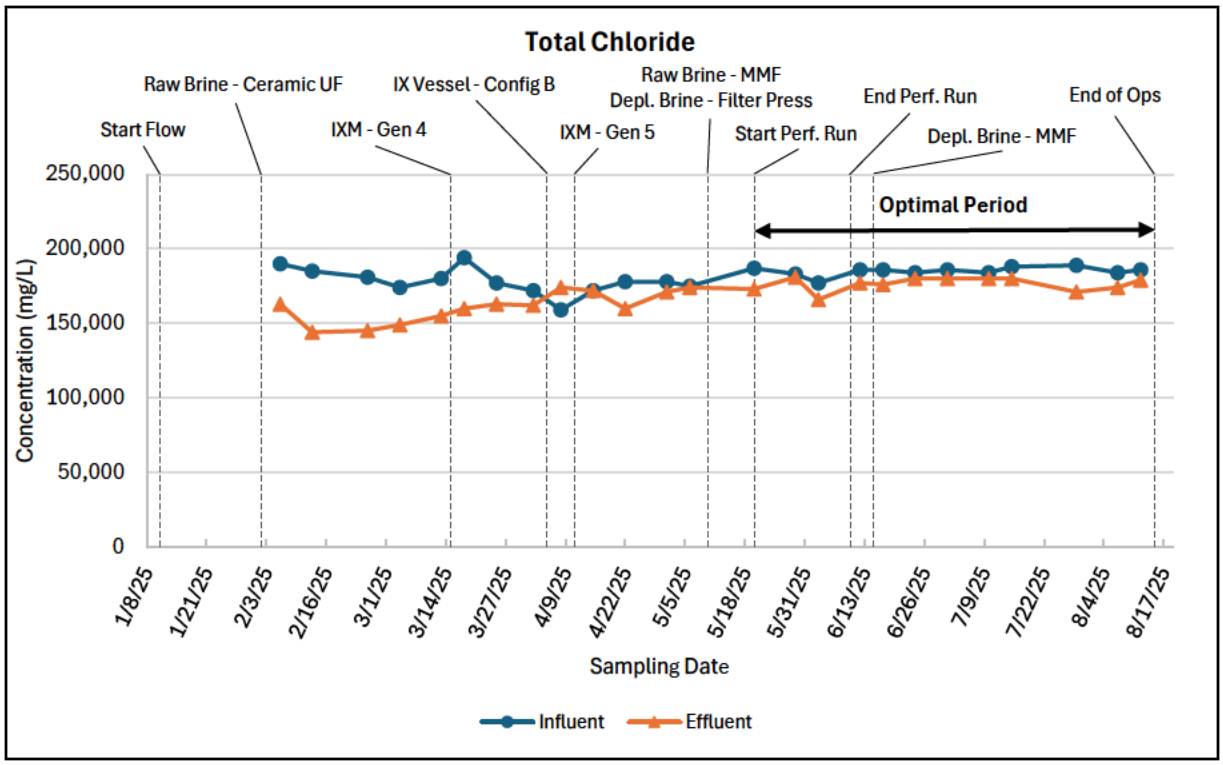

Total Copper
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

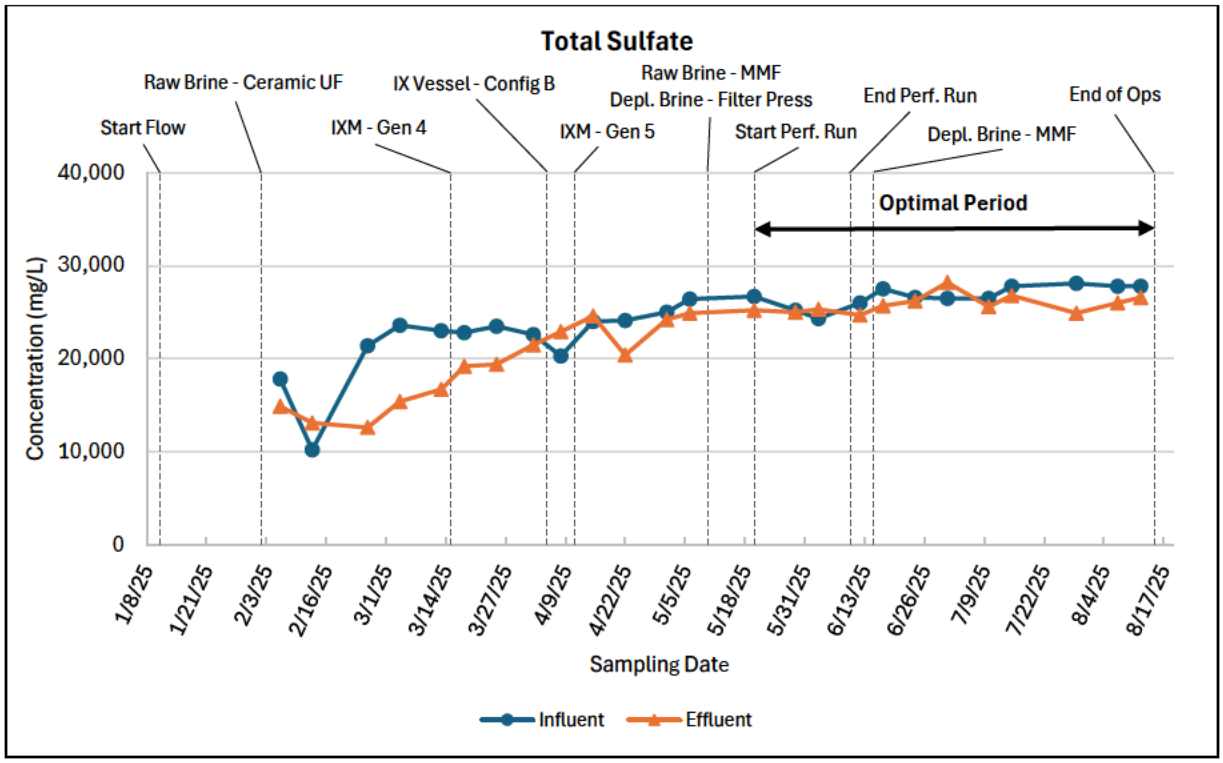

Total Manganese
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
1
0.8
0.6
0.4
0.2
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

