



P.O. Box 206, Sheffield, IL 61361
P 815.454.2342 F 815.454.2253

February 11, 2022

US Environmental Protection Agency Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Attention: Ms. Michelle Kaysen, Project Manager
Technical Enforcement Section #1
RCRA Enforcement Branch

Region 5 MAIL CODE LR-16J

Re: US Ecology Illinois Inc. LSTP 2021 Monitoring Report
ILD 045 063 450

Dear Ms. Kaysen:

As required by the 2020 Long-term Stewardship Program we are submitting our annual 2021 monitoring report for the Sheffield facility.

If you should have any questions regarding this annual report, please contact me at (815) 454-2342

Sincerely,

A handwritten signature in blue ink that reads "Doug Long".

Doug Long
Facility Manager

CC: Ms. Amy Butler, Illinois Environmental Protection Agency
Mr. Phil Tannian, US Ecology, Livonia
Mr. Andrew Marshall, US Ecology, Inc.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personnel knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Doug Long
Name: Doug Long
Title: Facility Manager
Date: 2/11/2022



Long-term Stewardship Program 2021 Annual Monitoring Report

US Ecology Illinois, Inc.

IEPA No. 011 905000 3
USEPA No. ILD 04-506-3450

Submitted to:

**US Environmental Protection Agency
Region 5
77 W. Jackson Blvd.
Chicago, IL 60604**

Submitted by:

**US Ecology Illinois Inc.
13279-350 E. Street
Sheffield, Illinois 61361**

February 11, 2022

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

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1 Summary

This Long-term Stewardship Program (LTSP) annual report provides a summary of the groundwater monitoring events and other site stewardship activities that took place in 2021 at US Ecology's closed Sheffield facility. This LTSP report represents a transition from work previously conducted under the 1985 Administrative Order by Consent (AOC) with the US Environmental Protection Agency (USEPA) and the Illinois Environmental Protection Agency (IEPA) post-closure permit, to the 2020 USEPA AOC for long-term site stewardship.

The 2021 analytical results indicated no migration of contaminants of concern (COCs) to boundary wells or Trout Lake. The results of groundwater samples collected within the known plume and downgradient areas indicate continued declines in concentrations over time, particularly in the last 5 to 10 years. Exceedances of Region 4 freshwater screening levels were limited to tetrachloroethene (PCE) in plume well G168; benzene, PCE and trichloroethene (TCE) in plume well G547 (fall only); cis-1,2-dichloroethene at plume well G564 (fall only); benzene at guard well G591; and PCE in guard well G600 (spring only).

2 Site Background

The US Ecology Sheffield site is a 46-acre permitted hazardous waste facility that operated from 1968 to 1983 (Figure 1, Vicinity Map). The facility includes two hazardous waste landfills referred to as the Old Chem Site and New Chem Site (Figure 2, Site Layout). A closed 20-acre, low-level radioactive waste (LLRW) facility owned and monitored by the state of Illinois is adjacent to the facility and lies within the property owned by US Ecology but is not considered as a part of this LTSP. During operations, the US Ecology facility accepted industrial, laboratory and agricultural hazardous wastes. Approximately 165,000 cubic yards (cy) of waste were reportedly disposed at the two landfills (93 percent at the New Chem Site). The Old Chem Site consists of six disposal trenches covering about 6 acres. The New Chem Site consists of 19 clay-lined burial cells covering approximately 40 acres.

2.1 Corrective Action

In 1985, the facility was subject to an AOC administered by the USEPA under the Resource Conservation and Recovery Act (RCRA). The AOC required (1) investigation of potential site releases that could adversely affect human or environmental health through exposure to hazardous contaminants (primarily volatile organic compounds [VOCs]); (2) evaluation of alternatives to address exposure pathways; and (3) implementation of corrective actions that would protect people and the environment.

Subsequent corrective actions included containment of remaining on-site waste, and groundwater extraction and treatment to address a contaminated groundwater plume in the shallow aquifer beneath the facility. To contain the waste, portions of the landfill were isolated by constructing subsurface barrier walls to divert groundwater away from the cells, followed by capping the landfill surface in 1994. After the initial source control

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actions, additional groundwater remediation systems were installed in several phases including groundwater extraction and treatment, and in-situ treatment by an air-sparging/soil vapor-extraction (AS/SVE) system. Various modifications were made to the remediation systems over the years to optimize performance. In 2006, an injection system was added around some of the AS/SVE wells to further degrade VOC compounds present in groundwater. In 2009, an AS/SVE system was installed to address ongoing regulatory exceedances in seeps along the north side of the landfill.

US Ecology applied for a post-closure permit with IEPA on October 24, 2008. IEPA and USEPA agreed that all future post-closure activities would be carried out under the 1985 USEPA AOC (January 21, 2010 correspondence from USEPA); however, IEPA issued a post-closure permit to US Ecology on March 18, 2010. The IEPA permit required preparation of a post-closure plan for the site and ongoing environmental monitoring for at least 30 years from the September 30, 1996 closure certification date. The IEPA permit also required the facility to follow the post-closure plan associated with the September 30, 1985 AOC between USEPA and US Ecology.

The post-closure groundwater and surface water monitoring program was approved by the USEPA on July 1, 2009, following inclusion of additional groundwater monitoring wells identified in USEPA's response-to-comments (RTC) document for the facility dated October 1990 (Figure 3 shows the groundwater monitoring wells sampled under the post-closure plan). This program has been conducted from 2009 to 2020 and forms the basis of the post-closure plan also required under the IEPA permit.

