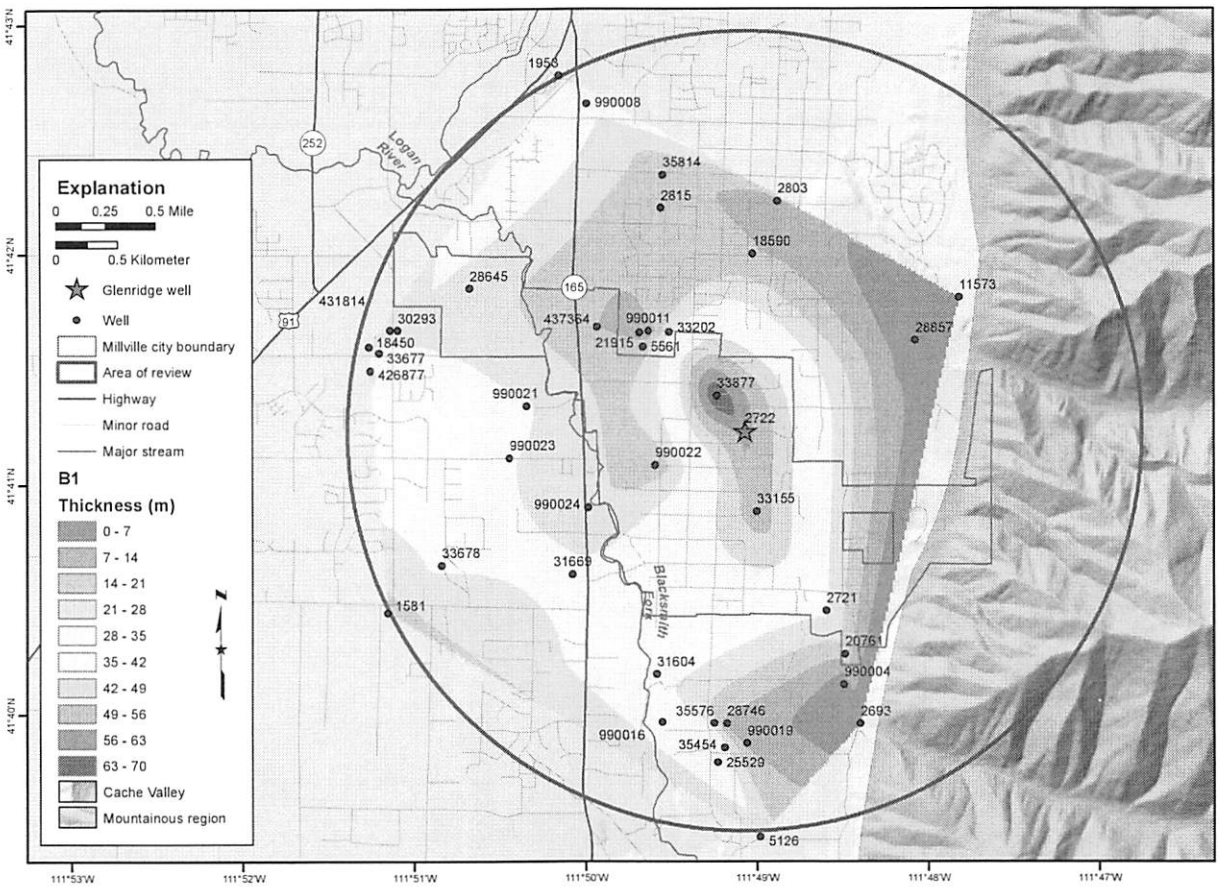

Figure 24. *Thickness of the upper confining unit in the principal aquifer based on interpretation of well logs and cross sections.*

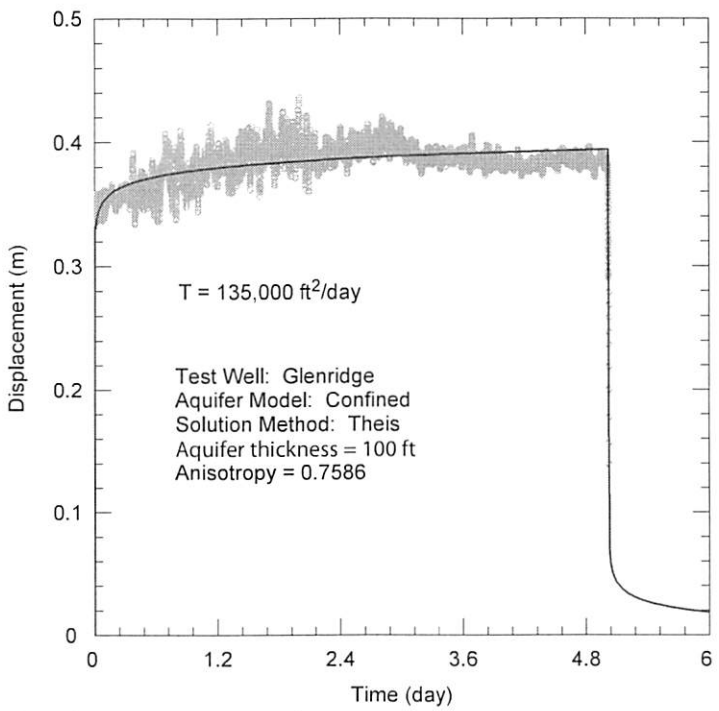

Figure 25. *Aquifer test analysis of post-injection pumping data.*

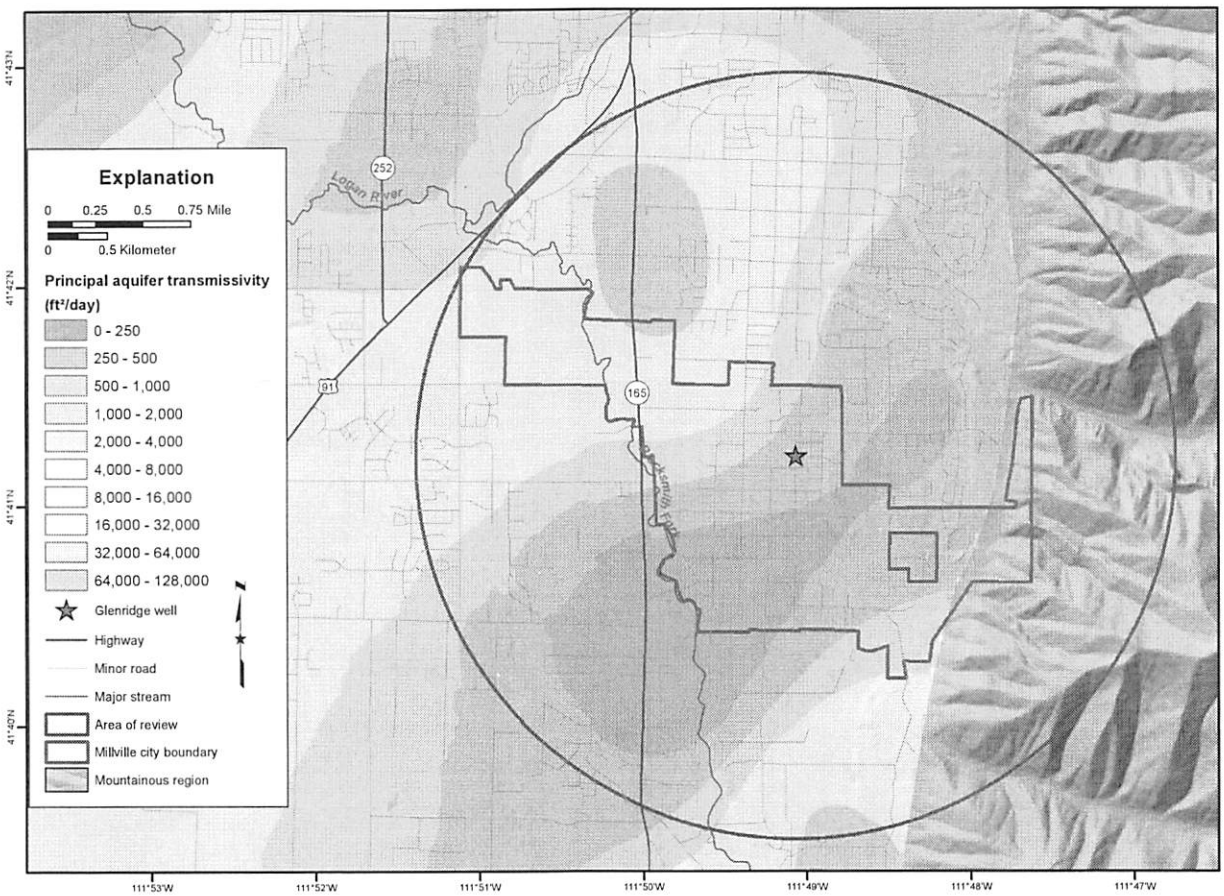

Figure 26. Transmissivity of the Cache Valley principal aquifer (modified from Inkenbrandt, 2010).

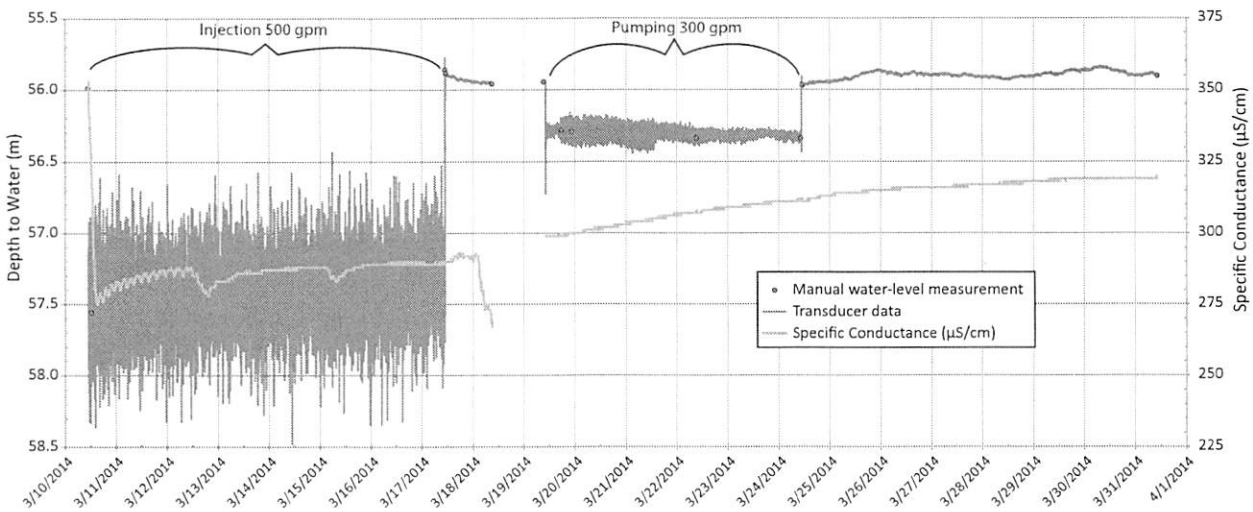

Figure 27. Hydrograph of phase I injection and pumping test of the Glenridge well.

A cone of depression or recharge mound created by a well in a high transmissivity aquifer will exhibit small amounts of potentiometric surface change over a very large area. Based on the transmissivity from the aquifer test using the Glenridge well, injection modeling displays a wide swath of influence. The inference of a relatively small increase in groundwater levels based on high transmissivity is supported by the surrounding monitoring wells, where measured increases where smaller than the noise at the site and precision of the transducers. For Millville to inject its full winter water-right allowance at the current maximum injection rate of 300 gpm (19 L/sec), injection would need to occur from the beginning of October to the end of May the following year (181 days). The maximum increase in potentiometric surface level (i.e., height above the static groundwater level) would be about 0.3 ft near the well after an injection cycle and that increase would be negligible after a post-injection pumping cycle.

Groundwater Flow

Based on the rudimentary modeling, I determined the mean groundwater flow velocity in the vicinity of the Glenridge well to be about 3.3 ft/day (1 m/day) to the northwest. Average velocity for 97 particles surrounding the Glenridge well was a little less than 9.8 ft/day (3 m/day). The combined duration of the pumping and storage of phase II was 233 days, which would put the bulk of the injectate at less than 2300 ft (700 m) from the Glenridge well (not counting dispersion). MODPATH (Pollock, 2012) modeling verified these calculations. The USGS groundwater model (Kariya and others, 1994) indicated that the centroid (high concentration point) of the bubble drifted about 520 ft (158 m) over the duration of storage during phase II, and total bubble drift by October 1, 2015, was 740 ft (226 m) (figure 28).

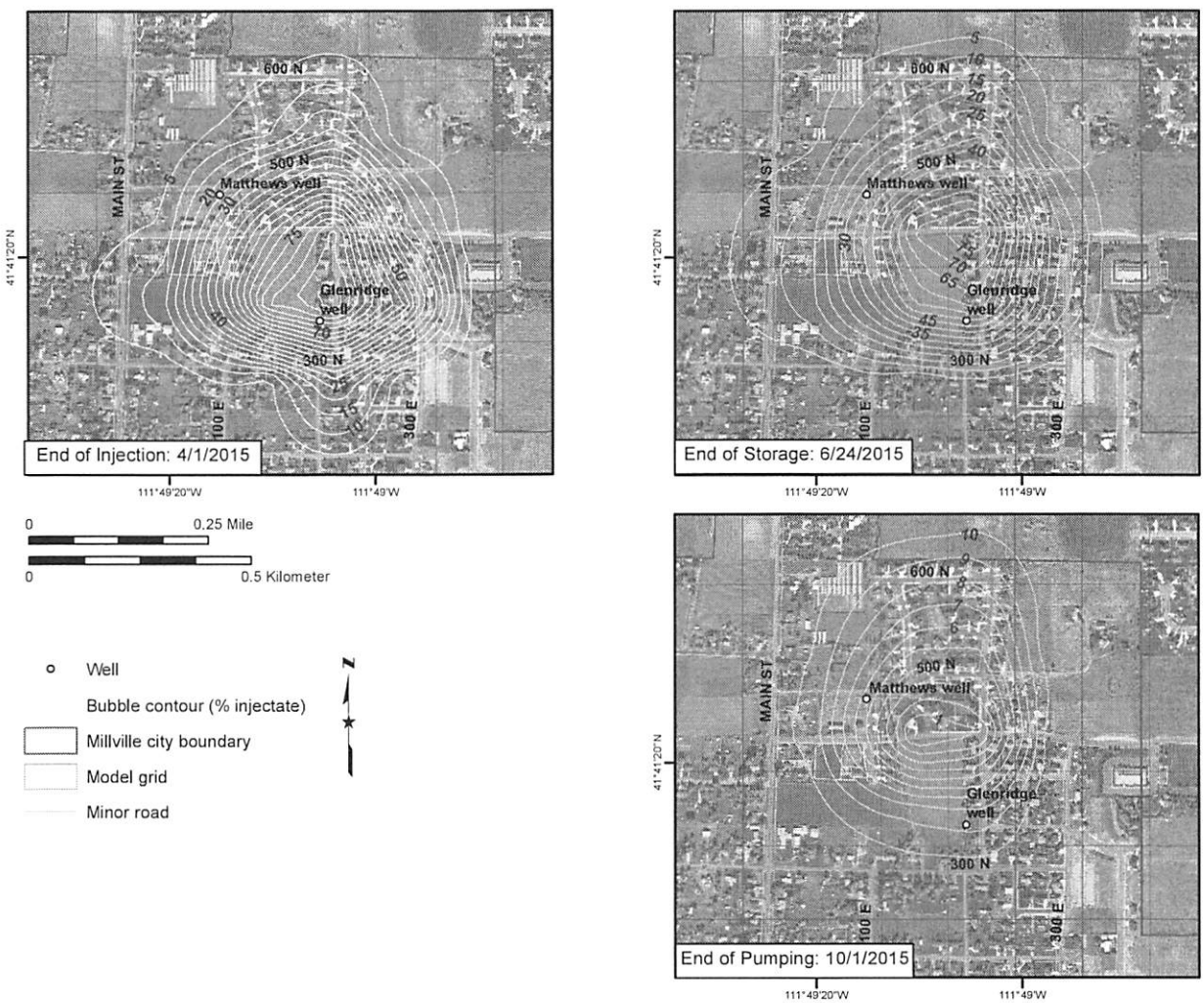

Figure 28. Modeled injectate bubble at different times during phase II. The contours represent percent injectate. Note that the contours are not exactly aligned with the Glenridge well due to offset of the grid cell center from the actual well location.

The direction and magnitude of groundwater flow are dependent on the potentiometric surface. The potentiometric surface map constructed for this study (figure 29; appendix E) indicates a southeast to northwest flow of groundwater (280° ± 35° from north) having a horizontal gradient of 0.002 at the Glenridge well. The potentiometric surface generated from layer one of the USGS model (Kariya and others, 1994) indicates a northwest groundwater flow direction (311°) having a gradient of 0.008. The difference between the two surfaces may be due to pumping influence from Providence City's municipal wells and injection by the Glenridge well, which were not accounted for in the steady state MODFLOW model. Pathlines generated by MODFLOW modeling show that the flow of particles traveling through the aquifer system shift to the north as depth increases, where shallow particles at about 200 feet (61 m) deep have a much more east-west trend than do deeper particles at about 600 feet (183 m) deep.

Because of the high transmissivity of the principal aquifer, induced gradients created by pumping should be small relative to the natural gradient of the aquifer. The maximum drawdown observed in the Glenridge well from the aquifer test was about 1.3 ft (0.4 m). Based on forward modeling of maximum seasonal pumping of all of Providence's wells and injection of the Glenridge well, the additional induced gradient would be 0.0001-0.0004 to the north (figure 30). This modeled gradient is an order of magnitude smaller than the natural gradient of the principal aquifer, and therefore, large amounts of pumping only shift particle tracks slightly to the north.

Induced Seismicity

In some instances, injection of water, especially near active faults, can create induced seismicity (Ellsworth, 2013). Based on examination of quarterly epicenter reports (University of Utah Seismograph Stations, 2015), no measured earthquakes were detected along the East or West Cache faults over the duration of the study (figure 31). There were several small (M<2.0) quakes in the Bear River Range to the east, but they did not correlate to the timing of injection.

SUMMARY

The following summarizes my significant conclusions based on the results of the Millville ASR project.

1. Potentiometric contours, the modified USGS model, and measured nitrate concentrations all suggest that groundwater in the Millville area is flowing from southeast to northwest.
2. The capacity of storage in the Millville ASR system is limited by the diameter of the injection pipe in the Millville well and the volume of water that Millville will pump during periods of demand.
3. Injection does not appear to create a significant/measurable rise in groundwater elevations in wells near the Glenridge well.
4. The geochemical nature of the major ions of the Garr spring water, median principal aquifer water, and Glenridge well are all very similar.
5. Mixing injectate with host water causes minute but detectible increases in lead and zinc concentrations, likely from oxidation of the sulfide minerals galena and sphalerite in the aquifer.
6. Due to the limited differences in groundwater chemistry, the mobilization of metals is small relative to their concentrations in the samples.
7. Groundwater travel times and geochemical modeling suggest that recently observed increases of nitrate concentrations in the Providence Alder well are not related to Millville's ASR activities.
8. While they are not related, changes observed in nitrate concentration of the Alder well coincide with different stages of Millville's pilot project, warranting a suggested monitoring regime for nutrients in the Alder well to verify that there is no influence from Millville's ASR project.
9. Nitrate contamination is still a problem in the area and will continue to increase as population and septic tank density and age increases.
10. Recapture of the injectate bubble decreases as storage time increases.
11. The maximum quantity of water that Millville can inject in one season (October to March) is about 15 ac-ft (2 ha-m).
12. The principal aquifer has a much greater capacity than was tested in this study for storage of artificially recharged water.

Overall, the pilot tests conducted by Millville did not show detriment to the principal aquifer. Nitrate in the Millville area is a problem that should be addressed. The principal aquifer has significant storage abilities beyond the capacity of Millville's water system.