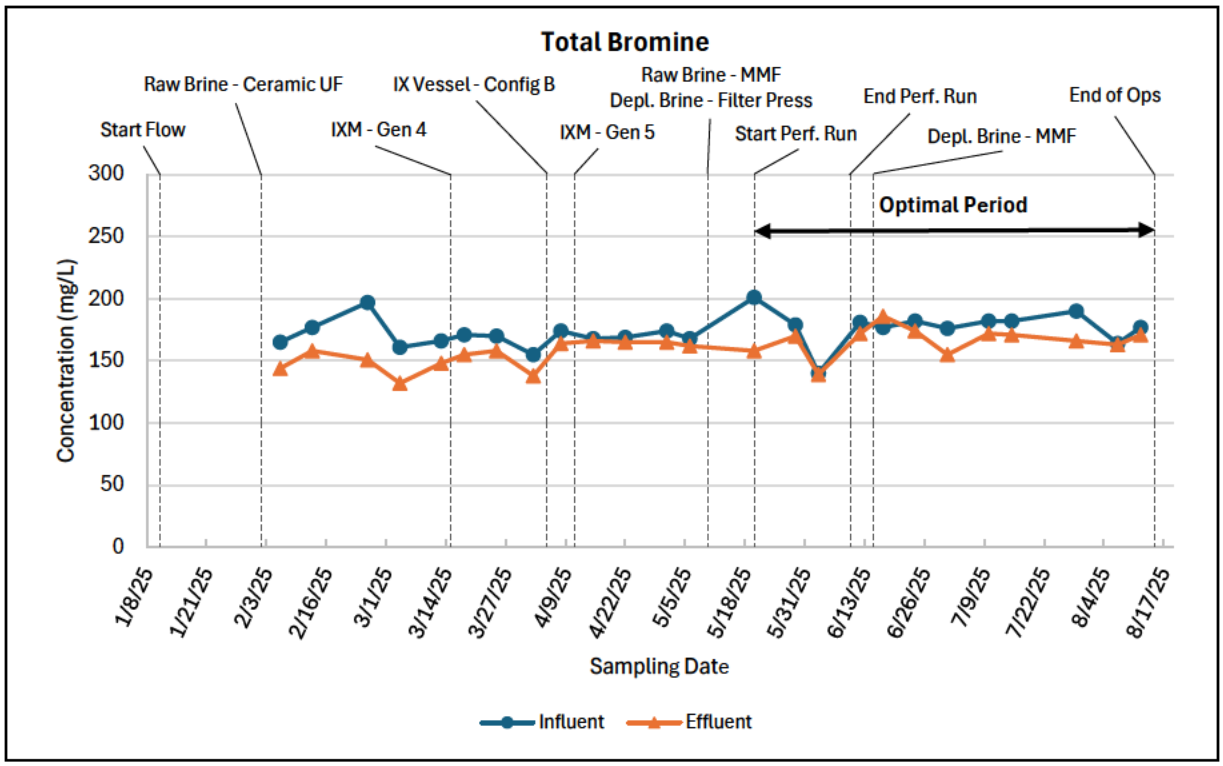

Total Molybdenum
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.1
0.2
0.3
0.4
0.5
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

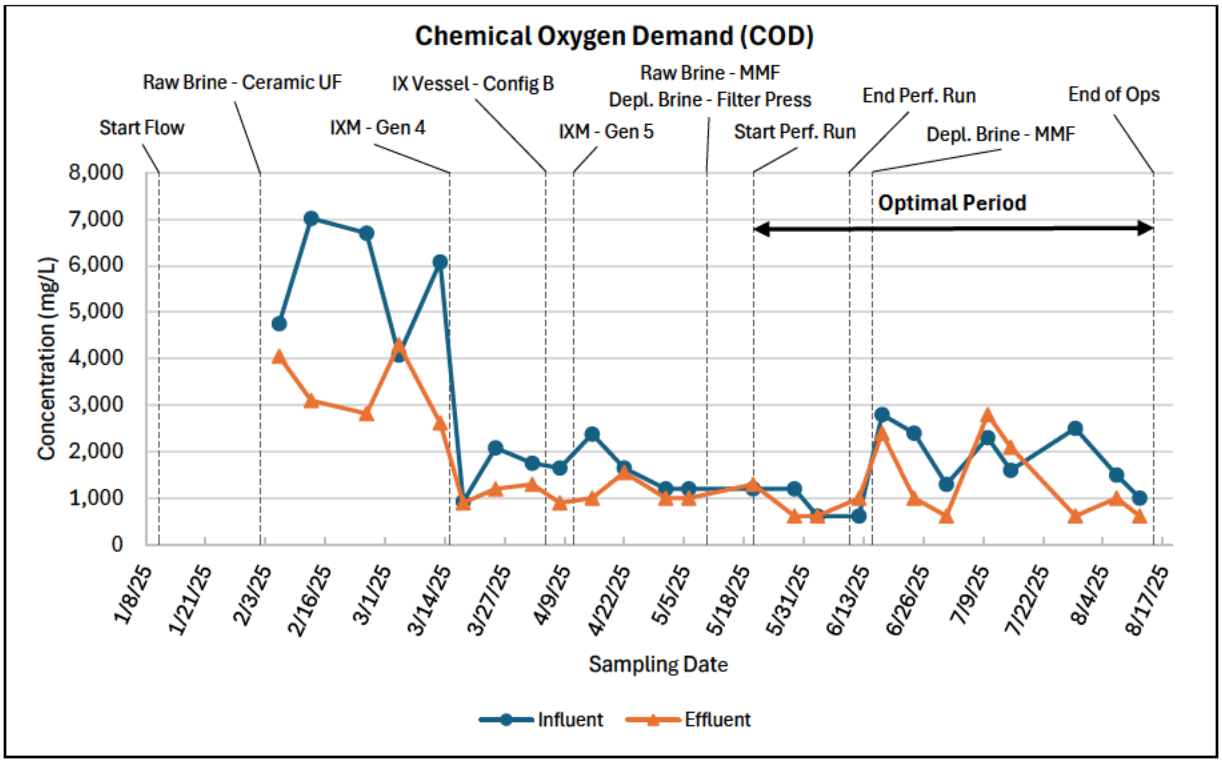

Total Nickel
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.1
0.2
0.3
0.4
0.5
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