More than 25 years of groundwater monitoring data have been collected since the initial remedial systems were installed, with VOCs comprising the primary COCs. VOC concentrations have declined over time, demonstrating that natural attenuation is occurring, and leading to decommissioning of the on-site wastewater treatment plant in 2013. Other treatment systems were decommissioned as corrective action goals were achieved.

Investigations of site-specific geological conditions have shown the shallow, contaminated aquifer is sufficiently isolated from the deeper water-bearing zone, which provides regional drinking water. Site hydrogeology is well known with most of the shallow groundwater discharging to a local surface water feature (Trout Lake) formed by historical coal mining activity (see Section 3.2 below). Surface water monitoring results have shown the contaminated groundwater plume is not impacting Trout Lake, which serves as the point of compliance (POC) for the LTSP.

In 2019 and 2020, a conceptual site model (CSM) and LTSP were prepared at USEPA's request for the Sheffield facility to support USEPA decisions regarding long-term site management (GeoEngineers 2019; GeoEngineers 2020). Based on information presented in the CSM and LTSP, an AOC was filed by the USEPA that will govern the long-term care of the facility.

2.2 Long-term Stewardship Program

The Long-term Stewardship Plan (GeoEngineers 2020) incorporates environmental monitoring, inspection of engineering controls and certifying institutional controls to ensure continued performance and site integrity. The results of these activities are the basis for this report. Environmental monitoring is conducted to demonstrate the effectiveness of existing source controls and support site management decisions regarding performance. Inspections, maintenance and minor repairs are performed to maintain site integrity. Deed restrictions have been filed with the county to ensure the continued land use associated with the landfill.

3 Site Geology and Hydrogeology

3.1 Geology

The facility is located on the northwestern margin of the Till Plains Section of the Central Lowlands physiographic province in Illinois. The Till Plains Section is composed of multiple Pleistocene epoch glacial ice sheet advances and retreats that scoured underlying bedrock and deposited till as terminal and ground moraines with subsequent outwash plains. Surficial geologic maps indicate Pleistocene aeolian silts and fine sand overlay clay, silt and pebble till derived from ground moraines; outwash sands cap the local area. The loess and glacial deposits lie unconformably over shale and sandstone with thin coal seams and limestone beds.

Though that portion of the site occupied by the landfill area is generally undisturbed, much of the adjacent area had been surface mined for coal and backfilled with mine spoils in the 1940s and early 1950s. The approximately 23-acre Trout Lake originated as a surface mining pit. The mine spoils consist of intermixed glacial deposits and bedrock.

Site boring logs indicate loess, glacial till, glacial outwash sand and gravel, and lacustrine material underly the site. Fill material, derived from surface mining, as well as landfill capping material was also present.

3.2 Site Hydrogeology

Prior to area surface mining in the late 1920s and early 1930s, surface water at the site drained to the northeast through an unnamed tributary to Lawson Creek, which currently drains to the north. Upon conclusion of surface mining activity, the tributary drainage was captured by the pit that became Trout Lake. Additionally, ponds and lakes originating as surface mine pits currently receive groundwater discharge in the vicinity of the facility. Trout Lake is impounded by an earthen dam to the east that maintains the pool elevation at approximately 698 to 700 feet above mean sea level (MSL). The dam does not have a control gate and seasonal runoff can overtop the dam, with excess water discharging into a small ephemeral drainage and ultimately, either infiltrating to groundwater or into Lawson Creek.

Groundwater lies within three hydrogeologic systems in the area: (1) a deep principal regional aquifer, (2) a Pennsylvanian bedrock aquifer; and (3) an uppermost unconfined

aquifer within unconsolidated glacial deposits. Groundwater flow beneath the facility is impacted by unconsolidated material heterogeneity, complex bedrock vertical joints and horizontal bedding planes, as well as irregular surface topography, and interference from engineered barriers and nearby surface water bodies.

Groundwater flow in the shallow unconfined aquifer is generally to the north-northeast and then east toward Trout Lake. However, subsurface barrier walls designed to isolate waste disposal trenches from groundwater flow-through were installed in the 1990s around the Old Chem Site and portions of the New Chem Site. The barrier walls were installed from roughly ground surface to bedrock. The barrier walls disrupt the north-northeasterly groundwater flow; diverting it to the east and northwest, creating a broad flattening of the groundwater gradient to the north of the landfill facility. The barrier walls do not affect local groundwater flow in the deep aquifer. Maps showing groundwater contours in the shallow and deep aquifers are presented in Figures 4 through 7.

4 Groundwater and Surface Water Chemical Monitoring and Evaluation Approach

Groundwater and surface water sampling protocols are outlined in the 2020 LTSP. The sampling locations and well type designations are described below.

Twelve wells (identified as boundary, guard and plume wells) are sampled for the LTSP monitoring program along with two Trout Lake shoreline wells and two surface water sampling locations (Figure 8. Long-term Stewardship Plan Monitoring Locations). The groundwater and surface water sampling locations are discussed below:

- Boundary wells (G160 and G162) are situated downgradient of the Old Chem and New Chem landfill units to assess whether site-generated contamination is migrating towards the facility boundaries.
- Guard wells (G591, G592 and G600) are located to the east between the disposal cells and Trout Lake and are intended to provide an early warning of contaminant migration towards and possible impacts to the lake.
- Plume wells (G165, G166, G168, G547, G564, G575 and G594) are located within the historical path of the VOC plume. Analytical data are used to evaluate plume stability and concentration trends.
- The two shoreline wells (G211 and G570) are used to monitor groundwater-surface water (GSI) interactions downgradient of the guard wells.
- Two surface water sampling locations (S501 and S502) are near the shoreline in areas where groundwater from the site is likely to discharge to the lake (GeoEngineers 2020).