RECOMMENDATIONS

Monitoring Plan

Regulation requires Millville to initiate a monitoring plan if they chose to pursue ASR. Below, I recommend a monitoring plan that will assess changes in the aquifer and well. The recommended monitoring plan includes biyearly, regular (weekly to monthly), and periodic (monthly) measurements. I recommend that Millville sample the Glenridge well at least twice during each cycle (once at the end of injection, once at the end of pumping) for nitrate plus nitrite as nitrogen, disinfectant byproducts, general chemistry, and some metals. Nitrate plus nitrite as nitrogen should be monitored because of the proximity of the current nitrate concentrations to the drinking water source. Disinfectant byproducts should be

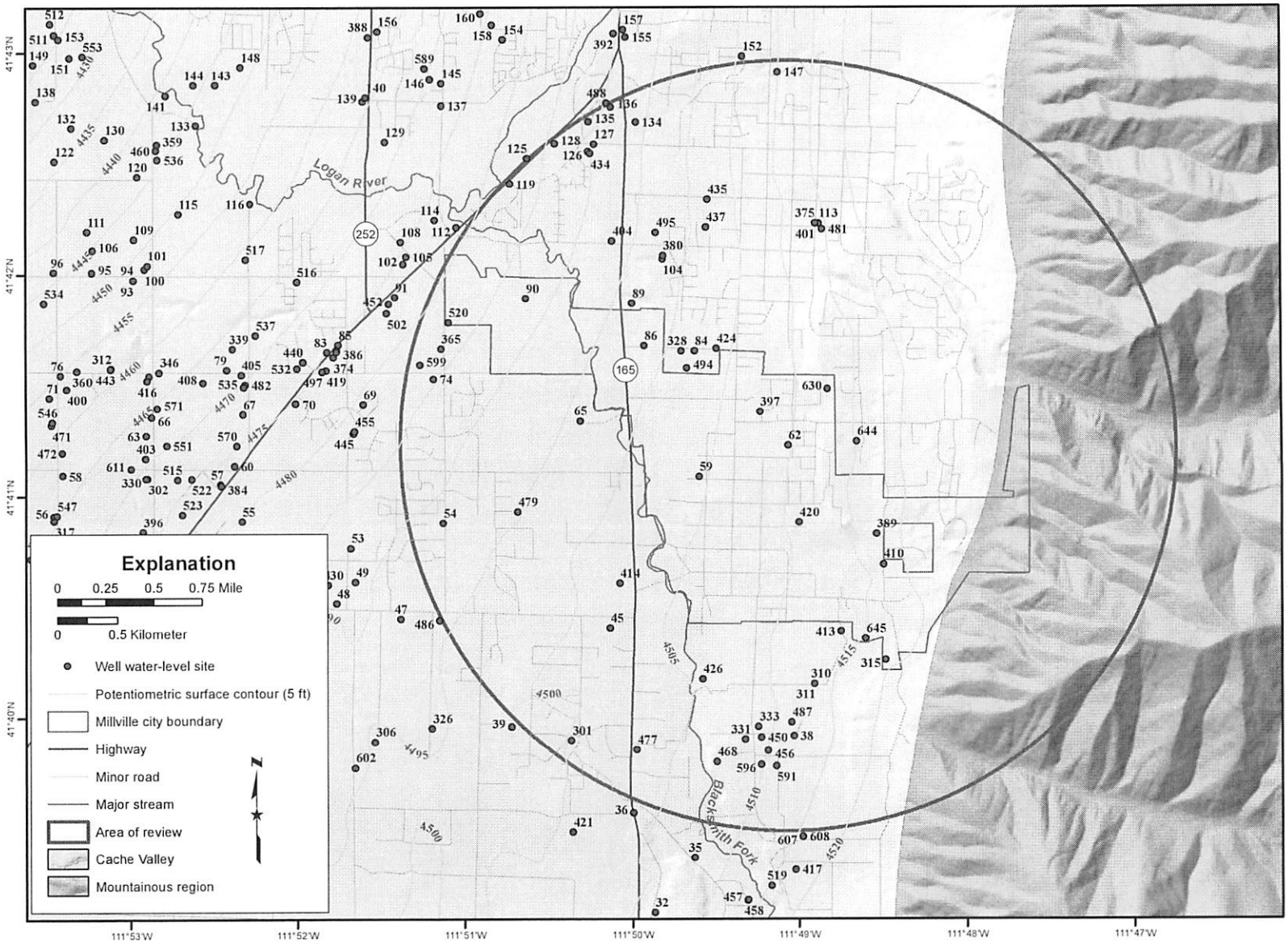

Figure 29. Potentiometric surface contours created using cokriging interpolation of groundwater levels and elevation data in the Millville area. Numbers adjacent to sample sites are sample numbers listed in appendix E. Contour interval is 5 feet.

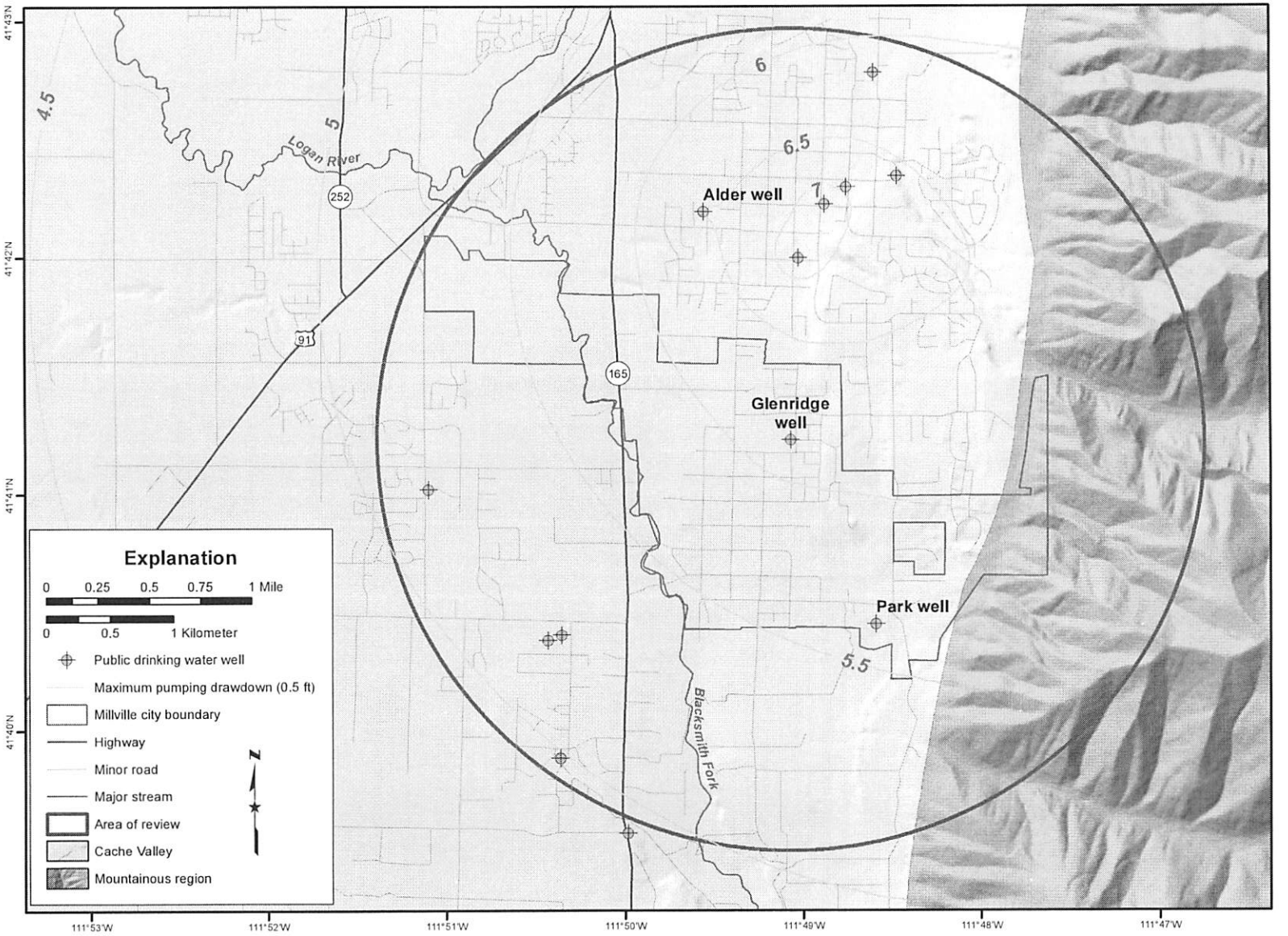

Figure 30. *Drawdown contours created using AQTESOLV model of the Millville area. The contours represent maximum pumping conditions, treating the East Cache fault as a barrier to flow. Contour interval is 0.5 feet.*

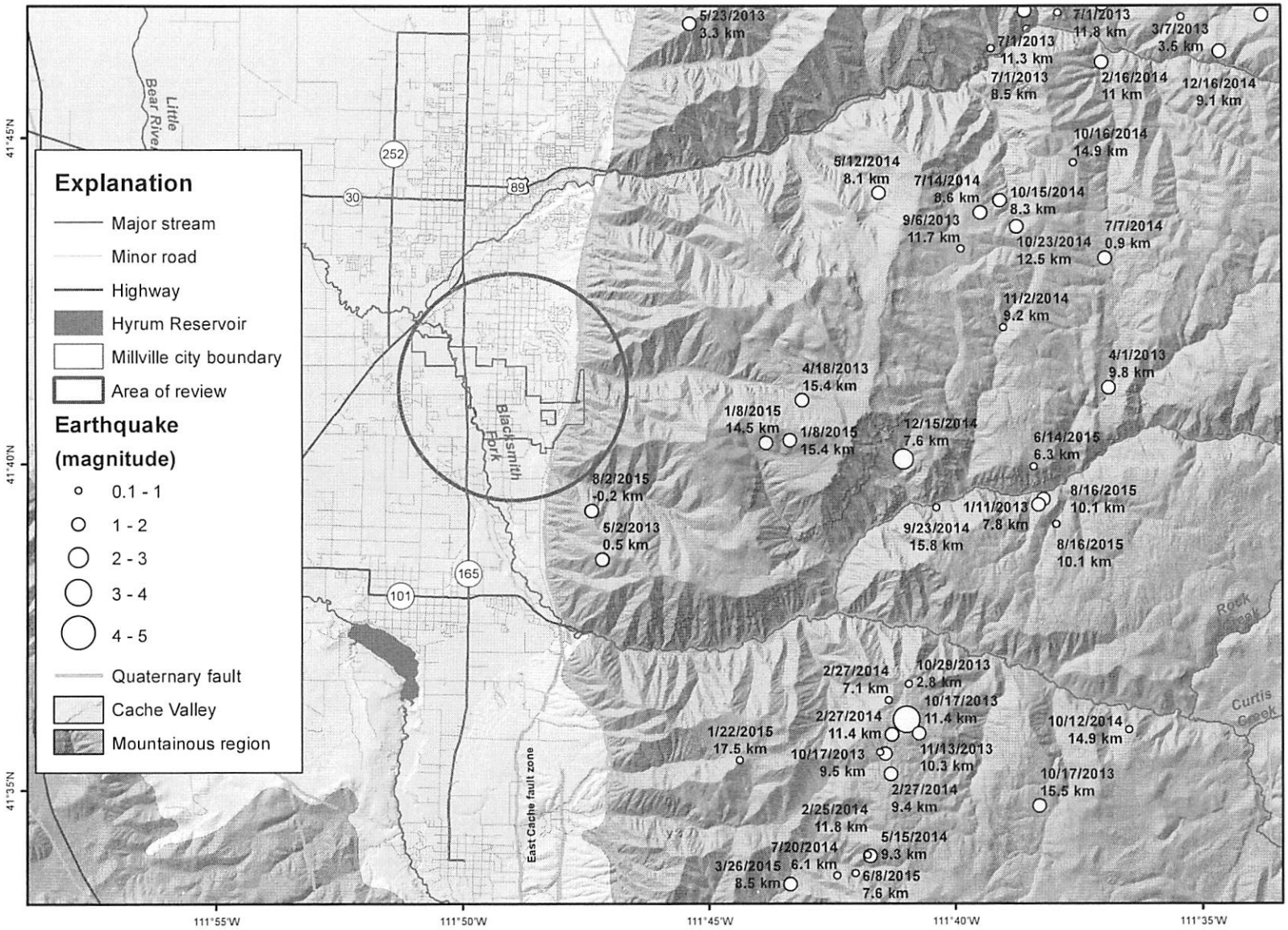

Figure 31. Earthquakes in the Millville area from January 2013 to October 2015. The label for each earthquake is the date it was measured and the approximate hypocenter elevation.

monitored to ensure that these are not building up over time. General chemistry includes calcium, magnesium, bicarbonate, sodium, and chloride and should be monitored to observe geochemical changes in the aquifer over time. Recommended metals to monitor twice per cycle include arsenic, iron, zinc, and lead, which will allow observation of ongoing oxidation reactions. I recommend that Millville conduct regularly (weekly to monthly) monitoring of the Glenridge well during each cycle for field dissolved oxygen and/or field Eh and field pH. Field-based measurements of dissolved oxygen and field Eh allow for monitoring ongoing changes in the oxidation state and general geochemistry of the aquifer. Millville should conduct periodic monitoring (monthly) of two nearby downgradient wells for nitrate, pH, and dissolved oxygen.

I also recommend that Millville conduct inspections and tests to ensure that the Glenridge well structure maintains its integrity. Millville should measure specific capacity (based on pumping rate, drawdown, and pumping duration) in the Glenridge on a yearly basis to determine if clogging/biofouling is occurring. A specific capacity test consists of pumping the well for a given duration while measuring discharge and water levels to determine how efficiently the well is operating. To maintain screen efficiency, I recommend regular inspection and service of the Glenridge well perforated intervals.

Monitoring of ambient groundwater levels at the Glenridge well, the new high school well, and one well to the north of the Glenridge well—the USU Farm well would work well for this, but other area wells (Arnold or Matthews) could be an option—could also be useful, but should not be necessary. Groundwater level monitoring would ensure that injection activities are not excessively raising local groundwater levels.

Injection and Pumping Schedule

Due to dispersion and bubble drift, Millville should plan to pump more total volume than they inject. To prevent excessive loss of injectate, the storage interval should be minimized. Based on these parameters, injection would start in January and proceed to the end of March, and pumping would begin sometime in June and end in October to match demand and water right access.

ACKNOWLEDGMENTS

I thank Millville City for making this project possible. Thanks to Gary Larsen of Millville for his excellent record keeping, chemical sampling, management of the infrastructure, and thoughtful contribution of concepts. Thanks to Chad Kendrick of Millville for his assistance with sampling and pumping and infiltration tests. Thanks to David Pyne for his reviews of our work. I am grateful to Cache County and the Utah Division of Water Resources for their continued financial support and interests in aquifer storage and recovery. Thanks to employees at the UGS who reviewed and contributed to this work, especially J. Lucy Jordan, Mike Hylland, Stephanie Carney, Mike Lowe, and Rick Allis. Thanks to Nathan Payne for his help with potential contaminant mapping and Brittany Dame with her field assistance. Thanks to Stefan Kirby for his great insights in geochemistry. Thanks to Dr. Tom Lachmar at USU for his review and for initiating my research in Cache Valley. Thanks to Dr. William Doucette and the USU water lab for their keen and generous examination of our water samples.