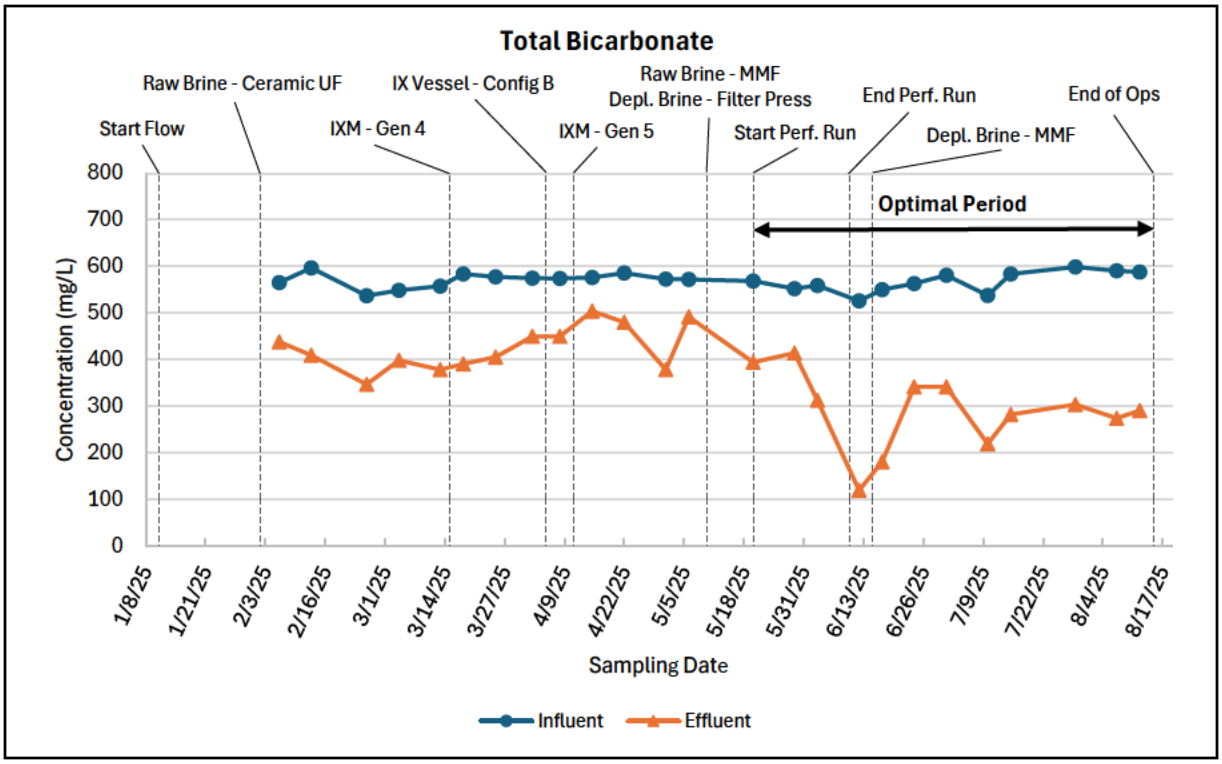

Total Selenium
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

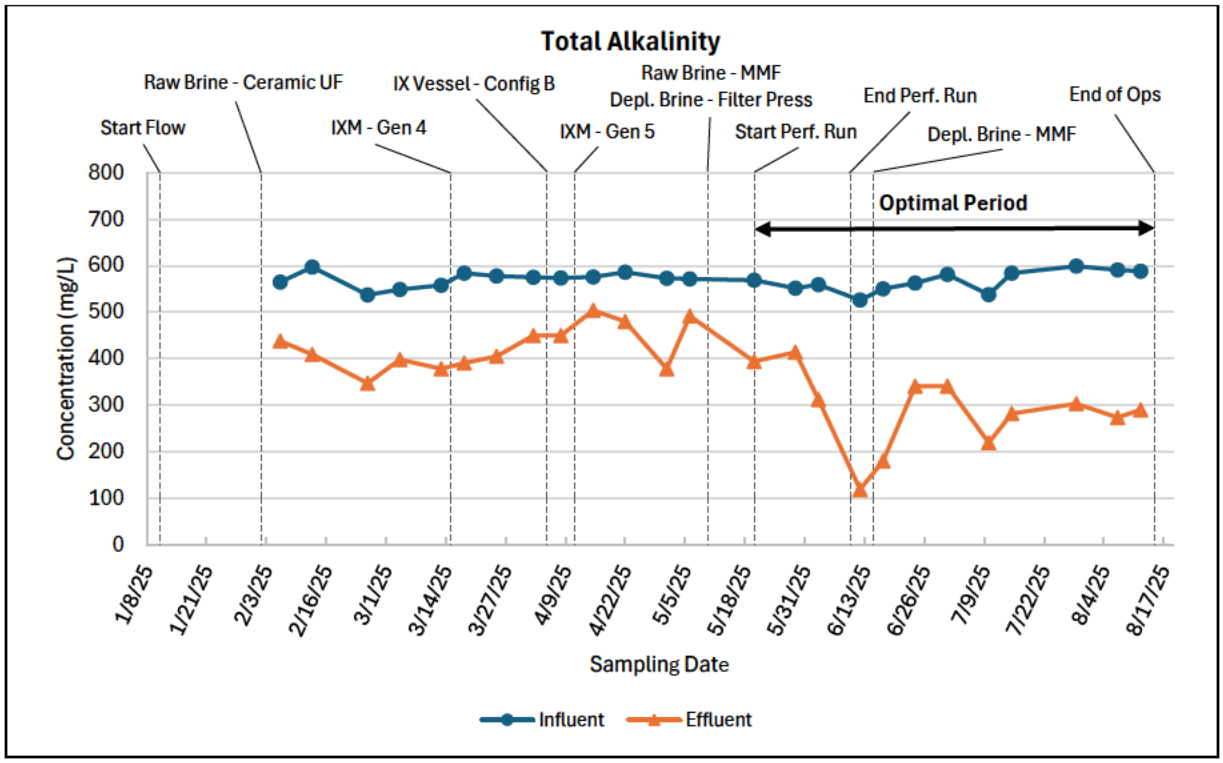

Total Chloride
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
50,000
100,000
150,000
200,000