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4.1 Monitoring Frequency

The wells are sampled in the spring and fall of each year. Fall 2020 represented the first sampling event under the LTSP. Monitoring frequency in the LTSP array of wells may be reduced if contaminant concentrations continue to decline or remain stable.

Six additional wells from historical investigations will be monitored as part of a 5-year review cycle to assess the long-term effectiveness of the original corrective actions. These wells have historically had few, if any, COC criteria exceedances. The well locations were selected to be close to various source control structures and will be used to confirm the effectiveness of these source controls provided by the original corrective actions. The first 5-year cycle sampling event will be in 2025.

4.2 Data Evaluation

Analytical results for surface water and groundwater are compared to USEPA Region 4 surface water screening levels in this annual report (previous years were compared to screening levels required under the post-closure permit). Region 4 screening levels are provided in inset Table I below.

Table I: Surface Water Screening Levels

Contaminant of Concern	Region 4 Surface Water Screening Values (µg/L)
Benzene	160
Chloroform	140
1,1-Dichloroethane	410
1,1-Dichloroethene	130
1,2-dichloroethane (EDC)	2,000
cis-1,2-Dichloroethene	620
trans-1,2-Dichloroethene	558
1,2-Dichloropropane	520
Methylene chloride (aka dichloromethane)	1,500
Tetrachloroethene (PCE)	53
Trichloroethene (TCE)	220
Vinyl chloride	930

Note:

µg/L = micrograms per liter

The surface water sampling locations in Trout Lake are the point of compliance for the site, such that an exceedance of a screening level would trigger additional investigation and potentially a corrective action, developed in coordination with the USEPA. Comparison of groundwater concentrations to screening levels provides an assessment of trends and the efficacy of source controls at the site. Additional investigation might occur should trends in a well change significantly (i.e., indicate increasing concentrations where previously declining or stable). Table 1 (attached) presents the potential response actions, based on chemical results under the LTSP that could be implemented during the program.

5 Groundwater and Surface Water Monitoring Results

Results are presented and discussed by well type (guard, plume, etc.) or surface water sampling location in this section. Laboratory reports associated with the spring and fall 2021 monitoring are provided in Appendix A. Conventional water quality parameters were measured at all wells sampled during a monitoring event; COCs were analyzed in all network wells sampled in the spring and fall. COC concentrations are compared to Region 4 screening levels for surface water per the LTSP and any exceedances are identified. Trends in chemical concentrations are discussed for each well type and graphically displayed trends are provided in Appendix B. Groundwater flow and an assessment of gains or losses in the lake are also presented in the attached Figures 4 through 7 and 9, respectively.

5.1 Ambient Condition Monitoring results

The Ambient Condition Wells (G145, G186 and G434) provide data regarding inorganic concentrations in upgradient groundwater and establish guidelines for Illinois EPA's "Class IV-Other Groundwater" standards for other site wells.

The baseline inorganic constituent concentrations established in the groundwater monitoring plan for the Ambient Condition Monitoring Wells are presented in inset Table II below. The unconsolidated upper aquifer ambient condition data represents the maximum concentrations measured in well G434 since the Post-closure monitoring began. The deep bedrock aquifer data represents the maximum concentrations measured in either G145 or G186 since the Post-closure monitoring began.

Table II: Baseline Concentrations of Inorganic Compounds Measured in Ambient Condition Wells

Constituent	Units	Shallow aquifer	Deep aquifer
Total Chlorides	mg/l ¹	1.7	7.8
Total sulfate	mg/l	23	1,600
Total Dissolved Solids	mg/l	360	3,000
Total Iron	ug/l ²	1,100	3,700
Total Manganese	ug/l	150	3,900

Notes:

1. mg/l – milligrams per liter
2. ug/l – micrograms per liter

5.2 Boundary Well Monitoring Results

Two boundary wells (G-160 and G-162) were monitored in spring and fall 2021. Comparison with baseline conventional water quality concentrations show elevated total iron, total manganese and TDS values. Total iron, total manganese and TDS concentrations are above their baselines up to a magnitude of one. Conventional water quality parameter concentrations in boundary wells are summarized in Table 2 (attached).

COCs were not detected in boundary well groundwater samples. Analytical data for boundary wells are summarized in Table 3 (attached).

Trends were not evaluated in boundary wells because COCs have not been detected historically. No additional evaluation is currently required.

5.3 Plume Well Monitoring Results

Seven plume wells were sampled in the 2021 sampling events. Plume monitoring wells G165, G166 and G168 are located north of the New Chem Site and upgradient of the Old Chem Site. Four plume monitoring wells are located east of the Old Chem Site and the Low-Level Radioactive Waste (LLRW) disposal site (G547, G564, G575 and G594).

Elevated total iron up to a magnitude of two was reported in the four eastern plume wells during the spring and fall monitoring events. The three northern plume well total iron concentrations were within baseline values. Total manganese concentrations were slightly above baseline values in G564; and were within baseline values in the remaining plume wells. TDS was greater than the baseline by up to a magnitude of one in six of the seven plume wells in both fall and spring 2021. TDS in G547 was below baseline concentrations during both sampling events. The attached Table 2 summarizes conventional parameter concentrations in the plume wells.