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APPENDICES

APPENDIX A
WATER CHEMISTRY

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
06/09/2015 10:00	Alder well	414213111493101		Sp. Cond.	648	umhos/cm	UGS
06/09/2015 10:00	Alder well	414213111493101		T. Sus. Solids	<4	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Turbidity	0.157	NTU	UGS
06/09/2015 10:00	Alder well	414213111493101		pH	6.915	units	UGS
06/09/2015 10:00	Alder well	414213111493101		Bicarbonate	350	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Carbon Dioxide	68	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Carbonate	0	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Hydroxide	0	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		T. Alk/CaCO3	287	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		TDS @ 180 C	376	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Nitrate + Nitrite as N	7.93	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Phosphate, Tot. Dig. (as P)	0.01	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Sulfate	11.8	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Ammonia as N	<0.02	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101		Chloride	21.8	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Boron	<30	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Calcium	91.2	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Iron	<0.02	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Magnesium	32.2	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Potassium	1.55	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Sodium	8.47	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Arsenic	<1	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Barium	0.1308	mg/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Cadmium	<0.1	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Chromium	<2	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Copper	7.727	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Lead	1.166	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Manganese	<5	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Nickel	<5	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Selenium	<1	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Silver	<0.5	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Zinc	25.784	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Aluminum	<10	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Mercury	<0.2	ug/L	UGS
06/09/2015 10:00	Alder well	414213111493101	Total	Selenium	0	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Sp. Cond.	653	umhos/cm	UGS
07/16/2015 11:15	Alder well	414213111493101		T. Sus. Solids	<4	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Turbidity	0.122	NTU	UGS
07/16/2015 11:15	Alder well	414213111493101		pH	7.471	units	UGS
07/16/2015 11:15	Alder well	414213111493101		Bicarbonate	342	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Carbon Dioxide	18	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Carbonate	0	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Hydroxide	0	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		T. Alk/CaCO3	280	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		TDS @ 180 C	400	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Nitrate + Nitrite as N	6.97	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Phosphate, Tot. Dig. (as P)	0.01	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Sulfate	<7.545	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Ammonia as N	<0.02	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Chloride	22.5	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101		Bromide	<0.02	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Boron	<30	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Calcium	84.9	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Iron	<20	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Magnesium	28.6	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Potassium	1.44	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Sodium	7.95	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Hardness (from D-CA and D-MG)	329.5	mg/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Arsenic	<1	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Barium	148.35	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Cadmium	<0.1	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Chromium	2.016	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Copper	11.512	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Lead	2.321	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Manganese	<5	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Nickel	<5	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Selenium	<1	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Silver	<0.5	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Zinc	52.242	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Aluminum	<10	ug/L	UGS
07/16/2015 11:15	Alder well	414213111493101	Dissolved	Mercury	<0.2	ug/L	UGS
09/05/2014 08:30	Arnold well	414023111484101		Nitrate + Nitrite as N	4.85	mg/L	Millville City
10/15/2014 00:00	Arnold well	414023111484101		Sp. Cond.	474	umhos/cm	UGS
10/15/2014 00:00	Arnold well	414023111484101		T. Sus. Solids	6.4	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Turbidity	2.35	NTU	UGS
10/15/2014 00:00	Arnold well	414023111484101		pH	7.575	units	UGS
10/15/2014 00:00	Arnold well	414023111484101		Bicarbonate	244	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Carbon Dioxide	10	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Carbonate	0	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Hydroxide	0	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		T. Alk/CaCO3	200	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		TDS @ 180 C	262	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Nitrate + Nitrite as N	4.21	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Phosphate, Tot. Dig. (as P)	0.018	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Silica D/SIO2	9.6	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Sulfate	18.2	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Ammonia as N	<0.035	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101		Chloride	12.2	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Calcium	50	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Magnesium	27.9	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Potassium	<1	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Sodium	11.1	mg/L	UGS
10/15/2014 00:00	Arnold well	414023111484101	Dissolved	Hardness (from D-CA and D-MG)	239.5	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Sp. Cond.	429	umhos/cm	UGS
04/01/2015 12:30	Arnold well	414023111484101		T. Sus. Solids	218	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Turbidity	91.4	NTU	UGS
04/01/2015 12:30	Arnold well	414023111484101		pH	7.698	units	UGS
04/01/2015 12:30	Arnold well	414023111484101		Bicarbonate	222	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Carbon Dioxide	7	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Carbonate	0	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Hydroxide	0	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		T. Alk/CaCO3	182	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		TDS @ 180 C	230	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Nitrate + Nitrite as N	3.91	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Phosphate, Tot. Dig. (as P)	0.219	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Silica D/SIO2	9.42	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Sulfate	24.7	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Ammonia as N	0.055	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101		Chloride	8.67	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Calcium	49.8	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Iron	28.1	ug/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Magnesium	28.5	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Potassium	2.63	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Sodium	12	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Hardness (from D-CA and D-MG)	241.5	mg/L	UGS
04/01/2015 12:30	Arnold well	414023111484101	Dissolved	Arsenic	<1	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Sp. Cond.	516	umhos/cm	UGS
07/16/2015 13:15	Arnold well	414023111484101		T. Sus. Solids	17.6	mg/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
07/16/2015 13:15	Arnold well	414023111484101		Turbidity	3.21	NTU	UGS
07/16/2015 13:15	Arnold well	414023111484101		pH	7.657	units	UGS
07/16/2015 13:15	Arnold well	414023111484101		Bicarbonate	292	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Carbon Dioxide	10	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Carbonate	0	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Hydroxide	0	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		T. Alk/CaCO3	239	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		TDS @ 180 C	306	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Nitrate + Nitrite as N	3.93	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Phosphate, Tot. Dig. (as P)	0.019	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Sulfate	<7.545	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Ammonia as N	<0.02	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Chloride	12.3	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101		Bromide	<0.02	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Boron	36	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Calcium	53.7	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Iron	<20	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Magnesium	29.7	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Potassium	3.73	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Sodium	12.7	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Hardness (from D-CA and D-MG)	256.2	mg/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Arsenic	<1	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Barium	123.45	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Cadmium	0.195	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Chromium	2.356	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Copper	20.792	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Lead	0.577	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Manganese	7.201	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Nickel	<5	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Selenium	<1	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Silver	<0.5	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Zinc	91.035	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Aluminum	<10	ug/L	UGS
07/16/2015 13:15	Arnold well	414023111484101	Dissolved	Mercury	<0.2	ug/L	UGS
08/24/2012 07:20	Garr spring	414024111481101		Nitrate + Nitrite as N	0.778	mg/L	Millville City
02/28/2014 09:15	Garr spring	414024111481101		Turbidity	<0.1	NTU	UGS
02/28/2014 09:15	Garr spring	414024111481101		TDS @ 180 C	254	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Fluoride	0.09	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Sulfate	27	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Cyanide	<0.01	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Nitrate as N	0.728	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Nitrite as N	<0.035	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Nitrate + Nitrite as N	0.764	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Phosphate, Tot. Dig. (as P)	0.008	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Ammonia as N	<0.035	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Sodium	4.28	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Arsenic	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Barium	<0.1	mg/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Cadmium	0.202	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Chromium	9.7	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Copper	2.19	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Lead	0.115	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Nickel	<5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Selenium	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Beryllium	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Thallium	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Antimony	<3	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Uranium 238	1.22	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101	Total	Mercury	<0.2	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
02/28/2014 09:15	Garr spring	414024111481101		Dalapon	<2.2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dicamba	<0.4	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		2,4-D	<0.22	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Pentachlorophenol	<0.08	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		2,4,5-TP (Silvex)	<0.44	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Picloram	<0.22	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dinoseb	<0.44	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1-Dichloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1,1-Trichloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1,2-Trichloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1,1,2-Tetrachloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,1,2,2-Tetrachloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2-Dibromo-3-chloropropane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2-Dichloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		2-Chlorotoluene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2,3-Trichloropropane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2,4-Trichlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,3-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,3-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,4-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		4-Chlorotoluene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		2,2-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Benzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromodichloromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2,3-Trichlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,2,4-Trimethylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,3,5-Trimethylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		1,4-Isopropyltoluene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromochloromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dichlorodifluoromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Hexachlorobutadiene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromomethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromoform	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chlorobenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chlorodibromomethane	0.44	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chloroethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chloroform	0.32	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chloromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Carbon Tetrachloride	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		cis-1,2-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		cis-1,3-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dibromomethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Ethylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Ethylene Dibromide	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Methylene Chloride	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Styrene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Tetrachloroethene (PCE)	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Toluene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Total Xylene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		trans-1,2-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		trans-1,3-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Trichloroethene (TCE)	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Vinyl Chloride	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Isopropylbenzene	<0.5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
02/28/2014 09:15	Garr spring	414024111481101		Methyl T-Butyl Ether (MTBE)	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Napthalene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		n-Butylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		n-Propylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Sec-butyl benzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Tert-butylbenzene	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Trichlorofluoromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chloroform	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromodichloromethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chlorodibromomethane	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromoform	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Total THM	<0.5	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Aldicarb sulfone	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Aldicarb sulfoxide	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Aldicarb	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Carbofuran	<2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Oxamyl	<2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Carbaryl	<2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		3-Hydroxycarbofuran	<2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Methomyl	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Alachlor	<0.2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Atrazine	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Benzo (a) pyrene	<0.05	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bis (2-ethylhexyl) adipate	<0.6	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bis (2-ethylhexyl) phthalate	<0.6	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Endrin	<0.01	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Heptachlor	<0.04	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Heptachlor Epoxide	<0.02	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Hexachlorobenzene	<0.12	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Hexachlorocyclopentadiene	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Lindane	<0.02	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Methoxychlor	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Pentachlorophenol	<0.04	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Simazine	<0.07	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Toxaphene	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Aldrin	<0.21	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Alpha-Chlordane	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Gamma-Chlordane	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Trans-Nonachlor	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Chlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dichlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Heptachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Hexachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Octachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Pentachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Tetreachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Trichlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Monochloroacetic Acid	<2	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dichloroacetic Acid	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Trichloroacetic Acid	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Monobromoacetic Acid	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Dibromoacetic Acid	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Bromochloroacetic Acid	<1	ug/L	UGS
02/28/2014 09:15	Garr spring	414024111481101		Nitrate + Nitrite as N	0.728	mg/L	Millville City
10/15/2014 10:30	Garr spring	414024111481101		Alpha, gross	0.19	pc/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Beta, gross	1.7	pc/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Radium 228	6.2	pc/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Color	0	ccu	UGS
10/15/2014 10:30	Garr spring	414024111481101		Sp. Cond.	449	umhos/cm	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 10:30	Garr spring	414024111481101		Odor	0	T.O.N.	UGS
10/15/2014 10:30	Garr spring	414024111481101		pH	7.752	units	UGS
10/15/2014 10:30	Garr spring	414024111481101		T. Sus. Solids	<4	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Turbidity	<0.1	NTU	UGS
10/15/2014 10:30	Garr spring	414024111481101		pH	7.784	units	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bicarbonate	256	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Carbon Dioxide	7	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Carbonate	0	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Hydroxide	0	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		T. Alk/CaCO3	210	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		TDS @ 180 C	246	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chloride	4.9446	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Fluoride	0.0782	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Sulfate	26.071	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Cyanide	<0.01	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Nitrate + Nitrite as N	0.625	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Phosphate, Tot. Dig. (as P)	0.008	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Silica D/SIO2	7.45	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Total Organic Carbon	<0.5	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Corrosivity	0.271	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Ammonia as N	<0.035	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Boron	<30	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Calcium	54.1	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Iron	<0.02	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Magnesium	25.6	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Potassium	<1	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Sodium	4.29	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Dissolved	Hardness (from D-CA and D-MG)	240.3	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Arsenic	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Barium	<0.1	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Cadmium	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Chromium	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Copper	1.049	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Lead	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Manganese	<5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Nickel	<5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Selenium	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Silver	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Zinc	<10	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Aluminum	<10	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Beryllium	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Thallium	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Antimony	<3	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Uranium 238	1.2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101	Total	Mercury	<0.2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Surfactant/MBAS	0	mg/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dalapon	<2.2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dicamba	<0.4	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		2,4-D	<0.22	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Pentachlorophenol	<0.08	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		2,4,5-TP (Silvex)	<0.44	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Picloram	<0.22	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dinoseb	<0.44	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1-Dichloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1,1-Trichloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1,2-Trichloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,1,1,2-Tetrachloroethane	<0.5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 10:30	Garr spring	414024111481101		1,1,2,2-Tetrachloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2-Dibromo-3-chloropropane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2-Dichloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		2-Chlorotoluene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2,3-Trichloropropane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2,4-Trichlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,3-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,3-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,4-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		4-Chlorotoluene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		2,2-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Benzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromodichloromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2,3-Trichlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,2,4-Trimethylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,3,5-Trimethylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		1,4-Isopropyltoluene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromochloromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dichlorodifluoromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Hexachlorobutadiene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromomethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromoform	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chlorobenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chlorodibromomethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chloroethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chloroform	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chloromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Carbon Tetrachloride	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		cis-1,2-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		cis-1,3-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dibromomethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Ethylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Ethylene Dibromide	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Methylene Chloride	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Styrene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Tetrachloroethene (PCE)	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Toluene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Total Xylene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		trans-1,2-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		trans-1,3-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Trichloroethene (TCE)	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Vinyl Chloride	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Isopropylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Methyl T-Butyl Ether (MTBE)	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Napthalene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		n-Butylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		n-Propylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Sec-butyl benzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Tert-butylbenzene	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Trichlorofluoromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chloroform	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromodichloromethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chlorodibromomethane	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromoform	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Total THM	<0.5	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Aldicarb sulfone	<1	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 10:30	Garr spring	414024111481101		Aldicarb sulfoxide	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Aldicarb	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Carbofuran	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Oxamyl	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Carbaryl	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		3-Hydroxycarbofuran	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Methomyl	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Alachlor	<0.2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Atrazine	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Benzo (a) pyrene	<0.05	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bis (2-ethylhexyl) adipate	<0.6	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bis (2-ethylhexyl) phthalate	<0.6	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Endrin	<0.01	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Heptachlor	<0.04	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Heptachlor Epoxide	<0.02	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Hexachlorobenzene	<0.12	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Hexachlorocyclopentadiene	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Lindane	<0.02	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Methoxychlor	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Pentachlorophenol	<0.04	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Simazine	<0.07	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Toxaphene	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Aldrin	<0.21	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Alpha-Chlordane	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Gamma-Chlordane	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Trans-Nonachlor	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Chlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dichlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Heptachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Hexachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Octachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Pentachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Tetreachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Trichlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Monochloroacetic Acid	<2	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dichloroacetic Acid	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Trichloroacetic Acid	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Monobromoacetic Acid	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Dibromoacetic Acid	<1	ug/L	UGS
10/15/2014 10:30	Garr spring	414024111481101		Bromochloroacetic Acid	<1	ug/L	UGS
11/04/2014 11:30	Garr spring	414024111481101		Surfactant/MBAS	<0.015	mg/L	UGS
08/24/2012 08:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.81	mg/L	Millville City
07/16/2013 10:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	8.45	mg/L	Millville City
09/20/2013 08:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	8.14	mg/L	Millville City
02/28/2014 11:15	Glenridge well	414115111490301		Turbidity	<0.1	NTU	UGS
02/28/2014 11:15	Glenridge well	414115111490301		TDS @ 180 C	426	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Fluoride	0.11	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Sulfate	23.3	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Cyanide	<0.01	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Nitrate as N	7.65	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Nitrite as N	<0.035	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.65	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.021	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Ammonia as N	<0.035	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Sodium	12.6	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Arsenic	1.09	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Barium	0.222	mg/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Cadmium	0.128	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Chromium	15.9	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
02/28/2014 11:15	Glenridge well	414115111490301	Total	Copper	1.63	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Lead	0.483	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Nickel	<5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Selenium	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Beryllium	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Thallium	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Antimony	<3	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Uranium 238	1.74	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301	Total	Mercury	<0.2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dalapon	<2.2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dicamba	<0.4	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		2,4-D	<0.22	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Pentachlorophenol	<0.08	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		2,4,5-TP (Silvex)	<0.44	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Picloram	<0.22	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dinoseb	<0.44	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1-Dichloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1,1-Trichloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1,2-Trichloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1,1,2-Tetrachloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,1,2,2-Tetrachloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2-Dibromo-3-chloropropane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2-Dichloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		2-Chlorotoluene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2,3-Trichloropropane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2,4-Trichlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,3-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,3-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,4-Dichlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		4-Chlorotoluene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		2,2-Dichloropropane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Benzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromodichloromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2,3-Trichlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,2,4-Trimethylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,3,5-Trimethylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		1,4-Isopropyltoluene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromochloromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dichlorodifluoromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Hexachlorobutadiene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromomethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromoform	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chlorobenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chlorodibromomethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chloroethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chloroform	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chloromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Carbon Tetrachloride	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		cis-1,2-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		cis-1,3-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dibromomethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Ethylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Ethylene Dibromide	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Methylene Chloride	<0.5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
02/28/2014 11:15	Glenridge well	414115111490301		Styrene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Tetrachloroethene (PCE)	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Toluene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Total Xylene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		trans-1,2-Dichloroethene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		trans-1,3-Dichloropropene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Trichloroethene (TCE)	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Vinyl Chloride	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Isopropylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Methyl T-Butyl Ether (MTBE)	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Napthalene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		n-Butylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		n-Propylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Sec-butyl benzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Tert-butylbenzene	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Trichlorofluoromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chloroform	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromodichloromethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chlorodibromomethane	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bromoform	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Total THM	<0.5	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Aldicarb sulfone	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Aldicarb sulfoxide	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Aldicarb	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Carbofuran	<2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Oxamyl	<2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Carbaryl	<2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		3-Hydroxycarbofuran	<2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Methomyl	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Alachlor	<0.2	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Atrazine	0.24	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Benzo (a) pyrene	<0.05	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bis (2-ethylhexyl) adipate	<0.6	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Bis (2-ethylhexyl) phthalate	<0.6	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Endrin	<0.01	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Heptachlor	<0.04	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Heptachlor Epoxide	<0.02	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Hexachlorobenzene	<0.12	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Hexachlorocyclopentadiene	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Lindane	<0.02	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Methoxychlor	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Pentachlorophenol	<0.04	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Simazine	<0.07	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Toxaphene	<1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Aldrin	<0.21	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Alpha-Chlordane	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Gamma-Chlordane	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Trans-Nonachlor	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Chlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Dichlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Heptachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Hexachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Octachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Pentachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Tetreachlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Trichlorobiphenyl	<0.1	ug/L	UGS
02/28/2014 11:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.65	mg/L	Millville City
03/01/2014 11:15	Glenridge well	414115111490301		Monochloroacetic Acid	<2	ug/L	UGS
03/02/2014 11:15	Glenridge well	414115111490301		Dichloroacetic Acid	<1	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
03/03/2014 11:15	Glenridge well	414115111490301		Trichloroacetic Acid	<1	ug/L	UGS
03/04/2014 11:15	Glenridge well	414115111490301		Monobromoacetic Acid	<1	ug/L	UGS
03/05/2014 11:15	Glenridge well	414115111490301		Dibromoacetic Acid	<1	ug/L	UGS
03/06/2014 11:15	Glenridge well	414115111490301		Bromochloroacetic Acid	<1	ug/L	UGS
03/17/2014 10:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.68	mg/L	Millville City
03/19/2014 10:40	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.01	mg/L	Millville City
03/19/2014 14:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.922	mg/L	Millville City
03/19/2014 14:05	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.767	mg/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.009	mg/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Ammonia as N	<0.035	mg/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Monochloroacetic Acid	<2	ug/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Dichloroacetic Acid	<1	ug/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Trichloroacetic Acid	<1	ug/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Monobromoacetic Acid	<1	ug/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Dibromoacetic Acid	<1	ug/L	UGS
03/19/2014 14:05	Glenridge well	414115111490301		Bromochloroacetic Acid	<1	ug/L	UGS
03/19/2014 16:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.799	mg/L	UGS
03/19/2014 20:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.883	mg/L	Millville City
03/19/2014 22:15	Glenridge well	414115111490301		Nitrate as N	0.854	mg/L	UGS
03/19/2014 22:15	Glenridge well	414115111490301		Nitrite as N	<0.007	mg/L	UGS
03/20/2014 08:50	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.04	mg/L	UGS
03/21/2014 09:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.49	mg/L	Millville City
03/21/2014 10:06	Glenridge well	414115111490301		Nitrate + Nitrite as N	4.07	mg/L	Millville City
03/21/2014 12:47	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.56	mg/L	Millville City
03/21/2014 16:18	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.64	mg/L	Millville City
03/22/2014 09:37	Glenridge well	414115111490301		Nitrate + Nitrite as N	2	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Sp. Cond.	562	umhos/cm	UGS
03/24/2014 10:15	Glenridge well	414115111490301		T. Sus. Solids	<4	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Turbidity	<0.1	NTU	UGS
03/24/2014 10:15	Glenridge well	414115111490301		pH	7.683	units	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Bicarbonate	302	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Carbon Dioxide	10	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Carbonate	0	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Hydroxide	0	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		T. Alk/CaCO3	248	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		TDS @ 180 C	332	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.0531	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.015	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Sulfate	25.1	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Ammonia as N	<0.035	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301		Chloride	11.7	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Boron	<30	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Dissolved	Calcium	59.9	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Calcium	60.9	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Iron	<0.02	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Dissolved	Magnesium	30.3	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Magnesium	31.1	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Dissolved	Potassium	1.16	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Potassium	1.15	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Dissolved	Sodium	7.51	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Sodium	7.62	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Dissolved	Hardness (from D-CA and D-MG)	274.1	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Arsenic	<1	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Barium	0.12511	mg/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Cadmium	<0.1	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Chromium	<2	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Copper	1.402	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Lead	0.263	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Manganese	<5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
03/24/2014 10:15	Glenridge well	414115111490301	Total	Nickel	<5	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Silver	<0.5	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Zinc	<10	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Aluminum	<10	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Mercury	<0.2	ug/L	UGS
03/24/2014 10:15	Glenridge well	414115111490301	Total	Selenium	<1	ug/L	UGS
03/24/2014 10:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	3.02	mg/L	Millville City
04/08/2014 14:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	4.23	mg/L	Millville City
04/16/2014 13:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	4.75	mg/L	Millville City
05/05/2014 13:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	5.29	mg/L	Millville City
05/28/2014 13:45	Glenridge well	414115111490301		Nitrate + Nitrite as N	6.45	mg/L	Millville City
06/30/2014 14:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	6.55	mg/L	Millville City
07/10/2014 14:20	Glenridge well	414115111490301		Nitrate + Nitrite as N	6.49	mg/L	Millville City
07/28/2014 09:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	6.52	mg/L	Millville City
08/20/2014 11:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.31	mg/L	Millville City
09/05/2014 09:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.65	mg/L	Millville City
10/15/2014 11:30	Glenridge well	414115111490301		Alpha, gross	1.1	pc/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Beta, gross	0.76	pc/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Radium 228	1.6	pc/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Color	0	ccu	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Sp. Cond.	779	umhos/cm	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Odor	0	T.O.N.	UGS
10/15/2014 11:30	Glenridge well	414115111490301		pH	7.514	units	UGS
10/15/2014 11:30	Glenridge well	414115111490301		T. Sus. Solids	<4	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Turbidity	0.116	NTU	UGS
10/15/2014 11:30	Glenridge well	414115111490301		pH	7.604	units	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bicarbonate	394	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Carbon Dioxide	16	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Carbonate	0	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Hydroxide	0	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		T. Alk/CaCO3	323	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		TDS @ 180 C	440	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chloride	34.227	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Fluoride	0.1012	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Sulfate	28.058	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Cyanide	<0.01	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Nitrate + Nitrite as N	7.19	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.017	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Silica D/SIO2	13.8	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Total Organic Carbon	<0.5	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Corrosivity	0.364	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Ammonia as N	<0.035	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Boron	37.7	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Calcium	81.5	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Iron	<0.02	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Magnesium	44.9	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Potassium	1.82	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Sodium	14	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Dissolved	Hardness (from D-CA and D-MG)	388.1	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Arsenic	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Barium	0.22227	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Cadmium	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Chromium	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Copper	12.591	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Lead	2.608	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Manganese	<5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Nickel	<5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Selenium	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Silver	<0.5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 11:30	Glenridge well	414115111490301	Total	Zinc	26.686	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Aluminum	<10	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Beryllium	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Thallium	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Antimony	<3	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Uranium 238	1.84	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301	Total	Mercury	<0.2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Surfactant/MBAS	0	mg/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dalapon	<2.2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dicamba	<0.4	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		2,4-D	<0.22	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Pentachlorophenol	0.092	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		2,4,5-TP (Silvex)	<0.44	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Picloram	<0.22	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dinoseb	<0.44	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1-Dichloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1,1-Trichloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1,2-Trichloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1,1,2-Tetrachloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,1,2,2-Tetrachloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2-Dibromo-3-chloropropane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2-Dichloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		2-Chlorotoluene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2,3-Trichloropropane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2,4-Trichlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,3-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,3-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,4-Dichlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		4-Chlorotoluene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		2,2-Dichloropropane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Benzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromodichloromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2,3-Trichlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,2,4-Trimethylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,3,5-Trimethylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		1,4-Isopropyltoluene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromochloromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dichlorodifluoromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Hexachlorobutadiene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromomethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromoform	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chlorobenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chlorodibromomethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chloroethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chloroform	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chloromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Carbon Tetrachloride	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		cis-1,2-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		cis-1,3-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dibromomethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Ethylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Ethylene Dibromide	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Methylene Chloride	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Styrene	<0.5	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 11:30	Glenridge well	414115111490301		Tetrachloroethene (PCE)	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Toluene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Total Xylene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		trans-1,2-Dichloroethene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		trans-1,3-Dichloropropene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Trichloroethene (TCE)	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Vinyl Chloride	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Isopropylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Methyl T-Butyl Ether (MTBE)	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Napthalene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		n-Butylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		n-Propylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Sec-butyl benzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Tert-butylbenzene	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Trichlorofluoromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chloroform	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromodichloromethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chlorodibromomethane	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromoform	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Total THM	<0.5	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Aldicarb sulfone	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Aldicarb sulfoxide	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Aldicarb	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Carbofuran	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Oxamyl	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Carbaryl	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		3-Hydroxycarbofuran	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Methomyl	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Alachlor	<0.2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Atrazine	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Benzo (a) pyrene	<0.05	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bis (2-ethylhexyl) adipate	<0.6	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bis (2-ethylhexyl) phthalate	<0.6	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Endrin	<0.01	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Heptachlor	<0.04	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Heptachlor Epoxide	<0.02	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Hexachlorobenzene	<0.12	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Hexachlorocyclopentadiene	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Lindane	<0.02	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Methoxychlor	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Pentachlorophenol	<0.04	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Simazine	<0.07	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Toxaphene	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Aldrin	<0.21	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Alpha-Chlordane	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Gamma-Chlordane	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Trans-Nonachlor	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Chlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dichlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Heptachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Hexachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Octachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Pentachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Tetreachlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Trichlorobiphenyl	<0.1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Monochloroacetic Acid	<2	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Dichloroacetic Acid	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Trichloroacetic Acid	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Monobromoacetic Acid	<1	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
10/15/2014 11:30	Glenridge well	414115111490301		Dibromoacetic Acid	<1	ug/L	UGS
10/15/2014 11:30	Glenridge well	414115111490301		Bromochloroacetic Acid	<1	ug/L	UGS
11/04/2014 10:00	Glenridge well	414115111490301		Surfactant/MBAS	<0.015	mg/L	UGS
04/01/2015 10:45	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.686	mg/L	Millville City
04/01/2015 11:00	Glenridge well	414115111490301		Sp. Cond.	451	umhos/cm	UGS
04/01/2015 11:00	Glenridge well	414115111490301		T. Sus. Solids	<4	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Turbidity	0.108	NTU	UGS
04/01/2015 11:00	Glenridge well	414115111490301		pH	7.833	units	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Bicarbonate	258	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Carbon Dioxide	6	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Carbonate	0	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Hydroxide	0	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		T. Alk/CaCO3	212	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		TDS @ 180 C	252	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	0.681	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.008	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Silica D/SIO2	7.46	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Sulfate	29.5	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Ammonia as N	<0.02	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301		Chloride	5.01	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Calcium	55.9	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Iron	<20	ug/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Magnesium	26.9	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Potassium	<1	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Sodium	4.13	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Hardness (from D-CA and D-MG)	250.2	mg/L	UGS
04/01/2015 11:00	Glenridge well	414115111490301	Dissolved	Arsenic	<1	ug/L	UGS
05/20/2015 11:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	1.9	mg/L	Millville City
06/25/2015 09:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	3.74	mg/L	Millville City
07/13/2015 10:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	3.32	mg/L	Millville City
07/16/2015 09:45	Glenridge well	414115111490301		Sp. Cond.	580	umhos/cm	UGS
07/16/2015 09:45	Glenridge well	414115111490301		T. Sus. Solids	<4	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Turbidity	0.123	NTU	UGS
07/16/2015 09:45	Glenridge well	414115111490301		pH	7.589	units	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Bicarbonate	308	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Carbon Dioxide	13	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Carbonate	0	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Hydroxide	0	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		T. Alk/CaCO3	253	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		TDS @ 180 C	342	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Nitrate + Nitrite as N	3.64	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Phosphate, Tot. Dig. (as P)	0.013	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Sulfate	16.7	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Ammonia as N	<0.02	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Chloride	15.3	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Bromide	0.0656	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Boron	<30	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Calcium	66.5	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Iron	<20	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Magnesium	31.4	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Potassium	1.19	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Sodium	14	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Hardness (from D-CA and D-MG)	295.1	mg/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Arsenic	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Barium	128.62	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Cadmium	0.148	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Chromium	<2	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Copper	9.639	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Lead	3.639	ug/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Manganese	<5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Nickel	<5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Selenium	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Silver	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Zinc	137.06	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Aluminum	<10	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301	Dissolved	Mercury	<0.2	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Chloroform	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Bromodichloromethane	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Chlorodibromomethane	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Bromoform	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Total THM	<0.5	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Monochloroacetic Acid	<2	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Dichloroacetic Acid	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Trichloroacetic Acid	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Monobromoacetic Acid	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Dibromoacetic Acid	<1	ug/L	UGS
07/16/2015 09:45	Glenridge well	414115111490301		Bromochloroacetic Acid	<1	ug/L	UGS
08/13/2015 10:15	Glenridge well	414115111490301		Nitrate + Nitrite as N	4.56	mg/L	Millville City
08/27/2015 08:45	Glenridge well	414115111490301		Nitrate + Nitrite as N	4.94	mg/L	Millville City
09/14/2015 10:00	Glenridge well	414115111490301		Nitrate + Nitrite as N	5.53	mg/L	Millville City
09/29/2015 11:10	Glenridge well	414115111490301		Nitrate + Nitrite as N	5.61	mg/L	Millville City
08/23/2012 13:30	Hancey well	414042111483501		Nitrate + Nitrite as N	3.48	mg/L	Millville City
07/15/2013 10:15	Hancey well	414042111483501		Nitrate + Nitrite as N	3.9	mg/L	Millville City
02/28/2014 12:50	Hancey well	414042111483501		Nitrate + Nitrite as N	2	mg/L	Millville City
02/28/2014 12:50	Hancey well	414042111483501		Nitrate as N	2	mg/L	UGS
02/28/2014 12:50	Hancey well	414042111483501		Nitrite as N	<0.035	mg/L	UGS
03/19/2014 16:00	Hancey well	414042111483501		Nitrate + Nitrite as N	1.82	mg/L	UGS
09/05/2014 09:45	Hancey well	414042111483501		Nitrate + Nitrite as N	3.31	mg/L	Millville City
04/02/2015 10:20	Hancey well	414042111483501		Nitrate + Nitrite as N	4.3	mg/L	Millville City
09/21/2015 13:40	High School well	414108111494201		Nitrate + Nitrite as N	1.71	mg/L	Millville City
10/16/2014 11:00	Knowles spring	414107111483501		Nitrate + Nitrite as N	5.87	mg/L	UGS
10/16/2014 11:00	Knowles spring	414107111483501		Phosphate, Tot. Dig. (as P)	0.012	mg/L	UGS
10/16/2014 11:00	Knowles spring	414107111483501		Ammonia as N	<0.035	mg/L	UGS
08/23/2012 13:45	Knowles spring	414107111483501		Nitrate + Nitrite as N	6.89	mg/L	Millville City
07/15/2013 10:15	Knowles spring	414107111483501		Nitrate + Nitrite as N	7.72	mg/L	Millville City
09/05/2014 09:20	Knowles spring	414107111483501		Nitrate + Nitrite as N	6.54	mg/L	Millville City
04/02/2015 12:00	Knowles spring	414107111483501		Nitrate + Nitrite as N	5.41	mg/L	Millville City
07/16/2013 10:15	Matthews well	414125111491601		Nitrate + Nitrite as N	6.5	mg/L	Millville City
03/21/2014 09:30	Matthews well	414125111491601		Nitrate + Nitrite as N	6.44	mg/L	Millville City
03/24/2014 10:00	Matthews well	414125111491601		Nitrate + Nitrite as N	7.27	mg/L	Millville City
09/05/2014 11:00	Matthews well	414125111491601		Nitrate + Nitrite as N	6.85	mg/L	Millville City
03/19/2015 13:45	Matthews well	414125111491601		Nitrate + Nitrite as N	6.91	mg/L	Millville City
04/01/2015 11:30	Matthews well	414125111491601		Nitrate + Nitrite as N	6.14	mg/L	Millville City
04/30/2015 08:30	Matthews well	414115111490301		Nitrate + Nitrite as N	4.43	mg/L	Millville City
06/10/2015 11:20	Matthews well	414125111491601		Nitrate + Nitrite as N	2.77	mg/L	Millville City
06/10/2015 11:35	Matthews well	414125111491601		Nitrate + Nitrite as N	6.08	mg/L	Millville City
07/13/2015 10:15	Matthews well	414125111491601		Nitrate + Nitrite as N	6.48	mg/L	Millville City
08/27/2015 09:15	Matthews well	414125111491601		Nitrate + Nitrite as N	7.21	mg/L	Millville City
09/29/2015 11:45	Matthews well	414125111491601		Nitrate + Nitrite as N	6.02	mg/L	Millville City
07/15/2013 10:15	O. Hancey well	414052111484301		Nitrate + Nitrite as N	1.79	mg/L	Millville City
09/05/2014 09:30	O. Hancey well	414052111484301		Nitrate + Nitrite as N	2.3	mg/L	Millville City
04/02/2015 11:00	O. Hancey well	414052111484301		Nitrate + Nitrite as N	7.15	mg/L	Millville City
08/24/2012 07:20	Park well	414029111483501		Nitrate + Nitrite as N	0.821	mg/L	Millville City
09/20/2013 08:00	Park well	414029111483501		Nitrate + Nitrite as N	0.765	mg/L	Millville City
07/13/2015 10:30	Park well	414029111483501		Nitrate + Nitrite as N	0.795	mg/L	Millville City
08/23/2012 13:30	Postma well	414018111483001		Nitrate + Nitrite as N	0.77	mg/L	Millville City
07/15/2013 10:00	Postma well	414018111483001		Nitrate + Nitrite as N	1.79	mg/L	Millville City
04/02/2015 10:10	Postma well	414018111483001		Nitrate + Nitrite as N	0.666	mg/L	Millville City