250,000
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

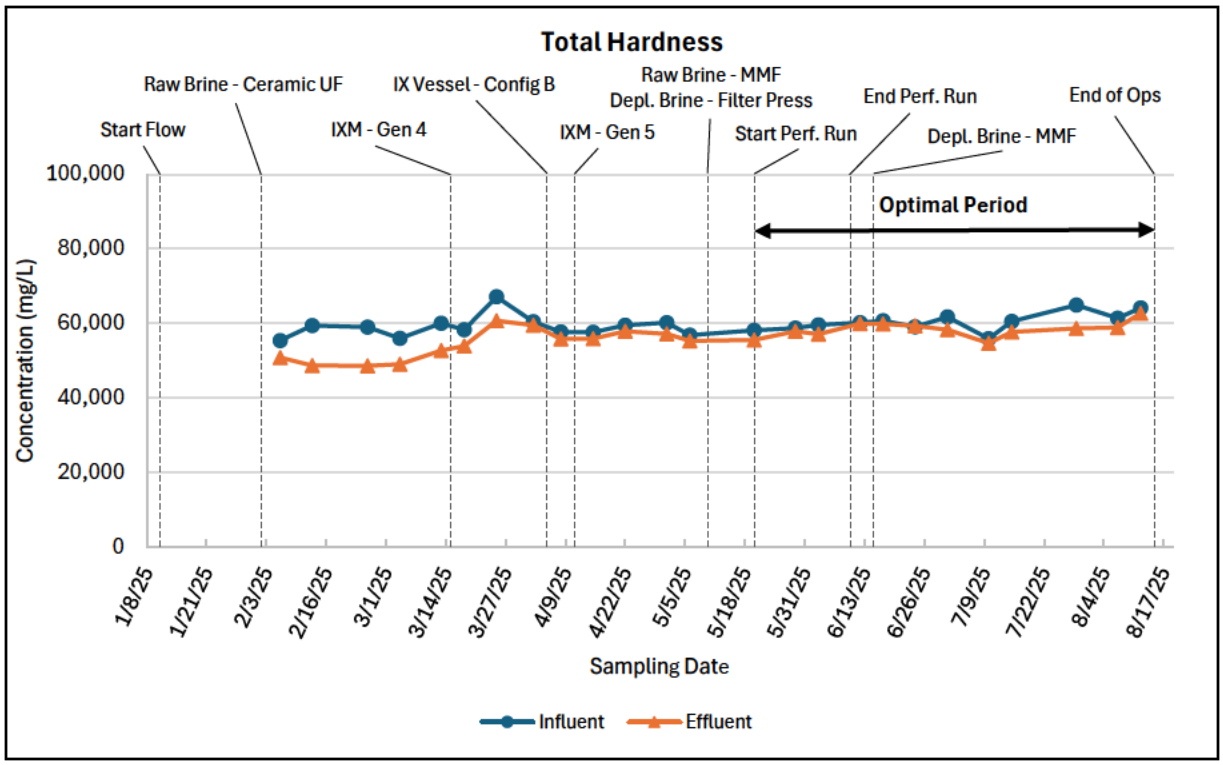

Total Sulfate
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
40,000
30,000
20,000
10,000
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

