Official Draft Public Notice Version **March 19, 2026**
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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Fact Sheet and Statement of Basis DRAFT
Class V Area Permit Renewal and Modification
Underground Injection Control Permit Number UTU-03-AP-173E18B
March 2026

Brigham City Corporation
PO Box 1005
Brigham City, Utah 84302

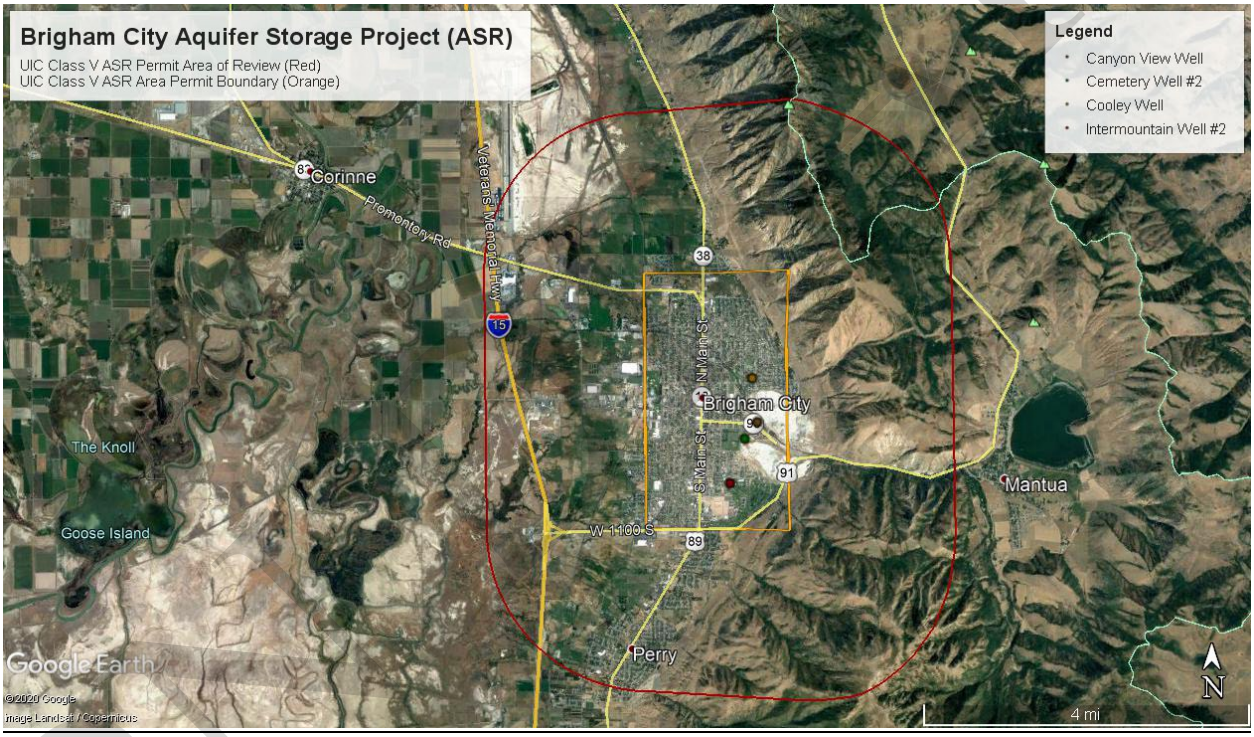

Figure 1. Brigham City UIC Class V Permit Area and Aquifer Storage and Recovery Wells.

Location: **Box Elder County, Utah**	**Operator:** **Brigham City Corporation**
Facility Contact: **Shaun Bess** **Water Dept. Foreman** **980 W. Forest St.** **Brigham City, UT 84302** **sbess@bcutah.gov** **Tel. (435) 730-4478**	**Regulatory Contact:** **Porter Henze** **Utah Department of Environmental Quality** **Division of Water Quality** **UIC Program** **195 North 1950 West** **Salt Lake City, UT 84116** **pkhenze@utah.gov** **Tel. (385) 566-7799**

I. Purpose of the Statement of Basis and Fact Sheet

Pursuant to Section §144.39 of the Underground Injection Control ("UIC") regulations in Title 40 of the Code of Federal Regulations (CFR), which is incorporated by reference in the Utah UIC Administrative Rules (R317-7), the purpose of this fact sheet is to briefly describe the principal facts and considerations that went into preparing a permit renewal for the Brigham City Aquifer Storage and Recovery (ASR) Class V Permit ("Permit") by the Division of Water Quality ("Division"), the UIC permitting authority. To meet these objectives, this fact sheet contains a description of the permitted facility, a description of the injectate, information on the permitting process, and a statement of basis for permit modifications. This Permit was drafted under UIC permit regulations for Class V injection wells associated with recharge wells used to replenish the water in an aquifer; (R317-7-3(3.5)(F) and 40 CFR §146.5(e)(6) by Utah UIC Director authority as incorporated by R317-7-1(1.8)).