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
07/16/2013 10:15	Skinner spring	414112111483101		Nitrate + Nitrite as N	5.75	mg/L	Millville City
04/14/2015 13:30	Skinner spring	414112111483101		Nitrate + Nitrite as N	1.18	mg/L	Millville City
02/28/2014 14:06	USU well	414143111495501		Nitrate as N	1.08	mg/L	UGS
02/28/2014 14:06	USU well	414143111495501		Nitrite as N	<0.035	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501		Nitrate + Nitrite as N	0.952	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501		Phosphate, Tot. Dig. (as P)	0.013	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Boron	<30	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Calcium	66	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Iron	0.62	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Magnesium	25.4	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Potassium	1.47	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Sodium	6.66	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Arsenic	<1	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Barium	<0.1	mg/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Cadmium	<0.1	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Chromium	<2	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Copper	<1	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Lead	<0.1	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Manganese	7.401	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Nickel	<5	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Silver	<0.5	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Zinc	98.646	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Aluminum	<10	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Mercury	<0.2	ug/L	UGS
03/31/2014 11:55	USU well	414143111495501	Total	Selenium	<1	ug/L	UGS
10/16/2014 10:00	USU well	414143111495501		Sp. Cond.	548	umhos/cm	UGS
10/16/2014 10:00	USU well	414143111495501		T. Sus. Solids	<4	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Turbidity	2.25	NTU	UGS
10/16/2014 10:00	USU well	414143111495501		pH	7.535	units	UGS
10/16/2014 10:00	USU well	414143111495501		Bicarbonate	318	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Carbon Dioxide	15	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Carbonate	0	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Hydroxide	0	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		T. Alk/CaCO3	261	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		TDS @ 180 C	310	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Nitrate + Nitrite as N	1.07	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Phosphate, Tot. Dig. (as P)	0.014	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Silica D/SIO2	11	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Sulfate	27.5	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Ammonia as N	<0.035	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501		Chloride	9.1	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Calcium	69.7	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Magnesium	26.6	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Potassium	1.19	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Sodium	6.4	mg/L	UGS
10/16/2014 10:00	USU well	414143111495501	Dissolved	Hardness (from D-CA and D-MG)	283.3	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Sp. Cond.	528	umhos/cm	UGS
04/01/2015 13:30	USU well	414143111495501		T. Sus. Solids	<4	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Turbidity	1.46	NTU	UGS
04/01/2015 13:30	USU well	414143111495501		pH	7.507	units	UGS
04/01/2015 13:30	USU well	414143111495501		Bicarbonate	300	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Carbon Dioxide	15	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Carbonate	0	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Hydroxide	0	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		T. Alk/CaCO3	246	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		TDS @ 180 C	280	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Silica D/SIO2	9.82	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Sulfate	25	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501		Chloride	8.52	mg/L	UGS

Sample Date-time	Station Name	Station ID	Matrix Description	Parameter Description	Result	Units	Sampled by
04/01/2015 13:30	USU well	414143111495501	Dissolved	Calcium	70.3	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Iron	210	ug/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Magnesium	27.2	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Potassium	1.46	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Sodium	6.62	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Hardness (from D-CA and D-MG)	287.3	mg/L	UGS
04/01/2015 13:30	USU well	414143111495501	Dissolved	Arsenic	<1	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501		Sp. Cond.	529	umhos/cm	UGS
07/16/2015 10:45	USU well	414143111495501		T. Sus. Solids	<4	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Turbidity	0.102	NTU	UGS
07/16/2015 10:45	USU well	414143111495501		pH	7.083	units	UGS
07/16/2015 10:45	USU well	414143111495501		Bicarbonate	316	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Carbon Dioxide	42	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Carbonate	0	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Hydroxide	0	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		T. Alk/CaCO3	259	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		TDS @ 180 C	326	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Nitrate + Nitrite as N	1.06	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Phosphate, Tot. Dig. (as P)	0.013	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Sulfate	16.7	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Ammonia as N	<0.02	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Chloride	8.42	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501		Bromide	<0.02	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Boron	<30	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Calcium	67.9	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Iron	<20	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Magnesium	25.8	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Potassium	1.63	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Sodium	6.9	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Hardness (from D-CA and D-MG)	275.6	mg/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Arsenic	<1	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Barium	<100	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Cadmium	<0.1	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Chromium	<2	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Copper	6.809	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Lead	1.172	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Manganese	<5	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Nickel	<5	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Selenium	<1	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Silver	<0.5	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Zinc	267.44	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Aluminum	<10	ug/L	UGS
07/16/2015 10:45	USU well	414143111495501	Dissolved	Mercury	<0.2	ug/L	UGS
10/16/2014 09:15	Vail well	414117111500401	Dissolved	Nitrate + Nitrite as N	1.45	mg/L	UGS
10/16/2014 09:15	Vail well	414117111500401	Dissolved	Ammonia as N	<0.03	mg/L	UGS

APPENDIX B
WELL LOGS

Form 113—3M—11-60

Examined 9/14/75 No Card

Recorded: B. C. 9/14/75 T. B. 20

Inspection Sheet

Copied

REPORT OF WELL DRILLER
STATE OF UTAH

Application No. 41887

Claim No.

Coordinate No. (A-11-1) 15 ddc

35-5768

GENERAL STATEMENT: Report of well driller is hereby made and filed with the State Engineer, in accordance with the laws of Utah. (This report shall be filed with the State Engineer within 30 days after the completion or abandonment of the well. Failure to file such reports constitutes a misdemeanor.)

(1) WELL OWNER:
Name Glen W. Hancey
Address 2033 N. 10th East Logan, Utah

(2) LOCATION OF WELL:
County Cache Ground Water Basin (leave blank)
North ~~South~~ 510 feet, ~~East~~ West 675 feet from SE Corner of Section 15 T. 11 ~~S~~ N R. 1 ~~W~~ E SLBM (strike out words not needed)

(3) NATURE OF WORK (check): New Well ☒
Replacement Well ☐ Deepening ☐ Repair ☐ Abandon ☐
If abandonment, describe material and procedure:

(4) NATURE OF USE (check):
Domestic ☒ Industrial ☐ Municipal ☐ Stockwater ☐
Irrigation ☐ Mining ☐ Other ☐ Test Well ☐

(5) TYPE OF CONSTRUCTION (check):
Rotary ☐ Dug ☐ Jetted ☐
Cable ☒ Driven ☐ Bored ☐

(6) CASING SCHEDULE: Threaded ☐ Welded ☒
16" Diam. from 0 feet to 98 feet Gage .312
10" Diam. from 0 feet to 386 feet Gage .365
" Diam. from feet to feet Gage
New ☒ Reject ☐ Used ☐

(7) PERFORATIONS: Perforated? Yes ☒ No ☐
Type of perforator used Mills Blade Type
Size of perforations 1/4 inches by 1 1/2 inches
1200 perforations from 269 feet to 369 feet
perforations from feet to feet
perforations from feet to feet
perforations from feet to feet
perforations from feet to feet

(8) SCREENS: Well screen installed? Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to
Diam. Slot size Set from ft. to

(9) CONSTRUCTION:
Was well gravel packed? Yes ☐ No ☒ Size of gravel:
Gravel placed from feet to feet
Was a surface seal provided? Yes ☒ No ☐
To what depth? 100 feet
Material used to seal: Cement Grout
Did any strata contain unusable water? Yes ☐ No ☒
Type of water: Depth of strata
Method of sealing strata off:

Was surface casing used? Yes ☒ No ☐
Was it cemented in place? Yes ☒ No ☐

(10) WATER LEVELS:
Static level 180 feet below land surface Date 9-6-73
Artesian pressure feet above land surface Date

LOG RECEIVED:

(11) FLOWING WELL:
Controlled by (check) Valve ☐
Cap ☐ Plug ☐ No Control ☐
Does well leak around casing? Yes ☐ No ☐

(12) WELL TESTS: Drawdown is the distance in feet the water level is lowered below static level.
Was a pump test made? Yes ☒ No ☐ If so, by whom? J. S. Lee & Sons
Yield: 440 gal./min. with 25 feet drawdown after 10 hours
" " " " " "
Bailer test gal./min. with feet drawdown after hours
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? No ☐ Yes ☒

(13) WELL LOG: Diameter of well 10 inches
Depth drilled 385 feet. Depth of completed well 385 feet.

NOTE: Place an "X" in the space or combination of spaces needed to designate the material or combination of materials encountered in each depth interval. Under REMARKS make any desirable notes as to occurrence of water and the color, size, nature, etc., of material encountered in each depth interval. Use additional sheet if needed.

DEPTH From	DEPTH To	Clay	Silt	Sand	Gravel	Cobbles	Boulders	Hardpan	Conglomerate	Bedrock	Other	REMARKS
0	1											Top Soil
1	80	x			x		x					
80	85	x										Brown
85	193	x			x							
193	239				x							Dirty
239	245	x										Brown
245	247	x			x							
247	262								x			Hard
262	268	x			x							
268	274								x			Hard
274	283	x			x							
283	290				x							Water
290	305	x			x							
305	369								x			Hard
369	375	x										Brown
375	385	x			x							

Work started 7-31-73, 19 Completed 9-6-73, 19

(14) PUMP:
Manufacturer's Name
Type: H. P.
Depth to pump or bowls feet

Well Driller's Statement:
This well was drilled under my supervision, and this report is true to the best of my knowledge and belief.

Name J. S. Lee & Sons (Person, firm, or corporation) (Type or print)
Address 1313 So. Hwy 89-91, Logan, Utah
(Signed) Robert E. Lee (Well Driller)
License No. 11 Date 9-10-73, 19

USE OTHER SIDE FOR ADDITIONAL REMARKS

PUMP INSTALLATION REPORT (PUMP LOG)

State of Utah Division of Water Rights

PO Box 146300, SLC, UT 84114-6300

(801) 538-7240; (801) 538-7467 fax; waterrights.utah.gov

Well Identification (e.g., Water Right or Non-production Well Number) 25-5171 a16185

Owner Info (Name and Address): Millville City WIN 2721

Well Location:

Physical Street Address 200E 350S

Point of Diversion (Public Land Survey): North/South_____ feet, East/West_____ feet from the _____ Corner of Section_____, Township_____, Range_____, SLB&M/USB&M

GPS (UTM or Lat-Long, incl. Map Datum): 0431973 4615178

Existing Well Details (if known)

Is a Well Driller's Report Available? ☐ Yes ☒ No; Well Depth 388 feet; Well Diameter 10 inches
Nature of Use: ☒ Dom. ☐ Irr. ☐ Stock ☐ Industrial ☐ Commercial ☒ Municipal ☐ Provisional ☐ Monitor
Casing Type: ☒ Steel ☐ Stainless Steel ☐ PVC ☐ Fiberglass ☐ ABS ☐ SR ☐ Other _____
Depth of Surface Seal_____; Other details (if known):_____

RECEIVED
MAR 19 2014 KH
WATER RIGHTS
SALT LAKE

Pump Installation Details:

Type of Installation: [ ] New; [ ] Replacement; [✓] Repair; [ ] Other
Date of Installation (single date or range as applicable): 3-18-14
Type of Pump: [✓] Submersible; [ ] Lineshaft; [ ] Jet; [ ] Other
Pump Manufacturer: Simms; *Pump Model:* SS8LL-4
Number of Stages: 4; *Riser/Discharge Pipe Type/Size:* 4" Galv; *Shaft Size (in):*
Height of Casing Above Ground Surface (inches): 12 *Pump Intake Depth Below Top of Casing (ft):* 231
Pump Size (hp): 30; *Pump Capacity (gpm):* 336; *Static Water Level (ft below top of casing):* 183
Pumping Water Level (ft below top of casing):; *Shut-in Head for Flowing Wells (ft or psi):*
Artesian Flow (gpm): —; *Drawdown at End of Test (ft):* —
Pitless Installation: [ ] Yes; [✓] No Manufacturer:; *Model:*
Pitless Type: [ ] Pitless Adapter; [ ] Pitless Unit; [ ] Screw On; [ ] Welded; [ ] Compression
Method of Cutting Hole in Casing: —; *Depth of Pitless (ft BGS):* —
Pump Testing? [ ] Yes; [✓] No; Test Pumping Rate (gpm): —; *Test Pump Duration (hrs):*
Water Level Measurement Method: [ ] Airline; [✓] Electric Sounder; [ ] Steel Tape; [ ] Other
Discharge Measure Method: [ ] Bailer; [ ] Bucket/Barrel/Stopwatch' [ ] Current; [ ] Air Lift; [ ] Gauge; [ ] Meter; [ ] Orifice; [ ]Volume; [ ] Weir; [✓] Flume; [ ] Other
Down-hole Camera Survey? [ ] Yes; [✓] No Water Quality Sample Taken? [ ] Yes; [✓] No
Well and Pump Works Disinfected Upon Completion in accordance with R655-4? [✓] Yes; [ ] No
Comments by Installer: Pull Pump For Test + install 2" CTS Poly Pipe For Injection

Licensee Statement This pump work was conducted under my supervision, according to applicable rules and regulations, and this report is complete and correct to the best of my knowledge and belief.