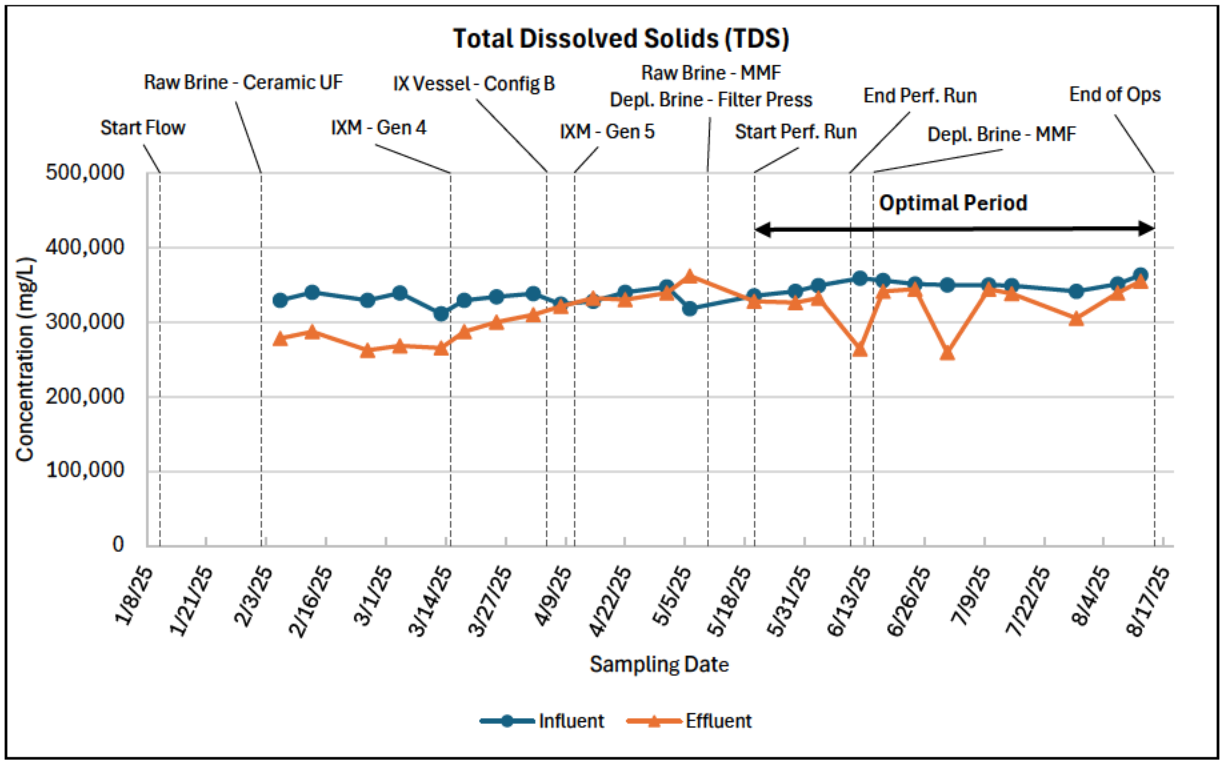

Total Bromine
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
300
250
200
150
100
50
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