COCs were not detected in groundwater from wells G165 and G166 in either the spring or fall. Well G168 had several detections of COCs in both the spring and fall; tetrachloroethene exceeded its screening level in both events by an approximate factor of 2 (concentrations were similar across both monitoring events).

COCs were detected in the four wells east of the Old Chem Site for both sampling events. Well G547 was reported with benzene, PCE and TCE exceedances in the fall sampling event. The detected COC values in the fall event were an increase of 2.5 to 5 times the spring event. Well G564 was reported with a concentration of cis-1,2-DCE in the fall sampling event exceeding the screening level. The reported value was an increase from the spring concentrations by a factor of 5. Wells G575 and G594 were reported with multiple analyte concentrations but the detected values were below USEPA Region 4 surface water screening levels (see attached Table 3 for a summary of analytical results for plume wells).

5.3.1 Plume Well Trend Analysis

COC results were initially graphed using Excel™ for those wells with a recent Region 4 screening level exceedance. Where the initial graphs suggested a trend, chemical concentrations were imported into USEPA's ProUCL (version 5.1) to determine the significance of that trend. The Trends Analysis module in ProUCL was used for this analysis. When there was insufficient evidence to determine the presence or significance of a trend (as determined by ProUCL), shorter time periods were evaluated (e.g., last 5 or 10 years).

In almost all cases, COCs continue to display significant declines in concentrations since 1999.

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A summary of the trends analysis is provided in Table 4 (attached). Line graphs for benzene in G547, PCE in G168 and G547, TCE in G547 and cis-1,2-DCE in G564 are presented in Appendix B.1. Trend analysis graphs are included in Appendix B.2.

5.4 Guard Well Monitoring Results

Three guard wells (G591, G592 and G600) east of the Old Chem Site and within the groundwater plume monitor conditions between the Site and Trout Lake were sampled in the spring and fall events.

Elevated total iron up to a magnitude of two was reported in G591 and G600 during the spring and fall monitoring events. The G592 well total iron concentrations were below baseline values. Total manganese concentrations were above baseline values in G591 and G600; and were below baseline values in G592. TDS was greater than the baseline in the three guard wells in both fall and spring 2021. Conventional water quality parameter results for guard wells are provided in attached Table 2.

COCs were detected in all three guard wells. Detected concentrations were reported below the USEPA Region 4 screening levels except benzene at G591 in spring and fall, and PCE in G600, which exceeded its criterion by a factor of about 3 in the spring but dropped below the screening level in the fall. Analytical results for guard wells are summarized in Table 3.

5.4.1 Guard Well Trend Analysis

In almost all cases, COCs with one or more historical exceedances of screening levels, have displayed significant declines in concentrations since 1999. Exceptions included benzene and cis-1,2-DCE at G591, PCE at G592 and TCE at G600 where the initial evaluation suggested that there was insufficient evidence that a trend existed. However, when shorter (5 years) timeframes were evaluated, declining trends became significant for TCE and PCE. The presence and significance of trends for benzene at G591 could not be resolved regardless of the timeframe evaluated.

In almost all cases, COCs continue to display significant declines in concentrations since 1999. Review of the G591 line graph for benzene shows a similar increase in March 2018/2019 followed by a concentration decrease below the screening level, thus there is variability however the recent increase does not exceed the typical range. Benzene concentrations in hydrogeologically upgradient well G575 and adjacent wells G592 and G594 were not reported above the laboratory method detection limit, thus the concentration increase appears to be isolated to the G591 well. The well will continue to be monitored at scheduled intervals and no further evaluation is required at this time.

A summary of the trends analysis is provided in Table 4. Line graphs are presented for benzene in G591 and PCE in G600 in Appendix B.1. Trend analysis graphs are included in Appendix B.2.

5.5 Groundwater-Surface Water Interaction Monitoring Results

Two shoreline wells (G211 and G570) downgradient of the plume were added in fall 2020 (Figure 8) to assess groundwater-surface water interactions (GSI).

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Conventional parameters were dissimilar between the two GSI wells, with total iron and TDS concentrations being elevated in G570 relative to G211. Dissolved iron concentrations in G570 were similar in value to those observed in plume and guard wells.

COCs were not detected in GSI well G211; two COCs (TCE and cis-1,2-DCE) were detected in groundwater from G570 at low concentrations Table 3).

The fall 2020 and spring/fall 2021 monitoring events were the first time these wells have been sampled in recent history; current data are not sufficient to evaluate trends in G570. The wells will continue to be monitored at scheduled intervals and no further evaluation is required at this time.

5.6 Surface Water Monitoring Results

Surface water was sampled at S501 and S502 during the 2021 monitoring.

Conventional parameters were similar at both locations; no comparison was made to ambient groundwater conditions. Conventional parameter results are reported in Table 2. COCs were not detected in either surface water sample in 2021, which is consistent with historical data (analytical data are summarized in Table 3). The site continues to comply with the original post-closure permit and the 2020 AOC.