Name: Robert Dunn / Glenn's Electric (Person, Firm, or Corporation - Print or Type) License No. 778

Signature of Licensee: [signature] (Licensed Well Driller or Pump Installer) Date 3-18-14

Note: All Pump work shall be performed in accordance with the provisions of the State of Utah Administrative Rules for Water Wells (Section R655-4 UAC).

[redacted] **Pump Log** [redacted]

Form 113—5M—12-60

Examined JUL 19 1978 7115
Recorded: B. C. T. B.
Inspection Sheet
Copied

REPORT OF WELL DRILLER
STATE OF UTAH

Application No. 9510
Claim No.
Coordinate No. (A-11-1) 23cad

GENERAL STATEMENT: Report of well driller is hereby made and filed with the State Engineer, in accordance with the laws of Utah. (This report shall be filed with the State Engineer within 30 days after the completion or abandonment of the well. Failure to file such reports constitutes a misdemeanor.)

(1) WELL OWNER:
Name Millville City
Address Millville, Utah

(2) LOCATION OF WELL:
County Cache Ground Water Basin (leave blank)
North 1830 feet, East 2070 feet from Corner
Sec. 22 T. 1 N. R. 1 E SLBM (strike out words not needed)

(3) NATURE OF WORK (check): New Well ☒
Replacement Well ☐ Deepening ☐ Repair ☐ Abandon ☐
If abandonment, describe material and procedure:

(4) NATURE OF USE (check):
Domestic ☐ Industrial ☐ Municipal ☒ Stockwater ☐
Irrigation ☐ Mining ☐ Other ☐ Test Well ☐

(5) TYPE OF CONSTRUCTION (check):
Rotary ☐ Dug ☐ Jetted ☐
Cable ☒ Driven ☐ Bored ☐

(6) CASING SCHEDULE: Threaded ☐ Welded ☐
12 " Diam. from 0 feet to 398 feet Gage .375
" Diam. from feet to feet Gage
" Diam. from feet to feet Gage
New ☒ Reject ☐ Used ☐

(7) PERFORATIONS: Perforated? Yes ☒ No ☐
Type of perforator used Mills
Size of perforations 5/8 inches by 3 inches
372 perforations from 264 feet to 322 feet
228 perforations from 300 feet to 347 feet
348 perforations from 331 feet to 356 feet
408 perforations from 367 feet to 389 feet
perforations from feet to feet

(8) SCREENS: Well screen installed? Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to
Diam. Slot size Set from ft. to

(9) CONSTRUCTION:
Was an gravel packed? Yes ☐ No ☒ Size of gravel
Gravel placed from feet to feet
Was a pump test made? Yes ☒ No ☐
If yes, to what depth: 100 feet
Material used to seal: Cement Grout
Did any strata contain unpotable water? Yes ☐ No ☒
Type of water Depth of strata
Method of shutting off strata
Was surface casing used? Yes ☒ No ☐
Was it cemented in place? Yes ☐ No ☒

(10) WATER LEVELS:
Static level 188 feet below land surface Date 3-8-78
Artesian pressure feet above land surface Date

LOG RECEIVED: RECEIVED JUL 17 1978

(11) FLOWING WELL:
Controlled by (check) Valve ☐
Cap ☐ Plug ☐ No Control ☐
Does well leak around casing? Yes ☐
No ☐

(12) WELL TESTS: Drawdown is the distance in feet the water level is lowered below static level.
Was a pump test made? Yes ☒ No ☐ If so, by whom? Rhodes Bros.
Yield: 1412 gal. min with 16 feet drawdown after 30 hours
" " " "
Bailer test gal. min with feet drawdown after hours
Artesian flow g.p.m. Date
Temperature of water 44 F. Was a chemical analysis made? No ☐ Yes ☐

(13) WELL LOG: Diameter of well 12 inches
Depth drilled 398 feet. Depth of completed well 398 feet.

NOTE: Place an "X" in the space or combination of spaces needed to designate the material or combination of materials encountered in each depth interval. Under REMARKS make any desirable notes as to occurrence of water and the color, size, nature, etc., of material encountered in each depth interval. Use additional sheet if needed.

DEPTH From	To	Clay	Silt	Sand	Gravel	Cobbles	Boulders	Hardpan	Conglomerate	Bedrock	Other	REMARKS
0	2										X	Top soil
2	17			X								Brown
17	24			X								"
24	40			X								Blue
40	50											"
50	52											"
52	62											"
62	78			X								Brown
78	117											"
117	122											Dry
122	232											Brown
232	255											Alternating sandstone/water
255	264											Water
264	292											Brown
292	300											Water
300	308											Brown
308	327											Water
327	331											Brown
331	364			X								Highly cemented (water)
364	368											Brown
368	398							X				Water

Work started 3-1-78, 19 Completed 3-8-78, 19

(14) PUMP:
Manufacturer's Name
Type H. P.
Depth of pump bowls feet

Well Driller's Statement:
This well was drilled under my supervision, and this report is true to the best of my knowledge and belief.

Name [illegible] Drilling Co. (Person, firm, or corporation) (Type or print)
Address [illegible], Utah
(Signed) [illegible] (Well Driller)
License No. [illegible] Date 4-3-78, 19

USE OTHER SIDE FOR ADDITIONAL REMARKS

RIGHTS

MICROFILMED

APPENDIX C
PHREEQ MODEL

```
#
# Input File:E:\PROJECTS\UMAR\Data\InSamplesMillville_v3.pqi
# Output File:E:\PROJECTS\UMAR\Data\InSamplesMillville_v3.pqo
# Input File:C:\Program Files (x86)\AquaChem\PHREEQC\wateq4f.dat
# Author/timestamp:paulinkenbrandt / 10/5/2015 4:29:25 PM


SELECTED_OUTPUT
-file   E:\PROJECTS\UMAR\Data\InSamplesMillvilleOut.pqo
-reset  true
-activities      Al+3 Ba+2 Ca+2 Cl- Fe+2 Mg+2 Mn+2 Na+ SO4-2
-saturation_indices      Calcite Anhydrite Gypsum Aragonite Talc
Albite Fluorite Halite Siderite Chalcedony Quartz Hematite Goethite
Pyrite Barite Witherite Willemite Dolomite
SOLUTION 15 Garr 10/15/2014
    temp      11
    pH        7.76
    pe        8.073259
    redox     pe
    units     mg/l
    density   1
    Ag        0.25 ug/l
    Al        5 ug/l
    Alkalinity 210 as CaCO3
    As        0.5 ug/l
    B         0.015
    Ba        0.05
    Ca        54.1
    Cl        4.9446
    Cu        1.049 ug/l
    Fe        0.01
    K         0.5
    Mg        25.6
    Mn        0.0025
    N(-3)     0.0225 as N
    N(5)      2.767 as NO3
    Na        4.29
    O(0)      9.36 as O2
    P         0.008
    Pb        0.1 ug/l
    S(6)      26.071 as SO4
    Si        7.45 as SiO2
    U(3)      1.2 ug/l       as U
    Zn        5 ug/l
    C(4)      0
    -water    1 # kg
SOLUTION 13 Glenridge 10/15/2014
    temp      11.7
    pH        6.96
```

```
    pe        3.416062
    redox     pe
    units     mg/l
    density   1
    Ag        0.25 ug/l
    Al        5 ug/l
    Alkalinity 323 as CaCO3
    As        0.5 ug/l
    B         0.0377
    Ba        0.22227
    Ca        81.5
    Cl        34.227
    Cu        12.591 ug/l
    Fe        0.01
    K         1.82
    Mg        44.9
    Mn        0.0025
    N(-3)     0.02254 as N
    N(5)      31.829 as NO3
    Na        14
    P         0.017
    Pb        2.608 ug/l
    S(6)      28.058 as SO4
    Si        13.8 as SiO2
    U(3)      1.84 ug/l       as U
    Zn        26.686 ug/l
    C(4)      0
    -water    1 # kg
SOLUTION 16 Arnold 10/15/2014
    temp      9.8
    pH        7.74
    pe        4
    redox     pe
    units     mg/l
    density   1
    Alkalinity 200 as CaCO3
    Ca        50
    Cl        12.2
    K         0.5
    Mg        27.9
    N(-3)     0.0225 as N
    N(5)      18.637 as NO3
    Na        11.1
    O(0)      8.51 as O2
    P         0.018
    S(6)      18.2 as SO4
    Si        9.6 as SiO2
    -water    1 # kg
SOLUTION 22 Glenridge 7/16/2015
    temp      10.5
```

```
    pH        7.6
    pe        2.719532
    redox     pe
    units     mg/l
    density   1
    Ag        0.25 ug/l
    Al        5 ug/l
    Alkalinity 253 as CaCO3
    As        0.5 ug/l
    B         0.015
    Ba        0.12862
    Br        0.0656
    Ca        66.5
    Cl        15.3
    Cu        9.639 ug/l
    Fe        0.01
    K         1.19
    Mg        31.4
    Mn        0.0025
    N(-3)     0.01288 as N
    N(5)      16.114 as NO3
    Na        14
    O(0)      7.57 as O2
    P         0.013
    S(6)      16.7 as SO4
    Zn        137.06 ug/l
    Pb        3.639 ug/L
    -water    1 # kg
SOLUTION 23 Arnold 7/15/2015
    temp      14.5
    pH        7.76
    pe        3.347737
    redox     pe
    units     mg/l
    density   1
    Ag        0.25 ug/l
    Al        5 ug/l
    Alkalinity 239 as CaCO3
    As        5 ug/l
    Ba        0.12345
    C(4)      0
    Ca        53.7
    Cl        12.3
    Cu        20.792 ug/l
    Fe        0.01
    K         3.73
    Mg        29.7
    Mn        0.007201
    N(5)      17.397 as NO3
    Na        12.7
```

```
    P          0.058
    S(6)       3.7725 as SO4
    -water     1 # kg
SOLUTION 21 Alder 7/16/2015
    temp       11.4
    pH         7.67
    pe         3.313354
    redox      pe
    units      mg/l
    density    1
    Al         5 ug/l
    Alkalinity 280 as CaCO3
    As         0.5 ug/l
    Ba         0.14835
    Br         0.01
    Ca         84.9
    Cl         22.5
    Cu         11.512 ug/l
    Fe         0.005
    K          1.44
    Mg         28.6
    Mn         0.0025
    N(5)       30.855 as NO3
    Na         7.95
    P          0.01
    S(6)       3.7725 as SO4
    -water     1 # kg
SOLUTION 33 Glenridge 4/1/2015
    temp       11.3
    pH         7.2
    pe         10.35123
    redox      pe
    units      mg/l
    density    1
    Alkalinity 212 as CaCO3
    Ca         55.9
    Cl         5.01
    K          0.5
    Mg         26.9
    N(-3)      0.0129 as N
    N(5)       3.014787 as NO3
    Na         4.13
    O(0)       7.52 as O2
    P          0.008
    S(6)       29.5 as SO4
    Si         7.46 as SiO2
    -water     1 # kg
SOLUTION 34 Arnold 4/1/2015
    temp       11.8
    pH         7.89
```

```
    pe        6.405078
    redox     pe
    units     mg/l
    density   1
    Alkalinity 182 as CaCO3
    As        0.5 ug/l
    C(4)      0
    Ca        49.8
    Cl        8.67
    Fe        0.0281
    K         2.63
    Mg        28.5
    N(-3)     0.055 as N
    N(5)      3.91 as N
    Na        12
    P         0.219
    S(6)      24.7 as SO4
    Si        9.42 as SiO2
    -water    1 # kg
SOLUTION 26 USU 6/9/2015
    temp      11.6
    pH        7.59
    pe        3.806794
    redox     pe
    units     mg/l
    density   1
    Al        50 ug/l
    Alkalinity 279 as CaCO3
    As        0.5 ug/l
    B         0.05
    Ca        70.6
    Cl        8.41
    Cu        5 ug/l
    Fe        0.05
    K         1.79
    Mg        28.4
    Mn        0.001
    N(-3)     0.016 as N
    N(3)      0.008 as NO2
    N(5)      4.737 as NO3
    Na        7.28
    O(0)      7.18 as O2
    P         0.0075
    S(6)      19.5 as SO4
    -water    1 # kg
SOLUTION 17 USU 10/16/2014
    temp      11.3
    pH        7.48
    pe        -4.431176
    redox     pe
```

```
    units      mg/l
    density    1
    Alkalinity 261 as CaCO3
    Ca         69.7
    Cl         9.1
    K          1.19
    Mg         26.6
    N(-3)      0.0225 as N
    N(5)       4.73689 as NO3
    Na         6.4
    O(0)       5.64 as O2
    P          0.014
    S(6)       27.5 as SO4
    Si         11 as SiO2
    -water     1 # kg
SOLUTION 29 USU 7/14/2014
    temp       20
    pH         7
    pe         4
    redox      pe
    units      mg/l
    density    1
    Al         50 ug/l
    Alkalinity 262 as CaCO3
    As         2 ug/l
    B          0.05
    Ba         0.0888
    Ca         66.2
    Cl         8.51
    K          2.06
    Mg         28.4
    Mn         0.0055
    N(3)       0.008 as NO2
    N(5)       5.843 as NO3
    Na         7.49
    P          0.157
    S(6)       21.3 as SO4
    -water     1 # kg
SOLUTION 35 USU 4/1/2015
    temp       11.1
    pH         7.32
    pe         4
    redox      pe
    units      mg/l
    density    1
    Alkalinity 246 as CaCO3
    As         0.5 ug/l
    Ca         70.3
    Cl         8.52
    Fe         210
```

```
    K          1.46
    Mg         27.2
    Na         6.62
    O(0)       7.58 as O2
    S(6)       25 as SO4
    Si         9.82 as SiO2
    -water     1 # kg
SOLUTION 20 Alder 6/9/2015
    temp       12.1
    pH         7.24
    pe         3.923843
    redox      pe
    units      mg/l
    density    1
    Ag         0.25 ug/l
    Al         5 ug/l
    Alkalinity 287 as CaCO3
    As         0.5 ug/l
    B          0.015
    Ba         0.1308
    Ca         91.2
    Cl         21.8
    Fe         0.01
    K          1.55
    Mg         32.2
    Mn         0.0025
    N(-3)      0.01288 as N
    N(5)       35.104 as NO3
    Na         8.47
    O(0)       7.2 as O2
    P          0.01
    S(6)       11.8 as SO4
    Zn         25.784 ug/l
    -water     1 # kg
SELECTED_OUTPUT 2
    -file                 selected_output_5.txt
    -high_precision       true
    -reset                true
    -totals               Alkalinity  As(3)  As(5)  As  Cu  Cu(1)
Cu(2)
                          Fe  Fe(3)  Fe(2)  Mn  Mn(2)  Mn(3)  Mn(6)
                          Mn(7)  N  N(0)  N(3)  N(-3)  N(5)  Ca
                          C  Ba  O(0)  P  Pb  S  S(-2)
                          S(6)  Si  U  U(3)  U(4)  U(5)  U(6)
                          Zn
    -molalities           Ba+2  BaCO3  BaSO4  Br-
                          Ca+2  CaCO3  CaPO4-  CH4
                          Cu+  Cu+2  CO2  CO3-2
                          F-  Fe+2  Fe+3  FeOH+
                          FeOH+2  H2S  HCO3-  K+
```

```
                            Mg+2  Mn+2  Mn+3  Na+
                            N2  Pb+2  O2  OH-
                            NO3-  NO2-  NH4X  NH4+
                            NH3  SO4-2  Zn+2
    -saturation_indices     Anhydrite  Aragonite  Arsenolite  Barite
                            Ba3(AsO4)2  Calcite  Ca3(AsO4)2:4w
Chalcopyrite
                            Chalcocite  CO2(g)  Covellite  Cu(OH)2
                            Cu2(OH)3NO3  Cu2SO4  Cu3(AsO4)2:6w
Cu3(PO4)2
                            Cu3(PO4)2:3H2O  CuCO3  Cuprite  CuSO4
                            Fe3(OH)8  FeS(ppt)  Galena  Gibbsite
                            Goethite  Gypsum  H2S(g)  Halite
                            Mn2(SO4)3  MnSO4  Manganite  N2(g)
                            NH3(g)  O2(g)  Orpiment  Pb(OH)2
                            Pb2O3  Pb4(OH)6SO4  PbMetal  SiO2(a)
                            Siderite  Sphalerite  Zincite(c)  Witherite
                            Zn2(OH)2SO4  Zn(OH)2-a  ZnCl2  ZnO(a)
                            ZnS(a)  ZnSO4:H2O  Acanthite  Adularia
                            AgMetal  Alunite  Analcime  Anglesite
                            Artinite  As_native  As2O5(cr)  As2S3(am)
                            Atacamite  Autunite  Bixbyite  Bassetite
                            Brucite  Cerrusite  CH4(g)  Chalcedony
                            CuF  Cristobalite  CuMetal  CupricFerrite
                            CuprousFerrite  Fluorapatite  Fluorite
Massicot
                            Millerite  Montmorillonite-Ca  Illite
PbSiO3
                            PbO:0.3H2O  Pyrolusite  Pyrophyllite
Realgar
                            Sulfur  Uraninite(c)  Wurtzite  Willemite
    -inverse_modeling       true
end

TITLE 10% Injectate 90% Host
MIX 1
    13    0.9
    15    0.1
SAVE solution 41
END
TITLE 20% Injectate 80% Host
MIX 2
    15    0.2
    13    0.8
SAVE solution 42
END
TITLE 30% Injectate 70% Host
MIX 3
    15    0.3
    13    0.7
```

```
SAVE solution 43
END
TITLE 40% Injectate 60% Host
MIX 4
    15    0.4
    13    0.6
SAVE solution 44
END
TITLE 50% Injectate 50% Host
MIX 5
    15    0.5
    13    0.5
SAVE solution 45
END
TITLE 60% Injectate 40% Host
MIX 6
    15    0.6
    13    0.4
SAVE solution 46
END
TITLE 70% Injectate 30% Host
MIX 7
    15    0.7
    13    0.3
SAVE solution 47
END
TITLE 80% Injectate 20% Host
MIX 8
    15    0.8
    13    0.2
SAVE solution 48
END
TITLE 90% Injectate 10% Host
MIX 9
    15    0.9
    13    0.1
SAVE solution 49

END
```

```
TITLE Glenridge (33) to Glenridge (22) Major
INVERSE_MODELING 1
    -solutions      13       15       22
    -uncertainty    0.05     0.05     0.05
    -phases
        Gypsum
        NH4X
        As_native
        Halite
        NH3(g)
        N2(g)
        H2S(g)
        Sylvite
        MgX2
        NaX
        Galena
        Sphalerite
    -balances
        Ca          0.05     0.05     0.05
        Cl          0.05     0.05     0.05
        S(6)        0.05     0.05     0.05
        Mg          0.05     0.05     0.05
        K           0.05     0.05     0.05
        N(5)        0.05     0.05     0.05
        Na          0.05     0.05     0.05
        Alkalinity  0.05     0.05     0.05
        Pb          0.05     0.05     0.05
        As          0.05     0.05     0.05
        Zn          0.05     0.05     0.05
    -range             1000
    -minimal
    -tolerance         1e-10
    -mineral_water     false
    -multiple_precision     true
    -mp_tolerance 1e-12
    -censor_mp 1e-20
PHASES
Sylvite
    KCl = Cl- + K+
    log_k     0.8797
    delta_h   4.165 kcal
end
TITLE Glenridge (33) to Glenridge (22) Major
INVERSE_MODELING 1
    -solutions      13       15       22
    -uncertainty    0.03     0.03     0.04
```

```
    -phases
        Gypsum
        NH4X
        As_native
        Halite
        NH3(g)
        N2(g)
        H2S(g)
        Sylvite
        MgX2
        NaX
        Galena
        Sphalerite
        CuSO4
        Pyrite
        Sulfur
    -balances
        Ca          0.03     0.03     0.04
        Cl          0.03     0.03     0.04
        S(6)        0.03     0.03     0.04
        Mg          0.03     0.03     0.04
        K           0.03     0.03     0.04
        N(5)        0.03     0.03     0.04
        Na          0.03     0.03     0.04
        Alkalinity  0.03     0.03     0.04
        Pb          0.03     0.03     0.04
        As          0.03     0.03     0.04
        Zn          0.03     0.03     0.04
        Cu          0.03     0.03     0.04
    -range             1000
    -minimal
    -tolerance         1e-10
    -mineral_water     false
    -multiple_precision     true
    -mp_tolerance 1e-12
    -censor_mp 1e-20
PHASES
Sylvite
    KCl = Cl- + K+
    log_k     0.8797
    delta_h   4.165 kcal
end
```