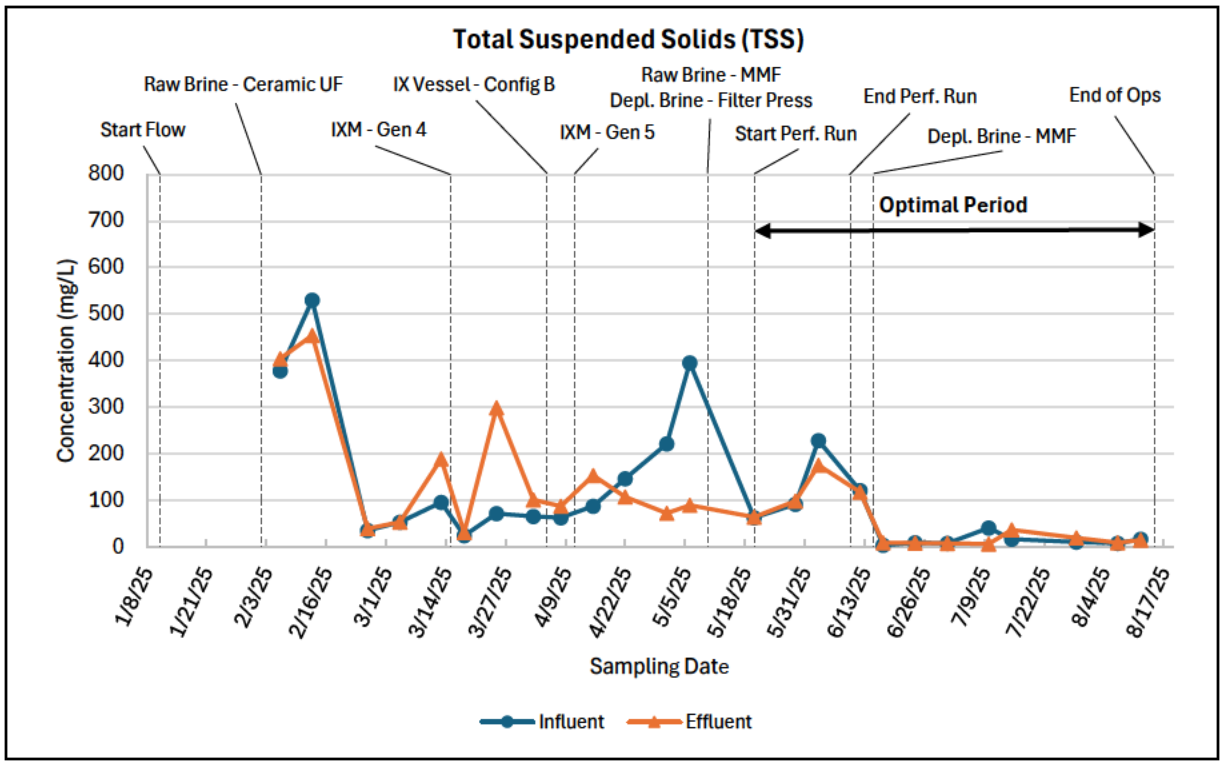

Chemical Oxygen Demand (COD)
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