5.7 Groundwater Flow

5.7.1 Direction

The depth to groundwater was measured in each of the previously identified wells plus additional wells along the shoreline¹ to provide groundwater elevation data across the site. Groundwater elevations were calculated based on the top of well casing (TOC) surveyed elevations. Interpreting site groundwater flow direction is complex due to the geology, history of surface mining and associated site disturbances, and the installation of barrier walls around the Old Chem Site and along the southern edge of the New Chem Site. Generally, the unconsolidated glacial deposit upper aquifer flows from a hydrogeologic high centered around well G192 toward the northwest and northeast. The barrier walls surrounding the Old Chem Site appear to disrupt flow to the northeast. East of the Old Chem Site groundwater flows to the east-southeast. Groundwater in the deeper bedrock aquifer appears to flow toward a northeast-trending trough located beneath the New Chem site and does not appear to be affected by the barrier walls. Groundwater contours are presented in Figures 4 through 7. Groundwater sampling logs and elevation data are included in Appendix C.

5.7.2 Gain/Loss Assessment

To assess whether Trout Lake gains/intercepts groundwater or loses water into the surrounding sediments, eight established monitoring wells located along the shoreline

¹ Additional shoreline wells used to measure groundwater elevations included RIB-6, RIB-11, 572, 573, 574 and 212. See Figure 9 for locations.

were surveyed and added to the current monitoring well network for static water level measurements in the spring and fall (Figure 9, Shoreline Monitoring Well Locations for Fall 2020 Lake Gain/Loss Assessment). Water levels measured in the spring and fall of 2021 indicate that upland groundwater is discharging to the lake (i.e., the lake level is lower than the well elevations).

6 Inspections and Maintenance

6.1 *Physical Inspections*

Facility inspections performed in 2021 included assessing the physical integrity and condition of the vegetation landfill caps, containment/barrier walls, leachate collection system, stormwater drainage, and boundary fence and site access controls. Additionally, groundwater monitoring well monuments were also assessed. Engineering control deficiencies are noted in Exception Reports. No engineering control deficiencies were reported.

6.1.1 *Landfill Cover and Stormwater Drainage*

No deficiencies were reported.

Landfill cover vegetation, containment/barrier walls, slopes and stormwater runoff areas were in good condition. Mowing and trimming activities were performed twice during the year. A total of 44.06 inches of precipitation has been measured through December 2021. Stormwater drainage ditches and other ditches were clear, properly sloped and prepared to handle runoff.

6.1.2 *Monitoring Wells and Fence Lines*

No deficiencies were reported.

The Chem Site boundary fence was in good condition. Monitoring well monuments were in excellent condition and locked with security seals.

6.2 *Annual Certification*

U.S. Ecology affirms that the institutional controls and deed restrictions remain in place for the Sheffield facility, as required by the LTSP and the AOC.

6.3 *Leachate Collection System and Management*

No deficiencies were reported.

New numbers were installed on the leachate collection sumps. Thirteen (13) sumps were observed with rodent holes at ground level; topsoil, seed and fertilizer were placed to fill the holes. In general, the leachate collection sumps were in good condition. A total of 3,591 gallons of leachate were collected between August and October 2021 (Appendix D). The leachate was stored on site prior to disposing at Veolia in Port Arthur, Texas in October 2021. PCB hazardous waste was stored on site prior to disposing at US Ecology Texas in November 2021. A copy of the disposal manifests are included in Appendix D.

7 Conclusions

The spring and fall 2021 analytical data indicate that site contamination remains within the existing on-site plume with no indication of contaminant migration outside the monitoring area.

COC concentrations in the Old Chem Site northwest plume area monitored by wells G165, G166 and G168 have declined significantly from historical concentrations and only PCE exceeds its Region 4 screening level at one location (G168). There has been no indication of plume migration to the boundary wells, and it is likely that continued reduction of COCs will occur due to natural attenuation. US Ecology will continue monitoring these wells in accordance with the LTSP.

The Old Chem Site eastern plume area characterized by monitoring wells G547, G564, G575 and G594 indicates some COC variability. Benzene, PCE and TCE concentrations in G547, and cis-1,2-DCE in G564 increased several orders of magnitude from previous monitoring events and may indicate a significant chemical movement within the plume.

Concentrations of COCs in guard wells G591, G592 and G600 have declined from historically elevated concentrations. Though variable reported concentrations of benzene and PCE do not appear to exceed the typical range at this time.

Surface water quality in Trout Lake continues to comply with the terms of the post-closure permit and current LTSP and AOC.

8 References

GeoEngineers. 2019. Conceptual Site Model. Sheffield Former Hazardous Waste Facility, Sheffield, Illinois. July 2, 2019.

GeoEngineers. 2020. Long-term Stewardship Plan—Final. Sheffield Former Hazardous Waste Facility, Sheffield, Illinois. July 28, 2020.

US Ecology Illinois, Inc. 2020. Resource Conservation and Recovery Act. Administrative Order on Consent. Sheffield Facility, Bureau County, Sheffield, IL. September 22, 2020.