APPENDIX D
USU WATER LAB RETURN

Results table for groundwater samples collected October 15 and 16, 2014

Sample	caffeine (ng/L)	sulfamethoxazole (ng/L)	carbamazepine (ng/L)	DEET (ng/L)
Reagent water* blank	< 5 ng/L	< 1 ng/L	< 1 ng/L	< 2 ng/L
S1	< 5 ng/L	10.46	< 1 ng/L	< 2 ng/L
S2	8.34	10.38	< 1 ng/L	< 2 ng/L
S3	8.57	< 1 ng/L	< 1 ng/L	< 2 ng/L
S4	< 5 ng/L	12.55	< 1 ng/L	< 2 ng/L
S5	< 5 ng/L	< 1 ng/L	< 1 ng/L	3.94
S5 duplicate	< 5 ng/L	< 1 ng/L	< 1 ng/L	4.10
S3 Matrix Spike	117	106	109	97
S3 Matrix Spike Dup	142	128	136	118
Lab Control Sample**	105.83	91.97	94.36	94.09

*Burdick and Jacson High Purity Water, Lot: DG-761-C
**Lab control sample = 50 ng spike in 250 mL reagent water

QA/QC results table

LCS (ng/L)	105.8	92.0	94.4	94.1
% recovery	53%	46%	47%	47%

Matrix Spike Data				
	caffeine (ng/L)	sulfamethoxazole (ng/L)	carbamazepine (ng/L)	DEET (ng/L)
S3 (unspiked)	8.57	< 1 ng/L	< 1 ng/L	< 2 ng/L
S3 matrix spike	117	106	109	97
S3 matrix spike duplicate	142	128	136	118
recovery, %				
matrix spike	58%	53%	54%	48%
matrix spike duplicate	71%	64%	68%	59%
RPD	20%	19%	22%	20%

Sample Duplicate Data				
	caffeine (ng/L)	sulfamethoxazole (ng/L)	carbamazepine (ng/L)	DEET (ng/L)
S5	< 5 ng/L	< 1 ng/L	< 1 ng/L	3.94
S5 duplicate	< 5 ng/L	< 1 ng/L	< 1 ng/L	4.10
RPD				4%

Samples S1, S2, S3 were collected on October 15, 2014
Samples S4 and S5 were collected on October 16, 2014
Samples received at UWRL on October 16, 2014
Samples extracted on October 22, 2014
Samples analyzed on October 23, 2014

Extraction: 250 mL sample through Oasis HLB (500 mgx 6cc), 20 mL DI wash, elute 10 mL methanol
Analysis: Agilent 1290 ultra HPLC with a 6490 triple quadrupole MS
Column: Agilent Eclipse+ C18 (5 cm x 1.8 um)
Mobile phase: A = 0.1% Formic acid in water, B = 90/10 Acetonitrile/water with 0.1% formic acid
Gradent elution: isocratic 0-1 min at 5%B, linear increase to 5 min, isocratic 5-6 min at B = 98%

APPENDIX E
WATER LEVEL DATA

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
1	103		4828	4815	USGS	8151	19620813	(A-10- 1)21aab- 1	413550111500601	430348	4605388	19	8/13/62	3/6/91	13.5	13.9	1.3	11.0	15.5
2	18	80	4820	4810	USGS	438519	1967	(A-10- 1)16ddb- 1	413601111500801	430305	4605727	1	5/20/15	5/20/15	10.0	10.0		12.0	12.0
3	16		4820	4811	USGS		1967	(A-10- 1)16dad- 1	413609111495701	430562	4605972	170	9/26/68	3/10/15	9.3	10.1	1.5	4.1	10.7
12	178		4684	4667	USGS	427236	19800605	(B-10- 1)11dad- 1	413704111543801	424075	4607734	10	6/5/80	3/6/91	16.8	17.8	5.1	3.0	20.8
14	187		4645	4649	USGS	28975	195508	(A-10- 1) 6ccc	413738111532601	425821	4608733	1	3/22/67	3/22/67	-4.0	-4.0		-4.0	-4.0
16	630		4803	4499	USGS	31570	19750308	(A-10- 1) 3ccc	413738111495701	430681	4608715	1	2/19/78	2/19/78	304.0	304.0		301.0	301.0
17	472		4794	4496	USGS	31571	19630511	(A-10- 1) 4daa	413802111500001	430596	4609457	1	5/19/63	5/19/63	298.0	298.0		298.0	298.0
19	85		4813	4752	USGS	7380	19940923	(A-10- 1) 3bdd- 1	413805111492201	431399	4609532	98	5/1/96	8/19/15	61.6	62.8	3.4	54.0	66.0
22	129		4584	4489	USGS	10600	19860517	(B-10- 1) 1aaa	413824111533001	425791	4610177	7	9/17/98	10/23/09	94.8	94.8	2.7	91.3	99.6
24	134		4581	4574	USGS	18341	36120	(B-10- 1) 1aaa- 3	413827111532501	425791	4610276	1	10/31/68	10/31/68	7.0	7.0		7.0	7.0
25	355		4616	4492	USGS	25776	19680215	(A-11- 1)32dcc	413838111513901	428339	4610589	1	8/20/02	8/20/02	124.0	124.0		107.0	107.0
26	186		4663	4505	USGS	427493	1968	(A-11- 1)34dca- 1	413841111490401	431833	4610647	1	8/6/68	8/6/68	158.0	158.0		158.0	158.0
33	195		4504	4492	USGS	6677	19831005	(B-11- 1)36abb	413916111535901	425113	4611825	1	10/19/83	10/19/83	12.0	12.0		12.0	12.0
36	441		4620	4500	USGS	2741	19760417	(A-11- 1)28dad	413936111496001	430624	4612355	1	4/14/76	4/14/76	120.0	120.0		120.0	120.0
38	290		4651	4496	USGS	32329	19790424	(A-11- 1)27adb- 1	413958111485901	431958	4612998	6	5/17/79	9/15/08	155.1	153.8	4.6	149.8	162.4
42	55		4444	4455	USGS	1719	1921	(B-11- 1)26abd	414007111545801	423765	4613381	1	3/11/91	3/11/91	-11.4	-11.4		-11.4	-11.4
44			4460	4477	USGS	7489	34609	(B-11- 1)24ccc- 1	414017111542701	424392	4613683	1	12/12/67	12/12/67	-17.0	-17.0		-17.0	-17.0
49	150		4516	4494	USGS	31670	19780307	(A-11- 1)20dbb- 1	414038111513701	428323	4614287	79	3/16/78	3/10/15	22.2	22.7	2.6	15.2	27.7
56	105		4460	4479	USGS	21751	20000328	(B-11- 1)24ada	414053111532901	425815	4614840	1	11/5/68	11/5/68	-19.0	-19.0		-19.0	-19.0
57			4485	4494	USGS	427939	19680525	(A-11- 1)19aab	414103111522801	427205	4615103	1	5/19/68	5/19/68	-9.0	-9.0		-2.0	-2.0
61	112		4443	4478	USGS	18190	36060	(B-11- 1)13cdd- 1	414109111540301	424964	4615281	1	1/4/68	1/4/68	-35.0	-35.0		-35.0	-35.0
62	385		4680	4500	USGS	2722	19730731	(A-11- 1)15ddb	414116111490701	431914	4615424	1	9/6/73	9/6/73	180.0	180.0		180.0	180.0
71	115		4447	4478	USGS	28862		(B-11- 1)13daa- 1	414127111532801	425779	4615827	1	1/19/68	1/19/68	-31.0	-31.0		-31.0	-31.0
72	113		4439	4474	USGS	438008	1934	(B-11- 1)13dbb- 1	414128111535801	425086	4615865	1	1/4/68	1/4/68	-35.0	-35.0		-35.0	-35.0
73	136		4434	4460	USGS	28634	19520619	(B-11- 1)14dba	414133111545701	423746	4616003	1	6/19/52	6/19/52	-26.0	-26.0		-26.0	-26.0
74	139		4502	4501	USGS	33677	19730416	(A-11- 1)17daa- 1	414133111511001	428971	4615980	2	4/16/73	3/7/91	1.0	1.0	1.4	0.0	2.0
75	102		4452	4425	USGS	10647	19520511	(A-11- 1)18caa	414132111525601	426613	4616004	1	4/29/68	4/29/68	27.0	27.0		27.0	27.0
79	146		4464	4488	USGS	426854	19671116	(A-11- 1)18add- 1	414135111522401	427261	4616059	1	11/17/67	11/17/67	-24.0	-24.0		-24.0	-24.0
84	145		4570	4500	USGS	5561	19910314	(A-11- 1)15bdb- 1	414141111493601	431140	4616211	28	3/27/91	8/22/12	69.9	71.3	3.8	61.6	77.4
85	136		4486	4491	USGS	20512	19680930	(A-11- 1)17bda	414142111514601	428188	4616265	1	10/8/68	10/8/68	-5.0	-5.0		-5.0	-5.0
95	96		4436	4470	USGS	6121	19240601	(A-11- 1) 7ccd- 2	414201111531301	426137	4616872	1	4/12/68	4/12/68	-34.0	-34.0		-34.0	-34.0
96	104		4435	4466	USGS	26753	19860610	(B-11- 1)12ddc	414159111533001	425813	4616876	1	3/19/91	3/19/91	-31.0	-31.0		-31.0	-31.0
97	97		4434	4466	USGS	27749	1936	(B-11- 1)12dcd	414160111534801	425397	4616880	1	4/21/36	4/21/36	-32.0	-32.0		-32.0	-32.0
104	186		4508	4486	USGS	35803	19660920	(A-11- 1)10cca	414207111495101	430876	4616979	1	9/19/66	9/19/66	22.0	22.0		9.0	9.0
105	138		4482	4497	USGS	427238	19801128	(A-11- 1) 8ddc- 2	414206111512001	428750	4617000	1	11/28/80	11/28/80	-15.0	-15.0		-15.0	-15.0
106			4438	4471	USGS	33878	26451	(A-11- 1) 7ccd- 1	414207111531301	426138	4617057	1	4/14/68	4/14/68	-33.0	-33.0		-33.0	-33.0
107	220		4424	4452	USGS	18049	19540804	(B-11- 1)12ccb	414208111543801	424267	4617108	1	10/7/68	10/7/68	-28.0	-28.0		-28.0	-28.0
110	150		4424	4404	USGS	9474	1916	(B-11- 1)11dda	414210111544101	424221	4617201	1	9/19/84	9/19/84	20.0	20.0		-39.0	-39.0
112			4476	4492	USGS	32159	28412	(A-11- 1) 9cbc- 1	414214111510201	429168	4617243	1	10/20/67	10/20/67	-16.0	-16.0		-16.0	-16.0
113	366		4643	4509	USGS	2803	19651102	(A-11- 1)10dad	414216111485601	432174	4617275	1	10/19/65	10/19/65	134.0	134.0	5.2	138.0	145.4
121	200		4425	4458	USGS	26677	19520604	(B-11- 1)12bcc	414228111543701	424297	4617755	1	10/7/68	10/7/68	-33.0	-33.0		-33.0	-33.0
123	227	201	4424	4447	USGS	1578	19920805	(B-11- 1)11add	414230111544301	424159	4617818	1	8/19/92	8/19/92	-23.1	-23.1		-37.0	-37.0
126	195		4490	4506	USGS	35815	19780206	(A-11- 1) 9adb	414234111501701	430261	4617880	1	2/19/78	2/19/78	-16.0	-16.0		-7.0	-7.0
129	136		4465	4482	USGS	33618	19730611	(A-11- 1) 8aca- 1	414237111512801	428575	4617958	1	6/11/73	6/11/73	-17.0	-17.0		-17.0	-17.0
135			4491	4483	USGS	35817		(A-11- 1) 9aac	414243111501601	430263	4618126	1	6/20/68	6/20/68	8.0	8.0		8.0	8.0
136			4497	4486	USGS	1953		(A-11- 1) 9aab- 1	414247111500701	430449	4618248	1	2/19/92	2/19/92	11.0	11.0		-4.0	-4.0
142	195		4424	4396	USGS	26069	1962	(B-11- 1)12bbb	414250111543801	424280	4618403	1	7/20/10	7/20/10	28.0	28.0		-30.0	-30.0
149	190		4434	4464	USGS	3347	34156	(B-11- 1) 1ddc- 1	414257111533501	425646	4618605	1	4/6/43	4/6/43	-30.0	-30.0		-30.0	-30.0
152	127		4531	4494	USGS	26841	19620413	(A-11- 1) 3dcb	414301111492201	431540	4618669	1	6/16/66	6/16/66	37.0	37.0		37.0	37.0
153	155	159	4436	4438	USGS	433615	1925	(A-11- 1) 6ccb	414303111532901	425856	4618818	1	2/19/92	2/19/92	-2.3	-2.3	4.5	-30.0	-23.7
159	240	270	4424	4381	USGS	16201	19970711	(B-11- 1) 2dad	414310111544201	424194	4619021	1	7/19/97	7/19/97	43.0	43.0		-14.0	-14.0
160	970		4487	4490	USGS	2694	19790910	(A-11- 1) 4cba	414312111505601	429371	4619030	2	6/20/80	3/21/91	-3.0	-3.0	2.8	-4.9	-1.0
165	154		4451	4483	USGS	433883	19750708	(A-11- 1) 5cbb	414315111521401	427593	4619201	1	10/9/54	10/9/54	-32.0	-32.0		-32.0	-32.0
172	70		4430	4471	USGS	29328	1920	(B-11- 1) 1bdd	414319111540701	425006	4619290	1	11/8/67	11/8/67	-41.0	-41.0	36.9	-41.0	-41.0
176	335		4589	4496	USGS	2848	19800729	(A-11- 1) 3adc	414323111490801	431870	4619375	2	8/21/80	4/3/91	92.5	92.5	29.0	72.0	113.0

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
181	140		4547	4512	USGS	2823	1934	(A-11- 1) 3bda	414329111493301	431317	4619504	65	10/13/36	4/3/91	35.4	34.7	4.3	29.1	52.0
185	192		4598	4460	USGS	2836	1934	(A-11- 1) 3abd	414332111491201	431780	4619623	2	10/24/67	4/3/91	138.0	138.0	48.1	104.0	172.0
191	130		4456	4489	USGS	434624	1900	(A-11- 1) 5aba	414340111513501	428455	4619902	1	10/16/67	10/16/67	-33.0	-33.0		-33.0	-33.0
192	180		4433	4450	USGS	35632	20060818	(A-11- 1) 6bba	414343111531401	426169	4620049	1	8/7/68	8/7/68	-17.0	-17.0		-17.0	-17.0
194	1000		4551	4496	USGS	2677	19630301	(A-12- 1)34cca	414353111494501	431093	4620277	1	3/1/91	3/1/91	55.0	55.0		55.0	55.0
195	123		4447	4463	USGS	427266	19730712	(A-12- 1)32cac- 1	414402111515101	428069	4620585	1	7/12/73	7/12/73	-16.0	-16.0		-16.0	-16.0
200	119		4454	4470	USGS	434625	19500418	(A-12- 1)32dba	414405111513501	428486	4620673	37	8/7/62	3/13/91	-15.9	-16.1	2.3	-18.7	-3.7
201	108		4442	4470	USGS	35586	19560504	(A-12- 1)32bba- 1	414405111520601	427724	4620681	1	6/6/68	6/6/68	-28.0	-28.0		-28.0	-28.0
210	150		4442	4464	USGS	31603	19781121	(A-12- 1)32bcd	414411111521001	427679	4620835	1	5/1/44	5/1/44	-22.0	-22.0		-22.0	-22.0
211	107		4441	4411	USGS	35587	19590702	(A-12- 1)32bcc	414411111521301	427610	4620836	1	7/19/59	7/19/59	30.0	30.0		-11.0	-11.0
216	206		4441	4401	USGS	35589	19590000	(A-12- 1)32bcd	414413111521101	427680	4620928	1	8/19/59	8/19/59	40.0	40.0		-12.0	-12.0
222	110		4444	4471	USGS	25940		(A-12- 1)32bda- 1	414419111514801	428144	4621108	1	3/27/68	3/27/68	-27.0	-27.0		-27.0	-27.0
228	137		4469	4488	USGS	4320	34227	(A-12- 1)32ada- 2	414423111511401	428930	4621224	1	4/14/43	4/14/43	-19.0	-19.0		-19.0	-19.0
233	434		4785	4505	USGS	433990	19831202	(A-12- 1)35bab	414437111483401	432676	4621588	1	12/2/83	12/2/83	280.0	280.0		280.0	280.0
235	470		4634	4470	USGS	2679	196110	(A-12- 1)27dcd	414441111491001	431869	4621750	2	2/28/67	3/1/91	164.0	164.0	22.6	148.0	180.0
237	60		4486	4494	USGS	7602	193406	(A-12- 1)28cca	414445111505801	429353	4621898	1	8/23/67	8/23/67	-8.0	-8.0		-8.0	-8.0
243	800		4553	4490	USGS	2675	19630506	(A-12- 1)27cab	414460111493901	431205	4622312	2	3/7/68	3/1/91	63.0	63.0	12.7	54.0	72.0
248	150		4487	4496	USGS	29006		(A-12- 1)28bdc- 1	414509111504501	429614	4622636	1	6/6/68	6/6/68	-9.0	-9.0		-9.0	-9.0
255	147		4489	4536	USGS	10698	19860715	(A-12- 1)28baa	414526111504001	429804	4623127	1	7/19/86	7/19/86	-46.2	-46.2		-10.0	-10.0
259	161		4437	4458	USGS	427651	19670405	(A-12- 1)30aaa	414528111522801	427334	4623245	1	4/19/67	4/19/67	-21.0	-21.0		-21.0	-21.0
266	57		4494	4499	USGS	28093	1957	(A-12- 1)21dbd	414543111502401	430225	4623678	1	10/1/57	10/1/57	-5.0	-5.0		-5.0	-5.0
278	134		4433	4449	USGS	427178	19831017	(A-12- 1)19bdc	414558111531301	426304	4624149	1	3/26/91	3/26/91	-16.2	-16.2		-16.2	-16.2
281			4445	4453	USGS	438211		(A-12- 1)20bda- 1	414607111514601	428223	4624438	1	5/1/68	5/1/68	-8.0	-8.0		-8.0	-8.0
288	210		4486	4474	USGS	426884	26180	(A-12- 1)15ccb- 1	414634111495501	430794	4625246	1	4/16/69	4/16/69	12.0	12.0		12.0	12.0
300	313	133	4684	4594	UDWR	24679	20020310	(B-10- 1) 1cdc	413738111541701	424647	4608793	1	3/20/02	3/20/02	90.0	90.0			
301	506		4586	4485	UDWR	26129	20030307	(A-11- 1)28aca	413955111502201	430112	4612960	1	3/20/03	3/20/03	101.0	101.0			
302	145		4474	4472	UDWR	27396		(A-11- 1)19baa	414105111525501	426597	4615153	1	6/20/03	6/20/03	1.5	1.5			
303	490	320	4801	4501	UDWR	27876	20031110	(A-10- 1)10bcc	413713111495401	430720	4607952	1	11/20/03	11/20/03	300.0	300.0			
304	100		4752	4694	UDWR	33497	20050216	(A-11- 1)34cad	413843111492801	431353	4610727	1	2/20/05	2/20/05	58.2	58.2			
305	100		4792	4724	UDWR	33498	20050219	(A-11- 1)34dcb	413838111492301	431463	4610555	1	2/20/05	2/20/05	67.2	67.2			
306	150		4528	4497	UDWR	428550	20061217	(A-11- 1)29acd	413954111513301	428480	4612950	1	6/20/08	6/20/08	31.0	31.0			
307	66	36	4793	4752	UDWR	7379	19940919	(A-10- 1) 3bdc	413809111493801	431113	4609672	1	9/19/94	9/19/94	41.0	41.0			
309	661		4577	4477	UDWR	22493	20010420	(A-12- 1)35cba	414407111483901	432582	4620698	1	6/20/01	6/20/01	100.5	100.5			
312	118		4445	4445	UDWR	6620	19940629	(A-11- 1)18bdc	414135111530901	426293	4616068	1	6/29/94	6/29/94				0.0	0.0
313	330		4704	4529	UDWR	19826	19990230	(A-10- 1) 2bbc	413822111484701	432289	4610056	1	8/19/99	8/19/99	175.0	175.0			
314	369		4423	4380	UDWR	34222	20050706	(B-11- 1) 2dab	414316111544901	424003	4619229	1	7/20/05	7/20/05	43.0	43.0			
315	340		4740	4590	UDWR	20761	20000322	(A-11- 1)23cdc	414018111483001	432721	4613633	1	3/20/00	3/20/00	150.0	150.0			
316	160		4535	4486	UDWR	20835	19991021	(B-10- 1) 1bab	413828111541801	424637	4610318	1	10/19/99	10/19/99	49.0	49.0			
318	329		4831	4616	UDWR	21445	20000211	(A-10- 1)15bac	413634111493601	431121	4606756	1	2/20/00	2/20/00	215.0	215.0			
320	285		4816	4772	UDWR	34430	20050908	(A-10- 1)21bad	413540111503401	429757	4605094	1	9/20/05	9/20/05	44.0	44.0			
321	160		4435	4435	UDWR	24048	20010808	(B-11- 1)13bac	414147111540401	425014	4616458	1	8/8/01	8/8/01				0.0	0.0
322	159		4514	4486	UDWR	24047	20010820	(A-11- 1)29bcd	413951111520701	427688	4612846	1	8/20/01	8/20/01	28.0	28.0			
323	179		4656	4611	UDWR	25158	20020511	(A-10- 1) 6ccd	413738111531401	426096	4608765	1	5/20/02	5/20/02	45.0	45.0			
324	200	156	4573	4515	UDWR	25310	20020610	(B-10- 1) 1dbd	413754111534801	425323	4609269	1	6/20/02	6/20/02	58.0	58.0			
325	169		4451	4432	UDWR	27530	20030528	(B-11- 1)23dab	414040111545201	423893	4614406	1	5/20/03	5/20/03	18.5	18.5			
326	86		4534	4497	UDWR	430671	20071026	(A-11- 1)29ada	413958111511201	428952	4613062	1	11/20/07	11/20/07	37.0	37.0			
327	421		4714	4707	UDWR	34453	20050727	(A-10- 1) 7bcc	413713111532601	425799	4608005	1	7/20/05	7/20/05	7.0	7.0			
328	152	115	4557	4549	UDWR	21915	20000516	(A-11- 1)15bca	414141111494401	431030	4616210	1	5/20/00	5/20/00	8.0	8.0			
329	246		4797	4687	UDWR	427270	19690905	(A-10- 1)16abb	413645111502501	429992	4607087	1	9/19/69	9/19/69	110.0	110.0			
331	199		4632	4491	UDWR	35648	20060526	(A-11- 1)27acb	413956111492001	431552	4612969	1	8/20/06	8/20/06	141.0	141.0			
332	140		4575	4487	UDWR	434134				425228	4609745	1	9/20/10	9/20/10	88.0	88.0			
333	200		4625	4491	UDWR	35576	20060511	(A-11- 1)27aca	413959111491501	431662	4613073	1	5/20/06	5/20/06	134.0	134.0			
335	130		4480	4480	UDWR	428817	20070203	(A-11- 1)19bcc	414042111532001	426014	4614434	1	9/4/08	9/4/08				0.0	0.0
336	198		4777	4635	UDWR	429614	20070508	(A-10- 1) 9cdd	413645111504801	429462	4607108	1	6/20/07	6/20/07	142.0	142.0			
338	326		4860	4640	UDWR	428388	20061103	(A-10- 1) 8cdc	413650111515801	427835	4607271	1	11/20/06	11/20/06	220.0	220.0			