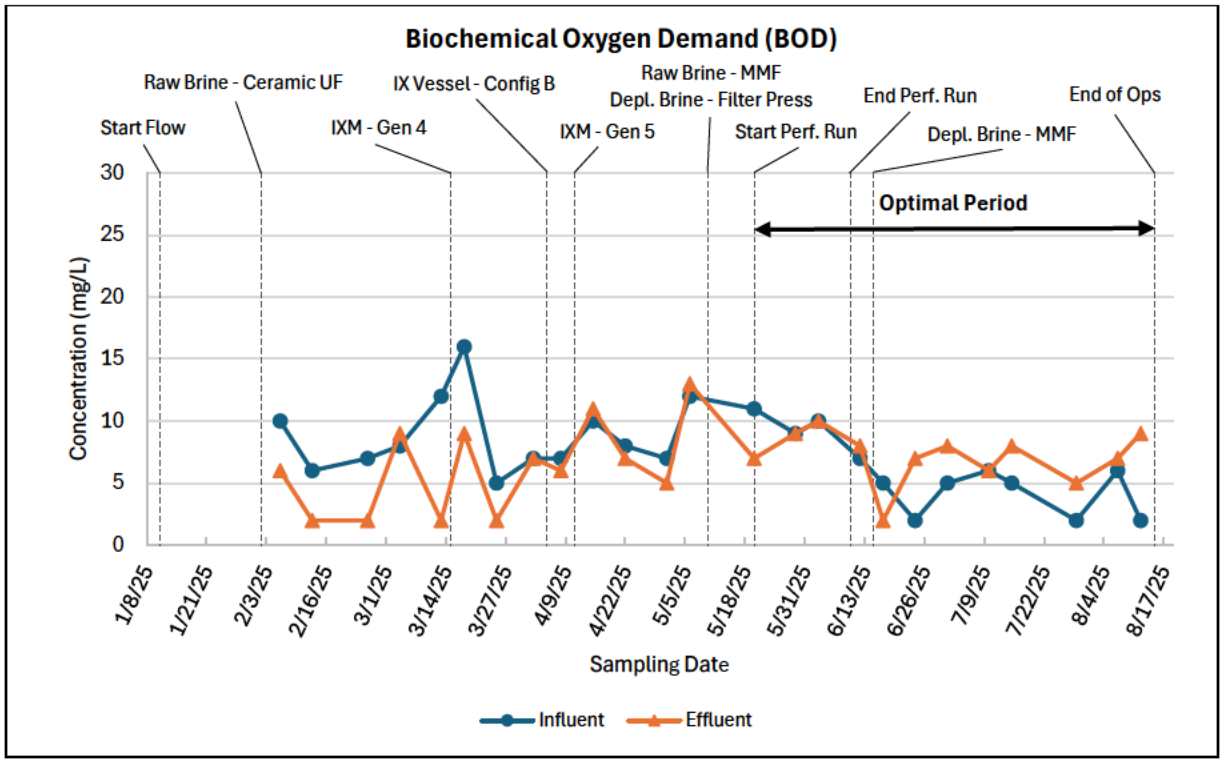

Total Bicarbonate
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
800
700
600
500
400
300
200
100
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent


Total Alkalinity
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
100
200
300
400
500
600
700
800
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent


Total Hardness
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
20,000
40,000
60,000
80,000
100,000
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent


Total Dissolved Solids (TDS)
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
500,000
400,000
300,000
200,000
100,000
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent


Total Suspended Solids (TSS)
Raw Brine - Ceramic UF
IX Vessel - Config B
Raw Brine - MMF
Depl. Brine - Filter Press
End Perf. Run
End of Ops
Start Flow
IXM - Gen 4
IXM - Gen 5
Start Perf. Run
Depl. Brine - MMF
Optimal Period
Concentration (mg/L)
800
700
600
500
400
300
200
100
0
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent


Biochemical Oxygen Demand (BOD)
Start Flow
Raw Brine - Ceramic UF
IXM - Gen 4
IX Vessel - Config B
IXM - Gen 5
Raw Brine - MMF
Depl. Brine - Filter Press
Start Perf. Run
End Perf. Run
Depl. Brine - MMF
End of Ops
Optimal Period
Concentration (mg/L)
0
5
10
15
20
25
30
1/8/25
1/21/25
2/3/25
2/16/25
3/1/25
3/14/25
3/27/25
4/9/25
4/22/25
5/5/25
5/18/25
5/31/25
6/13/25
6/26/25
7/9/25
7/22/25
8/4/25
8/17/25
Sampling Date
Influent
Effluent

APPENDIX J

Commercial Facility Mass Balance Analyses

The enclosed application contains information that is held by Waterleaf Resources, LLC ("Waterleaf") as confidential business information and/or trade secrets that are not available to the general public. Waterleaf requests that the Division of Water Quality (the “Division”) treat the application and associated data as protected under the Section 305 