Table 1
Response Actions Based on Chemical Monitoring Results
 US Ecology Former Hazardous Waste Facility
 Sheffield, Illinois

Long-Term Stewardship Program Element	Sampling/ Observation Point	Adverse Event	Trigger	Response
Chemical Monitoring				
Groundwater	Boundary well	Contaminated groundwater is migrating toward facility boundary	Groundwater COC concentrations exceed Region 4 surface water screening levels at one or more boundary wells	Evaluate short-term (5 year) COC concentration trends and variability in boundary well. If there appears to be a significant increase in concentration or variability exceeds the typical range, evaluate upgradient wells for similar trend along with any change in groundwater flow path. If exceedance is a function of a landfill source, evaluate integrity of source controls at landfill boundary (may include sampling historical wells); repair remedy element (cap, barrier wall) as needed. Continue monitoring according to scheduled interval.
	Plume well	Groundwater contamination trends change	Statistically significant increasing trend in COC concentration in plume detected	Evaluate guard well COC concentration trends. Continue monitoring at scheduled interval.
	Guard well	Contaminated groundwater is migrating toward lake	Groundwater COC concentrations exceed Region 4 surface water screening levels at one or more guard wells	Evaluate short-term (5 year) trend and variability in guard well. If there appears to be a significant increase in a COC concentration or variability exceeds the typical range, evaluate potential correlation with upgradient COC concentrations to determine potential source of increasing trend. Consider sampling additional historical wells to evaluate performance of upgradient barrier walls. Continue monitoring guard wells at scheduled interval.
Groundwater (continued)	GSI well	Groundwater at shoreline shows evidence of site-specific contamination	Site-specific COCs are detected in shoreline wells	Determine if Region 4 water quality screening levels are exceeded at GSI well. If yes, evaluate upgradient wells within the LTSP monitoring array to determine if there is correlative increase in COC concentrations and/or potential source of the increasing trend. Consider sampling additional historical wells. Consider evaluation of sediment porewater adjacent to the shoreline to determine if shoreline groundwater concentrations are attenuating prior to discharge to surface water (sediment-water interface). Consider an increase to monitoring frequency at GSI wells.
Surface water	Surface water points of compliance	Surface water becomes contaminated with site-specific contaminants of concern	Surface water COC concentrations exceed Region 4 surface water quality criteria	Resample points of compliance to confirm. If confirmed, evaluate groundwater concentrations in LTSP monitoring well array to determine likely source area. Consider sampling additional historical wells to evaluate distribution of contaminants near the POC. Determine the need for and type of corrective action needed based on likely risks to aquatic and water-dependent receptors. Consider an increase in monitoring frequency at POCs or locations within the lake.

Notes:

COC = contaminant of concern

GSI = groundwater-surface water interaction

POC = point of compliance

Table 2

Summary of the 2021 Groundwater and Surface Water Conventional Water Quality Parameter Monitoring Data for the Long-term Stewardship Program¹
US Ecology Former Hazardous Waste Facility
Sheffield, Illinois

Monitoring Location and Type	Spring Event (April 2021)							Fall Event (October 2021)						
	Chloride-Dissolved	Iron- Total	Iron-Dissolved	Manganese - Total	Manganese-Dissolved	Total Dissolved Solids	Sulfate - Dissolved	Chloride-Dissolved	Iron-Total	Iron-Dissolved	Manganese-Total	Manganese-Dissolved	Total Dissolved Solids	Sulfate-Dissolved
Units	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
Surface Water														
S-501	6.4	83	34	54	54	1,700	910	5.1	210	23	70	72	1,700	980
S-502	6.2	44	24	68	54	1,800	930	5	36	26	69	73	1,600	1,000
Boundary Wells														
G-160	4.9	12,000	13,000	290	2,700	2,400	1,800	5.6	2,600	2,800	2,100	2,200	3,400	1,900
G-162	6.3	12,000	9,800	2,600	3,000	3,200	1,800	6.1	63,000	60,000	2,900	3,100	3,500	2,100
Guard Wells														
G-591	27	4,900	5,600	720	800	640	46	30	9,600	10,000	790	880	540	41
G-592	10	88	110	1.5	1.5	730	64	6.6	250	180	12	11	630	59
G-600	8.2	38,000	38,000	770	930	730	74	5.8	110,000	28,000	1,300	1,200	540	70
Plume Wells														
G-165	<1.0	250	230	42	45	800	290	3.6	100	100	11	13	880	350
G-166	3.5	180	67	32	32	610	2.7	3.0	34	29	21	22	520	1.3
G-168	2.3	31	<10	<1.0	<1.0	1,200	360	3	20	<10	<1.0	<1.0	1,100	330
G-547	1.9	11,000	19,000	110	280	300	7.3	18	4,000	15,000	42	160	130	5.7
G-564	12	8,300	14,000	270	280	1,600	5.6	9.5	7,700	8,300	250	230	1,400	440
G-575	6.7	5,300	6,100	32	45	700	57	6.2	6,500	6,600	33	36	540	48
G-594	20	4,100	3,200	48	43	560	26	21	2,300	1,800	24	31	500	25
GSI														
G-211	3.4	4,800	3,500	390	370	540	2.7	2.9	4,500	4,600	390	400	420	2.0
G-570	3	31,000	24,000	230	240	1,800	750	3.7	11,000	14,000	290	400	2,000	790

Notes:

¹ This summary represents a transition from the monitoring program conducted under the 1985 Administrative Order by Consent (AOC) to the Long-term Stewardship Program conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).

mg/L = milligrams per liter; µg/L = micrograms per liter

U = Not detected

Bold value = detected

Shaded value exceeds Ambient Conditions Wells values (LTSP 2021 report inset table II)

Table 3
Summary of the 2021 Groundwater and Surface Water Monitoring Data for the Long-term Stewardship Program¹
US Ecology Former Hazardous Waste Facility
Sheffield, Illinois