II. Brief Description of the Facility

Brigham City Corporation operates an aquifer recharge and recovery system as an integral part of their public water supply system. The purpose of the recharge and recovery system is to inject an excess of 4 to 6 million gallons per day of high-quality water from six (6) Mantua Valley springs located near Mantua (Figure 1) during the winter months for subsequent withdrawal during the high use summer months. The springs from which excess water is taken include the following:

Olsen Spring
West Halling Spring
Peter Jensen Spring
East Halling Spring
Birch Spring
Rock Spring

The spring water is chlorinated prior to injection into the following four (4) production wells:

Cooley Well
Cemetery Well No. 2
Intermountain Well No. 2
Canyon View Well

Under the area permit, additional injection/recovery wells may be constructed within the area bound by:

North Boundary: 1200 North Street
South Boundary: 1100 South Street
West Boundary: 800 West Street
East Boundary: 1200 East Street

III. Site Hydrology[1]

Precambrian and Cambrian age rocks of the Wasatch Mountains lie east of sedimentary deposits of the Lake Bonneville Basin. The contact between the basement and sedimentary rocks is the Wasatch Fault, which is a normal fault in this segment.

Brigham City lies on a broad alluvial fan of sediments eroded from and deposited at the mountain front. The clastic formation is coarse and angular near the mountain front and becomes finer-grained westward into the basin.

Groundwater at and south of Brigham City is found in Pliocene and Pleistocene age alluvial deposits, up to several hundred feet of saturated and highly-permeable unconsolidated basin-fill gravel and sand. Total dissolved solids (TDS) concentration of the groundwater is low near the mountains, but the water becomes more mineralized toward the west and with depth.

The water quality from the springs that is injected into the alluvial aquifer is generally a Class I water with an average TDS value of 230 mg/l. Concentrations of dissolved trace metals are very low. Arsenic concentrations are well below the ground water quality standard of 0.05 mg/l and arsenic was not detected in a 2012 water sample.

IV. Description of Injectate

The injectate is limited to treated spring water originating from Mantua Valley sources, which are chlorinated. The injectate must meet all Federal and State Maximum Contaminant Levels (MCLs) and Groundwater Quality Standards prior to injection. All additives introduced into the stream must meet all Utah Rules for Public Drinking Water systems found in Utah Admin. Code R309-525-11.

V. Information on the Permitting Process

In October of 2025, the Permittee requested to renew their Class V Aquifer Storage and Recovery (ASR) permit (Permit No. UTU-03-AP-173E18B). The Division completed its review of this request on January 7, 2026, and has completed the provisionally approved Draft Permit. The Class V Permit renewal was prepared by the Division for public notice and public comment according to 40 CFR §144.39, which is incorporated by reference by R317-7-1. The notice will be posted in the Box Elder Journal News, a newspaper local to Brigham City. Public comments will be accepted by the Division for 30 days following the first day of public notice.

VI. Statement of Basis for Establishing Permit Conditions

Under Utah Admin. Code R317-7-5(5.1) and Utah Admin. Code R317-7-5(5.5) the Director of the Division ("Director") is authorized to call for a permit for any Class V injection well that may endanger an underground source of drinking water (USDW). The source waters have historically shown the presence of coliform bacteria and the recharge

1 Technical Publication No. 44 of the State of Utah Department of Natural Resources.

area for the source waters may be subject to spills and to discharge of contaminants (e.g. pesticides, herbicides, fire retardants, etc.), thus it is the determination of the Director that the ASR project and well described above requires a UIC Class V permit. The Utah Underground Injection Control (UIC) Class V permit is based on the following restrictions to ensure compliance with state and federal UIC Program rules and regulations and Utah Ground Water Quality Protection Program rules and regulations.

a. Permit Conditions

Part I of the Permit is the Authorization to Construct and Inject. Part II includes all general permit conditions required in all UIC permits with the focus on Class V permits. Part III contains all of the specific permit conditions required of all Class V ASR wells.

i. Standard Operating Procedures Plan

Brigham City has submitted an injection well Operating Plan (Permit Attachment C) that meets the requirements of Part III.E of this Permit.

ii. Monitoring, Testing, and Reporting

Injectate Characterization - Once a quarter, the source of the injectate will be analyzed for an abbreviated suite of parameters that include those constituents of concern and those constituents that have historically been detected. The monitoring parameter list and monitoring schedule are detailed in Attachment B.