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
339	136		4453	4453	USGS	427467	20060924	(A-11- 1)18ada	414140111522501	427311	4616231	1	10/6/06	10/6/06				0.0	0.0
340	200	180	4953	4795	UDWR	17490	19980602	(A-10- 1)14bbb	413642111484501	432306	4606992	1	6/19/98	6/19/98	158.0	158.0			
341	321		4788	4725	UDWR	12123	19960624	(A-10- 1) 7dbd	413660111523801	426911	4607583	1	6/19/96	6/19/96	63.0	63.0			
342	166		4552	4499	UDWR	432055	20081002	(A-11- 1) 3abc	414332111491801	431666	4619653	1	11/20/08	11/20/08	53.0	53.0			
343	240	253	4428	4427	UDWR	7515	19941003	(B-11- 1) 1bdd	414320111541201	424894	4619303	1	10/19/94	10/19/94	1.0	1.0			
344	340		4423	4423	UDWR	34218	20050616	(B-12- 1)36ccc	414345111543401	424362	4620122	1	6/25/05	6/25/05				0.0	0.0
345	140		4575	4481	UDWR	434359	20110601	(B-10- 1) 1adb	413811111534001	425506	4609790	1	6/20/11	6/20/11	94.0	94.0			
346	112		4454	4454	USGS	431554	20080703	(A-11- 1)18acc	414134111525001	426695	4616039	1	7/9/08	7/9/08				0.0	0.0
347	585		4729	4706	UDWR	431371	20080922	(B-10- 1)14aaa	413640111544001	424077	4607008	1	10/20/08	10/20/08	23.0	23.0			
348	127		4454	4486	UDWR	431274	20080424	(B-11- 1)24abd	414058111535101	425306	4614956	1	9/20/08	9/20/08	-32.0	-32.0			
349	215		4776	4617	UDWR	431990	20081018	(A-10- 1) 9cdd	413647111504701	429475	4607172	1	11/20/08	11/20/08	159.0	159.0			
350	137		4805	4784	UDWR	432681				425641	4607168	1	4/20/09	4/20/09	21.0	21.0			
351	200	155	4804	4774	UDWR	21754	20000327	(A-10- 1) 7ddb	413652111523201	427054	4607343	1	3/20/00	3/20/00	30.0	30.0			
352	237		4552	4486	UDWR	23341	20010326	(B-10- 1) 1aba	413829111534701	425356	4610345	1	6/20/01	6/20/01	66.0	66.0			
353	219		4426	4451	USGS	24271	20010928	(B-11- 1)11dda	414208111544101	424169	4617113	1	10/20/01	10/20/01	-25.4	-25.4			
354	205		4434	4438	UDWR	10620	19951101	(B-11- 1)14acd	414134111550401	423636	4616078	1	11/19/95	11/19/95	-4.6	-4.6			
355	161		4434	4402	USGS	434098	20100819	(B-11- 1)14dab	414132111544901	423975	4616015	1	8/20/10	8/20/10	32.0	32.0			
356	179		4457	4467	UDWR	131		(B-11- 1)23adc	414042111545101	423900	4614478	1	4/19/92	4/19/92	-10.0	-10.0			
357	168	168	4493	4490	UDWR	9664	19840209	(A-11- 1)19dbb	414035111525201	426655	4614221	1	2/19/84	2/19/84	3.0	3.0			
359	110		4442	4459	UDWR	432854	19690201	(A-11- 1) 7acb	414236111525301	426679	4617940	1	2/19/69	2/19/69	-17.0	-17.0			
360	110		4443	4443	UDWR	4421		(A-11- 1)18bcc	414134111532101	426011	4616051	1	10/6/93	10/6/93				0.0	0.0
363	354	180	4778	4756	UDWR	5506	19941020	(A-10- 1)11aad	413729111474301	433752	4608430	1	10/19/94	10/19/94	22.0	22.0			
364	242		4424	4429	UDWR	10822	19951108	(B-11- 1) 1ccb	414303111543801	424256	4618820	1	11/19/95	11/19/95	-4.6	-4.6			
365	158		4497	4489	USGS	431815		(A-11- 1)16bcb	414141111511001	429037	4616232	1	11/20/08	11/20/08	8.0	8.0			
366	151		4454	4454	USGS	2066		(A-12- 1)16cbd	414640111505601	429463	4625450	1	3/4/93	3/4/93				0.0	0.0
367	220		4438	4418	UDWR	435386		(A-11- 1) 6bab	414338111531001	426336	4619877	1	11/20/11	11/20/11	20.0	20.0			
372	195		4442	4533	USGS	10191		(A-12- 1)32bcd	414415111520501	427803	4620992	1	11/19/86	11/19/86	-90.1	-90.1			
374	144		4485	4479	USGS	428337	19630910	(A-11- 1)17bdd	414138111514901	428146	4616162	1	9/19/63	9/19/63	6.0	6.0			
376	140		4486	4470	UDWR	32309		(A-12- 1)28bdb	414514111504901	429591	4622793	1	4/19/77	4/19/77	16.0	16.0			
383	232		4665	4665	UDWR	426995	19700330	(A-11- 1)33daa	413851111500301	430546	4610979	1	3/27/70	3/27/70				158.0	158.0
386	140		4486	4495	USGS	427495	19680927	(A-11- 1)17bda	414140111514701	428177	4616215	1	9/19/68	9/19/68	-9.0	-9.0			
387	21		4506	4496	USGS	427502	19681104	(A-11- 1) 4aca	414325111502401	430140	4619434	1	11/19/68	11/19/68	10.0	10.0			
388	230	210	4467	4451	USGS	26728		(A-11- 1) 5dbc	414305111513701	428437	4618836	1	4/20/03	4/20/03	16.0	16.0			
390	115		4830	4768	UDWR	427267	19690418	(B-10- 1)13bdb	413626111541401	424690	4606574	1	4/19/69	4/19/69	62.0	62.0			
391	67		4488	4486	USGS	427268	19690728	(A-12- 1)28baa	414528111504101	429769	4623242	1	7/19/69	7/19/69	2.0	2.0			
392	45		4504	4495	USGS	427269		(A-11- 1) 4dad	414307111500901	430473	4618861	1	7/19/69	7/19/69	9.0	9.0			
393	102		4837	4805	UDWR	8157	196911	(A-10- 1)21aac	413539111501401	430234	4605061	1	11/19/69	11/19/69	32.0	32.0			
394	334		4825	4530	UDWR	33156	19740600	(A-10- 1)10cdd	413645111492901	431295	4607094	1	6/19/74	6/19/74	295.0	295.0			
395	232		4535	4491	UDWR	426990	19700310	(B-11- 1)36cdc	413830111541801	424637	4610390	1	3/19/70	3/19/70	44.0	44.0			
396	170		4485	4486	UDWR	426991	19700702	(A-11- 1)19bda	414051111525701	426559	4614703	1	7/19/70	7/19/70	-1.0	-1.0			
398	140		4437	4417	UDWR	426994	19701121	(A-12- 1)32cca	414354111520901	427706	4620348	1	11/19/70	11/19/70	20.0	20.0			
400	140		4443	4443	UDWR	435051		(A-11- 1)18cbb	414129111532401	425926	4615900	1	11/17/11	11/17/11				0.0	0.0
402	219		4803	4618	UDWR	34026	19710609	(A-10- 1)16baa	413645111503401	429782	4607090	1	6/19/71	6/19/71	185.0	185.0			
403	130		4466	4466	UDWR	426852	19710611	(A-11- 1)18cdd	414110111525601	426579	4615317	1	6/11/71	6/11/71				0.0	0.0
404	207		4493	4493	UDWR	426853	19710920	(A-11- 1) 9dda	414210111500901	430456	4617130	1	9/20/71	9/20/71				0.0	0.0
406	120		4471	4471	UDWR	426876	19711009	(B-11- 1)24add	414046111532901	425805	4614585	1	10/9/71	10/9/71				0.0	0.0
408	141		4461	4461	UDWR	426882	19710804	(A-11- 1)18dab	414131111523501	427064	4615954	1	8/4/71	8/4/71				0.0	0.0
409	300	150	4703	4565	UDWR	6279		(A-10- 1) 2bcd	413804111483801	432493	4609518	1	4/19/83	4/19/83	138.0	138.0			
410	356	250	4762	4492	UDWR	33886	19720410	(A-11- 1)23bdc	414044111483101	432703	4614430	1	4/19/72	4/19/72	270.0	270.0			
412	275		4809	4807	UDWR	33723	19720425	(A-10- 1) 8cbc	413703111521301	427497	4607666	1	4/19/72	4/19/72	2.0	2.0			
413	216	176	4672	4494	UDWR	26642		(A-11- 1)23ccb	414025111484601	432351	4613869	1	1/20/03	1/20/03	178.0	178.0			
414	140		4544	4502	UDWR	31669	19780302	(A-11- 1)21daa	414038111500501	430513	4614273	1	3/19/78	3/19/78	42.0	42.0			
415	147	147	4818	4765	UDWR	8165		(A-10- 1)16add	413620111500001	430555	4606306	1	7/19/70	7/19/70	53.0	53.0			
417	343		4697	4492	UDWR	33433	19731214	(A-11- 1)34aab	413921111490101	431973	4611880	1	12/19/73	12/19/73	205.0	205.0			
419	160		4484	4480	UDWR	35650	19770826	(A-11- 1)17bdd	414135111515101	428086	4616053	1	8/19/77	8/19/77	4.0	4.0			

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
420	295		4684	4499	UDWR	33155	19740400	(A-11- 1)22aac	414055111490101	432005	4614780	1	4/19/74	4/19/74	185.0	185.0			
421	230		4604	4555	UDWR	33111	19740607	(A-11- 1)28dca	413930111502101	430124	4612197	1	6/19/74	6/19/74	49.0	49.0			
422	137		4563	4488	UDWR	33148	19740517	(A-11- 1)31dbc	413844111524701	426739	4610790	1	5/19/74	5/19/74	75.0	75.0			
423	289		4419	4419	UDWR	16706		(B-12- 1)13ccc	414625111543901	424303	4625053	1	3/3/00	3/3/00				0.0	0.0
424	140		4592	4512	UDWR	33202	19741017	(A-11- 1)15bda	414142111493101	431324	4616234	1	10/19/74	10/19/74	80.0	80.0			
425	300		4803	4782	UDWR	31174	19790627	(A-10- 1) 7ccd	413647111531001	426161	4607180	1	6/19/79	6/19/79	21.0	21.0			
426	303		4571	4481	UDWR	31604	19780208	(A-11- 1)27bab	414012111493501	431199	4613471	1	2/19/78	2/19/78	90.0	90.0			
427	113		4697	4657	UDWR	32874	19750708	(A-10- 1) 7bab	413734111530501	426294	4608638	1	7/19/75	7/19/75	40.0	40.0			
428	276		4729	4531	UDWR	32945	19751028	(A-10- 1) 2cac	413751111482401	432803	4609112	1	10/19/75	10/19/75	198.0	198.0			
429	130		4480	4479	UDWR	23170		(A-11- 1)19cbb	414035111532601	425877	4614239	1	1/20/01	1/20/01	1.5	1.5			
431	160		4571	4511	UDWR	34709	19760914	(B-10- 1) 1aca	413816111534701	425348	4609960	1	9/19/76	9/19/76	60.0	60.0			
432	183	183	4809	4691	UDWR	8163	19810420	(A-10- 1)16bdd	413619111503601	429725	4606295	1	4/19/81	4/19/81	118.0	118.0			
433	140	115	4493	4483	UDWR	23035		(A-11- 1)19dbb	414036111525001	426715	4614246	1	11/20/00	11/20/00	10.0	10.0			
435	151		4529	4494	UDWR	35814	19770513	(A-11- 1)10caa	414222111493501	431250	4617477	1	5/19/77	5/19/77	35.0	35.0			
436	256		4424	4424	UDWR	12723		(B-11- 1) 1bcc	414319111543801	424264	4619318	1	8/15/96	8/15/96				0.0	0.0
437	220		4533	4492	USGS	35816	19770815	(A-11- 1)10cac	414214111493501	431235	4617244	1	8/19/78	8/19/78	41.0	41.0			
438	160	133	4827	4808	UDWR	371		(A-10- 1)15ccb	413560111495301	430706	4605697	1	2/19/92	2/19/92	19.0	19.0			
439			4691	4531	UDWR	9642	19950728	(A-11- 1)34dda	413841111485701	432071	4610653	1	7/19/95	7/19/95	160.0	160.0			
440	139		4480	4480	UDWR	10572	19951013	(A-11- 1)17bdc	414137111515901	427896	4616121	1	10/13/95	10/13/95				0.0	0.0
441	375		4824	4819	UDWR	31674	19780221	(A-10- 1)18bdd	413620111525301	426550	4606348	1	2/19/78	2/19/78	5.0	5.0			
442	158		4448	4426	UDWR	35590	19780115	(A-11- 1) 5bcb	414325111521301	427605	4619457	1	1/19/78	1/19/78	22.0	22.0			
444	194		4803	4663	UDWR	8162	19781107	(A-10- 1)16abc	413632111502801	429904	4606703	1	11/19/78	11/19/78	140.0	140.0			
445	166		4492	4490	UDWR	35519	19790504	(A-11- 1)17dcb	414118111514101	428309	4615526	1	5/19/79	5/19/79	2.0	2.0			
447	320		4921	4772	UDWR	6126	20000929	(A-10- 1)15aac	413636111490101	431934	4606798	1	9/20/00	9/20/00	149.0	149.0			
448	282	267	4804	4788	UDWR	8152	19791002	(A-10- 1)16bbd	413632111505101	429374	4606690	1	10/19/79	10/19/79	16.0	16.0			
449	336		4424	4399	UDWR	433427		(B-11- 1) 1bcb	414325111543801	424259	4619498	1	5/20/10	5/20/10	25.0	25.0			
450	234		4633	4483	UDWR	35454	19810107	(A-11- 1)27aca	413957111491401	431687	4612987	1	1/19/80	1/19/80	150.0	150.0			
453	287	214	4773	4761	UDWR	2084	19920714	(A-10- 1)11aac	413728111475301	433501	4608422	1	7/19/92	7/19/92	12.5	12.5			
454	67		4464	4460	USGS	30211	19820527	(A-12- 1)16dbc	414641111503401	429951	4625465	1	5/19/82	5/19/82	4.0	4.0			
457	32		4620	4612	UDWR	35019		(A-11- 1)34abc	413912111491801	431573	4611624	1	12/20/05	12/20/05	8.0	8.0			
459	210		4424	4424	UDWR	11482	19831227	(B-11- 1)11dad	414218111544201	424151	4617415	1	3/1/96	3/1/96				0.0	0.0
462	181	128	4426	4381	UDWR	6675	19830901	(B-12- 1)25cab	414459111541901	424734	4622379	1	9/19/83	9/19/83	45.0	45.0			
463	130		4471	4513	UDWR	7229	19830806	(A-12- 1)21ccd	414536111510101	429321	4623468	1	8/19/83	8/19/83	-41.6	-41.6			
465	199	191	4604	4514	UDWR	7266	19830730	(A-12- 1)14cba	414642111484101	432577	4625481	1	7/19/83	7/19/83	90.0	90.0			
467	125		4792	4777	UDWR	27196		(B-10- 1)14adb	413625111545301	423770	4606547	1	8/19/86	8/19/86	15.0	15.0			
468	260		4647	4497	UDWR	26679	19870706	(A-11- 1)27bdd	413950111493001	431319	4612783	1	7/19/87	7/19/87	150.0	150.0			
469	261		4427	4427	UDWR	8706	19840422	(B-12- 1)36acb	414423111535801	425207	4621263	1	3/27/95	3/27/95				0.0	0.0
470	163		4424	4394	UDWR	9663	19840415	(B-11- 1)12cbd	414213111542801	424473	4617259	1	9/20/13	9/20/13	30.0	30.0			
471	100	100	4443	4466	UDWR	7249	19840706	(B-11- 1)13dda	414119111533001	425793	4615598	1	9/19/94	9/19/94	-23.1	-23.1			
472	95	95	4454	4414	UDWR	32830	19750313	(A-11- 1)18ccc	414113111532701	425885	4615368	1	9/19/84	9/19/84	40.0	40.0			
474	220	165	4818	4768	UDWR	9671	19840706	(A-10- 1)16dcc	413553111502801	429914	4605483	1	7/19/84	7/19/84	50.0	50.0			
475	50		4820	4790	UDWR	2094	19921114	(B-10- 1)13bcc	413625111543401	424231	4606522	1	11/19/92	11/19/92	30.0	30.0			
476	50		4823	4793	UDWR	2115	19921114	(B-10- 1)13bcc	413624111543101	424283	4606512	1	11/19/92	11/19/92	30.0	30.0			
477	62	14	4587	4573	UDWR	2742	19930430	(A-11- 1)27bcc	413953111495901	430652	4612883	1	4/19/93	4/19/93	14.0	14.0			
478	216		4458	4458	UDWR	33730		(B-11- 1)25bbb	414011111543101	424353	4613492	1	4/20/05	4/20/05				0.0	0.0
479	58	58	4524	4494	UDWR	23026	20001125	(A-11- 1)21bad	414057111504201	429668	4614871	1	11/20/00	11/20/00	30.0	30.0			
482	163	163	4473	4491	UDWR	17809	19980802	(A-11- 1)18daa	414131111522001	427415	4615936	1	7/19/98	7/19/98	-18.5	-18.5			
484	200		4834	4831	UDWR	24043	19871028	(A-10- 1)18bcd	413619111531101	426144	4606323	1	10/19/87	10/19/87	3.0	3.0			
485	159	150	4592	4485	UDWR	417	19920506	(A-11- 1)31ccd	413835111531101	426185	4610532	1	5/19/92	5/19/92	107.0	107.0			
486	79	59	4536	4482	UDWR	1581	19921028	(A-11- 1)20dda	414027111511001	429017	4613965	1	10/19/92	10/19/92	54.0	54.0			
487	211	174	4645	4490	UDWR	24093	19870615	(A-11- 1)27adb	414001111490301	431938	4613109	1	6/19/87	6/19/87	155.0	155.0			
491	179	169	4564	4490	UDWR	15521	19970405	(B-10- 1) 1aab	413829111533801	425561	4610344	1	4/19/97	4/19/97	74.0	74.0			
493	225		4684	4526	UDWR	2143	19910415	(B-10- 1) 1cdd	413738111541001	424790	4608797	1	4/19/91	4/19/91	158.0	158.0			
495	182		4512	4493	UDWR	24096	19871128	(A-11- 1)10cbc	414213111495301	430817	4617201	1	11/19/87	11/19/87	19.0	19.0			
496	69		4716	4716	UDWR	14420	19881125	(A-10- 1) 2bdc	413808111483001	432674	4609632	1	11/25/88	11/25/88				20.0	20.0