Contaminant of Concern ²	Region 4 Screening Level	Units	Surface Water		Groundwater														Surface Water		Groundwater		
			S-501	S-502	G-160	G-162	G-165	G-166	G-168	G-211	G-547	G-564	G-570	G-575	G-591	G-592	G-594	G-600	Frequency of Detection	Frequency of Exceedance	Frequency of Detection	Frequency of Exceedance	
Spring Sampling Event–April 20, 2020																							
1,1-Dichloroethane	410	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	1.3	<1	43	14	53	1.3	8.5	0%	0%	50%	0%
1,1-Dichloroethene	130	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	1.6	<1	<1	<1	0%	0%	15%	0%
1,2-Dichloroethane	2000	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	1.8	<1	<1	8.8	<1	<1	1.6	0%	0%	28%	0%
1,2-Dichloropropane	520	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.7	<1	<1	<1	0%	0%	1%	0%
Benzene	160	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	42	8	<1	<1	360	<1	<1	<1	0%	0%	21%	1%
Chloroform	140	µg/L	<1	<1	<1	<1	<1	<1	<1	1.8	<1	<1	<1.0	<1	1.9	<1.0	2.1	<1	<1	0%	0%	21%	0%
cis-1,2-Dichloroethene	620	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	35	380	4.4	1.4	380	3	25	310	0%	0%	57%	0%
Methylene Chloride	1,500	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6	<1.0	<1	<1	<1	<1	<1	<1	0%	0%	1%	0%
Tetrachloroethene	53	µg/L	<1	<1	<1	<1	<1	<1	<1	98	<1	47	<1.0	<1	7.6	<1	23	2.2	150	0%	0%	42%	14%
trans-1,2-Dichloroethene	558	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.1	6.6	<1	<1	1.5	<1	<1	3.2	0%	0%	28%	0%
Trichloroethene	220	µg/L	<1	<1	<1	<1	<1	<1	<1	3.8	<1	97	<1.0	1.7	1.7	3.1	3	2.4	170	0%	0%	57%	0%
Vinyl Chloride	930	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.8	110	<1	<1	310	<1	<1	20	0%	0%	28%	0%
Fall Sampling Event–October 1, 2020																							
1,1-Dichloroethane	410	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.1	1.4	<1	35	23	52	2.5	20	0%	0%	50%	0%
1,1-Dichloroethene	130	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.5	5.8	<1	<1	<1	<1	<1	<1	0%	0%	14%	0%
1,2-Dichloroethane	2000	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	1.8	<1	<1	6.3	<1	1.3	1.2	0%	0%	35%	0%
1,2-Dichloropropane	520	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	4.2	<1	1	<1	0%	0%	21%	0%
Benzene	160	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	230	11	<1	<1	210	<1	<1	<1	0%	0%	21%	14%
Chloroform	140	µg/L	<1	<1	<1	<1	<1	<1	<1	3.1	<1	<1	<1	<1	1.5	<1	1.6	<1	<1	0%	0%	21%	0%
cis-1,2-Dichloroethene	620	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	170	1900	3.5	2.9	84	4.3	75	240	0%	0%	57%	1%
Methylene Chloride	1,500	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	14	<1	<1	<1	<1	<1	<1	<1	0%	0%	1%	0%
Tetrachloroethene	53	µg/L	<1	<1	<1	<1	<1	<1	<1	110	<1	120	6.2	<1	6.1	<1	24	2.4	22	0%	0%	50%	14%
trans-1,2-Dichloroethene	558	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	14	<1	<1	<1	<1	<1	3.4	0%	0%	21%	0%
Trichloroethene	220	µg/L	<1	<1	<1	<1	<1	<1	<1	5.6	<1	350	3.4	<1	<1	3.2	4.5	4.7	93	0%	0%	50%	1%
Vinyl Chloride	930	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	38	100	<1	<1	95	<1	<1	45	0%	0%	28%	0%

Notes:

¹ This summary represents a transition from the monitoring program conducted under the 1985 Administrative Order by Consent (AOC) to the Long-term Stewardship Program

conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).

² Several other contaminants (1,4-dioxane, chloromethane, methacrylonitrile and vinyl acetate) were analyzed for during the Spring 2020 monitoring event but were not detected. These contaminants were not identified as COCs based on a site-wide analysis.