of the Utah Government Records Access Management Act (“GRAMA”) due to their nature as business/confidential records. Waterleaf seeks business confidentiality because the business of direct lithium extraction (“DLE”) from brine is highly competitive, with multiple technology providers competing in a rapidly evolving technology space, and a limited number of project locations. Disclosure of the information provided would potentially enable competitors in the DLE space to take advantage of Waterleaf’s proprietary work to obtain a cost advantage, and potentially reverse-engineer parts of the DLE process. Were the Division to permit public disclosure of Waterleaf’s confidential information/trade secrets, Waterleaf would be less likely to provide such information to the Division in the future, or to proceed with further interaction with the Division. This paragraph constitutes the concise statement of reasons for classifying the records as protected as provided in Section 309 of GRAMA.

D.4 Commercial Plant Mass Balance

PURPOSE

The purpose of this appendix is to document the mass balance developed for the proposed commercial facility based on design-basis assumptions.

CONTENTS SUMMARY

This appendix presents the commercial-scale mass balance for the proposed Project, including brine intake and discharge, lithium recovery, reagent consumption, intermediate process streams, product output, and solid and liquid waste streams. The mass balance is based on Pilot results, process design criteria, and engineering assumptions and is used to demonstrate internal consistency of process flows and alignment with waste management, discharge, and resource sustainability evaluations presented in the application.

REFERENCED IN MAIN APPLICATION

- Section 1.3
- Section 4 (multiple)
- Section 5.3 (multiple)

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D.4 begins on next page