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
498	249	230	4801	4671	UDWR	2888	19930615	(A-10- 1)16bad	413636111504101	429626	4606831	1	6/19/93	6/19/93	130.0	130.0			
501	80	14	4636	4624	UDWR	9602	19950622	(A-11- 1)34acb	413906111492301	431455	4611421	1	6/19/95	6/19/95	12.0	12.0			
503	220		4424	4422	UDWR	10977	19951121	(B-11- 1) 1ccc	414253111543901	424233	4618496	1	11/19/95	11/19/95	2.0	2.0			
505	180	150	4804	4687	UDWR	6955	19940812	(A-10- 1)16cba	413615111505701	429235	4606165	1	8/19/94	8/19/94	117.0	117.0			
508	159		4634	4634	UDWR	12248	19960713	(B-10- 1) 1ddc	413739111534201	425449	4608807	1	7/13/96	7/13/96				0.0	0.0
509	230		4640	4624	UDWR	431983		(B-10- 1)12aad	413737111533101	425696	4608746	1	11/20/08	11/20/08	16.0	16.0			
510	300	255	4765	4556	UDWR	1583	19921113	(A-10- 1) 9cbd	413705111505301	429348	4607714	1	11/19/92	11/19/92	209.0	209.0			
511	159	159	4436	4439	USGS	1866	19920203	(B-11- 1) 1dad	414305111533001	425818	4618855	1	2/19/92	2/19/92	-2.3	-2.3			
512	164	145	4436	4461	UDWR	11767	19960510	(B-11- 1) 1dad	414308111533201	425786	4618948	1	5/19/96	5/19/96	-24.3	-24.3			
513	271	271	4694	4682	UDWR	31925	20041211	(A-10- 1) 7bcb	413718111532401	425815	4608150	1	4/19/92	4/19/92	12.0	12.0			
514	150	139	4554	4488	UDWR	416	19920421	(B-10- 1) 1aba	413824111535101	425263	4610190	1	4/19/92	4/19/92	66.0	66.0			
515	138		4478	4478	UDWR	16074	19970702	(A-11- 1)19aba	414105111524401	426845	4615145	1	7/2/97	7/2/97				0.0	0.0
516	120		4472	4472	UDWR	8248	19910513	(A-11- 1)17bab	414159111520201	427848	4616794	1	5/13/91	5/13/91				0.0	0.0
517	140		4458	4458	UDWR	785	19920803	(A-11- 1) 7ddd	414205111522001	427421	4616978	1	8/3/92	8/3/92				0.0	0.0
518	206	150	4717	4576	UDWR	782	19920720	(A-10- 1) 2cbb	413802111484101	432414	4609450	1	7/19/92	7/19/92	141.0	141.0			
519	269		4668	4480	UDWR	1585	19920309	(A-11- 1)34aba	413916111491001	431772	4611746	1	3/19/92	3/19/92	188.0	188.0			
520	89	69	4494	4489	UDWR	435	19920610	(A-11- 1)16bbc	414148111510701	429099	4616453	1	6/19/92	6/19/92	5.0	5.0			
521	200		4484	4476	UDWR	9639	19950706	(B-11- 1)25aca	413959111534801	425353	4613132	1	7/19/95	7/19/95	8.0	8.0			
522	140		4480	4480	UDWR	11614	19960524	(A-11- 1)19aba	414105111523901	426964	4615149	1	5/24/96	5/24/96				0.0	0.0
523	146		4484	4484	UDWR	21702	20000316	(A-11- 1)19abd	414055111524201	426889	4614852	1	3/16/00	3/16/00				0.0	0.0
524	300	172	4618	4601	UDWR	19245	19990518	(B-10- 1) 1ddb	413747111534201	425460	4609040	1	5/19/99	5/19/99	17.0	17.0			
525	140	100	4821	4789	UDWR	436	19920608	(A-10- 1)18bcc	413620111532301	425853	4606356	1	4/19/92	4/19/92	32.0	32.0			
527	140		4646	4552	UDWR	24102	20010830	(A-11- 1)34dba	413855111490901	431783	4611075	1	8/20/01	8/20/01	94.0	94.0			
529	455	440	4841	4486	UDWR	2009	19930323	(A-12- 1)13cab	414648111472001	434446	4625647	1	3/19/93	3/19/93	355.0	355.0			
533	176		4433	4433	USGS	9570	19950627	(A-11- 1) 6cba	414316111531601	426152	4619189	1	6/23/95	6/23/95				0.0	0.0
534	110		4434	4434	UDWR	6705	19940707	(B-11- 1)13aad	414152111533301	425732	4616614	1	7/7/94	7/7/94				0.0	0.0
536	141		4442	4442	UDWR	7925	19941212	(A-11- 1) 7acc	414231111525201	426686	4617814	1	12/12/94	12/12/94				0.0	0.0
537	134	107	4463	4462	UDWR	7842	19941201	(A-11- 1)17bcb	414144111521601	427506	4616346	1	12/19/94	12/19/94	1.0	1.0			
539	273	253	4891	4723	UDWR	6639	19940728	(A-10- 1) 8ccb	413653111521201	427518	4607380	1	7/19/94	7/19/94	168.0	168.0			
540	145	145	4469	4474	UDWR	7126	19940829	(B-11- 1)24cdc	414019111542001	424626	4613749	1	8/19/94	8/19/94	-4.6	-4.6			
543	180	173	4580	4495	UDWR	7322	19940912	(A-12- 1)15dda	414629111485801	432172	4625074	1	9/19/94	9/19/94	85.0	85.0			
548	154		4432	4432	USGS	15347	19970328	(B-11- 1)14aaa	414156111544101	424177	4616752	1	3/28/97	3/28/97				0.0	0.0
549	207	194	4433	4449	UDWR	26165	20021029	(B-11- 1)14aaa	414153111544201	424145	4616658	1	10/20/02	10/20/02	-16.2	-16.2			
551	138		4468	4468	UDWR	23285	20010309	(A-11- 1)18dcb	414114111524801	426756	4615430	1	3/9/01	3/9/01				0.0	0.0
552	78	62	4493	4485	UDWR	6782		(B-11- 1)25aad	414003111532901	425783	4613252	1	7/19/94	7/19/94	8.0	8.0			
553	161		4436	4401	UDWR	30057	19830801	(A-11- 1) 6cca	414259111532001	426057	4618675	1	8/19/83	8/19/83	35.0	35.0			
554	166		4842	4827	UDWR	9601	19950706	(A-10- 1)21acd	413529111501601	430186	4604747	1	7/19/95	7/19/95	15.0	15.0			
555	115		4471	4494	UDWR	9684	19950713	(B-11- 1)24daa	414041111533401	425685	4614407	1	7/19/95	7/19/95	-23.1	-23.1			
556	266	266	4683	4639	UDWR	9820	19960305	(B-10- 1)12bbb	413735111543001	424333	4608689	1	3/19/96	3/19/96	44.0	44.0			
557	113	85	4494	4490	UDWR	10706	19951026	(A-11- 1)19dcb	414027111525201	426646	4613965	1	10/19/95	10/19/95	4.0	4.0			
558	188		4442	4442	UDWR	10023	19950816	(B-11- 1)23adb	414051111545401	423853	4614756	1	8/16/95	8/16/95				0.0	0.0
560	400	295	4591	4589	UDWR	25679	20020814	(B-10- 1) 1cca	413748111542201	424534	4609098	1	8/20/02	8/20/02	2.0	2.0			
561	258	248	4424	4414	UDWR	28908		(B-11- 1) 2dad	414306111544201	424171	4618908	1	5/19/96	5/19/96	10.0	10.0			
562	156		4435	4442	UDWR	11942	19960619	(B-11- 1) 1daa	414315111533601	425703	4619173	1	6/19/96	6/19/96	-6.9	-6.9			
563	315	315	4802	4647	UDWR	20799	19991015	(A-10- 1) 8cca	413655111520001	427788	4607421	1	10/19/99	10/19/99	155.0	155.0			
564	340	260	4838	4659	UDWR	19412	19990521	(A-10- 1) 8cdb	413652111515701	427861	4607336	1	5/19/99	5/19/99	179.0	179.0			
566	213		4818	4795	UDWR	12176	19960703	(A-10- 1)16dad	413609111500601	430426	4605975	1	7/19/96	7/19/96	23.0	23.0			
567	240	200	4818	4803	UDWR	19686	19990716	(A-10- 1) 7ddc	413648111523101	427065	4607203	1	7/19/99	7/19/99	15.0	15.0			
569	386	370	4896	4722	UDWR	17574	19980612	(A-10- 1) 7dda	413654111521901	427343	4607394	1	6/19/98	6/19/98	174.0	174.0			
570	78		4480	4480	UDWR	13883	19961008	(A-11- 1)18dda	414114111522301	427341	4615424	1	10/8/96	10/8/96				0.0	0.0
571	120		4459	4457	USGS	13748	19960920	(A-11- 1)18dbc	414124111525201	426682	4615738	1	9/19/96	9/19/96	2.0	2.0			
573	283	263	4671	4671	UDWR	12445	19960719	(B-10- 1)12ada	413723111532901	425736	4608309	1	7/19/96	7/19/96	0.3	0.3			
574	220	150	4798	4675	UDWR	19031	19990524	(A-10- 1)17abc	413643111512701	428543	4607060	1	5/19/99	5/19/99	123.0	123.0			
575	285		4876	4626	UDWR	13006	19960906	(A-10- 1)15bad	413633111492701	431329	4606724	1	9/19/96	9/19/96	250.0	250.0			
576	207	198	4809	4781	UDWR	14502	19970118	(A-10- 1)16ada	413629111500301	430502	4606611	1	1/19/97	1/19/97	28.0	28.0			

Map ID	Well Depth (ft)	Screen Depth (ft)	Elev. (ft)	Mean Water Level Elev.(ft)	Agency	Well ID Number	Date Drilled	PLSS	USGS ID Number	UTM X (m)	UTM Y (m)	n	Depth to Water Statistics (ft)						
													First Measured	Last Measured	Mean	Median	Standard Dev.	Min.	Max.
577	135		4809	4779	UDWR	15043	19970409	(A-10- 1)16adb	413626111500801	430372	4606520	1	4/19/97	4/19/97	30.0	30.0			
578	155	155	4814	4784	UDWR	15419	19970321	(A-10- 1)16add	413623111500201	430512	4606423	1	3/19/97	3/19/97	30.0	30.0			
579	180	143	4576	4484	UDWR	16241	19970904	(B-10- 1) 1ada	413811111533601	425605	4609794	1	9/19/97	9/19/97	92.0	92.0			
581	222	222	4436	4450	UDWR	14887	19970515	(B-11- 1) 1daa	414316111533301	425773	4619203	1	5/19/97	5/19/97	-13.9	-13.9			
582	139	59	4839	4803	UDWR	25528	20020717	(B-10- 1)13dad	413610111533001	425708	4606068	1	7/20/02	7/20/02	36.0	36.0			
583	525		4834	4834	UDWR	23396	20010416	(B-10- 1)13daa	413612111533501	425591	4606120	1	4/16/01	4/16/01				0.0	0.0
584	460	411	4856	4815	UDWR	25639	20020816	(B-10- 1)13dba	413616111535301	425159	4606238	1	7/20/02	7/20/02	41.0	41.0			
585	180	180	4571	4491	UDWR	21105	19991208	(B-10- 1) 1aac	413822111534201	425456	4610128	1	12/19/99	12/19/99	80.0	80.0			
586	270	180	4681	4663	UDWR	16026	19970815	(B-10- 1)12bbb	413732111543401	424231	4608600	1	8/19/97	8/19/97	18.0	18.0			
587	180		4536	4487	UDWR	15623	19970610	(B-11- 1)36dcc	413832111535801	425084	4610431	1	6/19/97	6/19/97	49.0	49.0			
588	395		4821	4807	UDWR	31320	19790803	(B-10- 1)13bdc	413622111541401	424688	4606452	1	8/19/79	8/19/79	14.0	14.0			
589	152		4474	4474	UDWR	18293	19990524	(A-11- 1) 5ddd	414257111511701	428903	4618572	1	5/24/99	5/24/99				0.0	0.0
590	200		4578	4488	UDWR	17832	19980731	(B-10- 1) 1aad	413819111533101	425716	4610040	1	7/19/98	7/19/98	90.0	90.0			
591	210	179	4655	4494	UDWR	15957	19970619	(A-11- 1)27acd	413949111490901	431812	4612744	1	6/19/97	6/19/97	161.0	161.0			
593	323		4803	4510	UDWR	33203	19740724	(A-10- 1)10bcc	413713111495101	430792	4607941	1	7/19/74	7/19/74	293.0	293.0			
595	140		4430	4430	UDWR	17398	19980515	(B-11- 1)14aaa	414157111544401	424092	4616789	1	5/15/98	5/15/98				0.0	0.0
596	280		4653	4477	UDWR	25529	20030619	(A-11- 1)27acd	413949111491401	431689	4612758	1	6/20/03	6/20/03	176.0	176.0			
597	341	327	4684	4634	UDWR	18537	19990127	(B-10- 1) 1ccd	413738111542701	424397	4608779	1	1/19/99	1/19/99	50.0	50.0			
598	120		4485	4480	UDWR	18592	19990518	(A-11- 1)19acd	414042111524201	426883	4614443	1	5/19/99	5/19/99	5.0	5.0			
599	147		4499	4499	UDWR	18450	19981203	(A-11- 1)17add	414137111511801	428862	4616100	1	12/3/98	12/3/98				0.0	0.0
600	180		4424	4424	UDWR	17918	19980817	(B-11- 1)14aba	414154111545801	423763	4616698	1	8/17/98	8/17/98				0.0	0.0
602	140		4529	4484	UDWR	18328				428318	4612735	1	11/19/98	11/19/98	45.0	45.0			
604	240	240	4542	4482	UDWR	23564	20010504	(B-10- 1) 1aba	413829111535101	425213	4610368	1	5/20/01	5/20/01	60.0	60.0			
606	450		4812	4512	USGS	5023	19940209	(A-10- 1)10cdb	413654111494001	431026	4607370	1	2/19/94	2/19/94	300.0	300.0			
607	259		4687	4497	UDWR	5126	19931220	(A-11- 1)27ddb	413930111485901	432031	4612157	1	12/19/93	12/19/93	190.0	190.0			
611	138	122	4466	4493	UDWR	23094	20001206	(A-11- 1)18cdd	414108111530101	426455	4615232	1	12/20/00	12/20/00	-26.6	-26.6			
612	199	148	4445	4471	UDWR	20778	19850326	(A-11- 1) 5bcc	414322111522101	427461	4619384	1	11/20/00	11/20/00	-25.4	-25.4			
613	219	200	4426	4456	UDWR	24357	20011031	(B-11- 1)11ddd	414205111544101	424166	4617013	1	10/20/01	10/20/01	-30.0	-30.0			
616	400		4881	4801	UDWR	34165	20050527	(A-10- 1)22bbb	413549111495801	430599	4605375	1	5/20/05	5/20/05	80.0	80.0			
617	415		4790	4502	UDWR	35583	20070102	(A-12- 1)26cdc	414439111482701	432868	4621674	1	7/20/07	7/20/07	288.0	288.0			
619	147		4465	4455	UDWR	34412	20051202	(B-11- 1)24add	414043111533701	425621	4614483	1	12/20/05	12/20/05	10.0	10.0			
620	97		4601	4587	UDWR	431876	20081006	(B-10- 1) 1cda	413748111541001	424798	4609091	1	10/20/08	10/20/08	14.0	14.0			
621	200		4798	4743	UDWR	435676	20120310	(B-10- 1)12dcd	413647111535001	425250	4607192	1	3/20/12	3/20/12	54.5	54.5			
622	102		4629	4583	UDWR	433796	20100430	(A-10- 1) 6ccc	413743111532301	425889	4608929	1	5/20/10	5/20/10	46.0	46.0			
623	120		4490	4486	UDWR	429150	20070428	(A-11- 1)30bbb	414008111532501	425886	4613399	1	5/20/07	5/20/07	4.0	4.0			
624	320		4820	4565	UDWR	430692	20071018	(A-10- 1)15bab	413643111493701	431110	4607030	1	10/20/07	10/20/07	255.0	255.0			
625	240		4769	4733	UDWR	431572	20090210	(B-10- 1)12dcb	413651111540101	425003	4607333	1	3/20/09	3/20/09	36.0	36.0			
626	157		4477	4489	UDWR	430624	20071203	(A-11- 1)19bcc	414042111532501	425907	4614437	1	9/20/08	9/20/08	-12.0	-12.0			
627	268		4767	4717	UDWR	435049	20110818	(B-10- 1)12cdd	413650111540401	424916	4607314	1	8/20/11	8/20/11	50.0	50.0			
628	180		4746	4701	UDWR	431615	20080721	(B-10- 1)12cda	413652111541001	424791	4607375	1	7/20/08	7/20/08	45.0	45.0			
629	265		4828	4798	UDWR	432987	20090807	(A-10- 1)21bdd	413529111503401	429757	4604757	1	8/20/09	8/20/09	30.0	30.0			
630	400		4795	4489	UDWR	431528	20080825	(A-11- 1)14cbb	414131111485101	432245	4615896	1	9/20/08	9/20/08	306.0	306.0			
631	220		4724	4561	UDWR	432347	20090204	(A-10- 1) 2cdb	413749111482801	432715	4609033	1	2/20/09	2/20/09	163.0	163.0			
632	159		4665	4547	UDWR	433380				430379	4610751	1	12/20/09	12/20/09	118.0	118.0			
633	157		4806	4786	USGS	433929	20100707	(B-10- 1)12ddd	413646111533001	425716	4607158	1	7/20/10	7/20/10	20.0	20.0			
634	301		4855	4695	UDWR	435551	20120111	(A-10- 1) 8cca	413653111520801	427619	4607371	1	1/20/12	1/20/12	160.0	160.0			
635	189	189	4592	4587	UDWR	22563	20000908	(B-10- 1) 2ddc	413739111544601	423970	4608809	1	9/20/00	9/20/00	5.0	5.0			
636			4821	4791	UDWR	12570		(A-10- 1)18cba	413617111531001	426166	4606264	1	7/19/96	7/19/96	30.0	30.0			
643			4890	4809	UDWR	22492	20000731	(A-10- 1)21add	413529111500601	430401	4604752	1	7/20/00	7/20/00	81.0	81.0			

Councilmember Reports
July 28, 2016

Sign into Millville – Mayor Johnson/Councilmember Duffin
Fees in Lieu of Water Rights – Gary Larsen/Bob Fotheringham
Review of Group Residential Facilities – Coordinator Harry Meadows
Volunteerism Always Pays (VAP) Projects provided by Wal-Mart – Mayor Johnson
City Artifacts – Councilmember Callahan
Old Mill Day Committee – Councilmember Cummings
CERT Training Program – Councilmember Cummings
Water Rights Recommendation from Planning Commission – Mayor Johnson
High School – Councilmember Zollinger
Schedule for Newsletter Article – August, Councilmember Cummings; September, Councilmember Duffin; October, Councilmember Williams; November, Councilmember Zollinger; December, Mayor Johnson; January, Councilmember Callahan. (To be turned in by the 6th of each month)