µg/L = micrograms per liter

"<" = Not detected

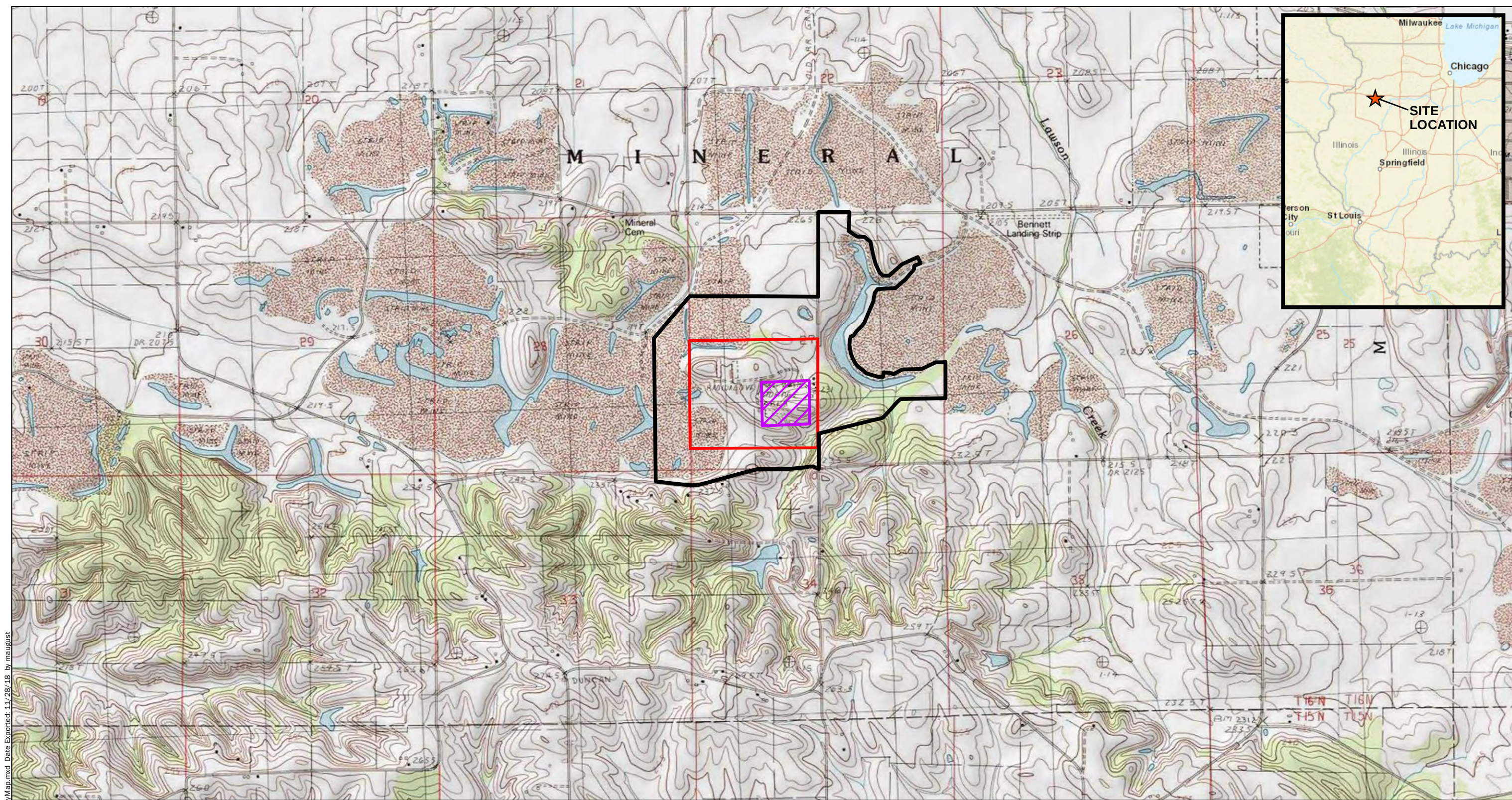
Bold value = detected

Shaded value exceeds US EPA Region 4 surface water screening value for hazardous waste sites (USEPA 2018)

Table 4
Summary of the 2021 Groundwater Trends for the Long-term Stewardship Program¹
US Ecology Former Hazardous Waste Facility
Sheffield, Illinois

Contaminant of Concern	Boundary		Plume Wells							Guard Wells			GSI Wells	
	G-160	G-162	G-165	G-166	G-168	G-547	G-564	G-575	G-594	G-591	G-592	G-600	G-211	G-570
1,1-Dichloroethane	Not detected		Not detected or below screening level since 1999										Not detected	
1,1-Dichloroethene	Not detected		Not detected or below screening level since 1999										Not detected	
1,2-Dichloroethane	Not detected		Not detected or below screening level since 1999										Not detected	
1,2-Dichloropropane	Not detected		Not detected or below screening level since 1999										Not detected	
Benzene	Not detected		Not detected or below screening level since 1999			↓	↓	Not detected	Exceeded screening level once (2002)	Insufficient evidence of decreasing trend	Detected once	Exceeded screening level once (2000)	Not detected	
Chloroform	Not detected		Not detected or below screening level since 1999			Detected below the screening level; not detected since 2012	Not detected since 2001	Not detected or below screening level since 1999	Not detected since 2007	↓	Not detected or below the screening level except once (2003)	Not detected or below screening level since 1999	Not detected	
cis-1,2-Dichloroethene	Not detected	Detected at the quantitation limit	↓	Not detected	↓	↓	↓ (last 6 years)	↓	↓ (last 4 years)	Insufficient evidence of decreasing trend	Not detected or below screening level since 1999	↓	Not detected	Dected below the screening level
Methylene Chloride	Not detected		Not detected or below screening level since 1999			↓	Not detected or below screening level since 1999			Not detected or below screening level since 2001	Not detected or below screening level since 1999		Not detected	
Tetrachloroethene	Not detected		Not detected	Not detected	↓	↓	↓	↓	Insufficient evidence of decreasing trend	↓	↓ (last 5 years)	↓	Not detected	
trans-1,2-Dichloroethene	Not detected		Not detected or below screening level since 1999										Not detected	
Trichloroethene	Not detected		Not detected	Not detected	Detected below screening level since 1999	↓	↓	Not detected or below screening level since 1999	↓ (last 13 years)	↓	Not detected or below screening level since 1999	↓ (last 5 years)	Not detected	Dected below the screening level
Vinyl Chloride	Not detected		Not detected or below screening level since 1999				Exceeded screening level once (2007)	Not detected or below screening level since 1999		Not detected or below screening level since 2005	Not detected or below screening level since 1999		Not detected	

Notes:
¹ This summary represents a transition from the monitoring program conducted under the 1985 Administrative Order by Consent (AOC) to the Long-term Stewardship Program conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).
↓ Statistically significantly decreasing trend since 1999 or as indicated.
GSI wells = groundwater-surface water interaction wells



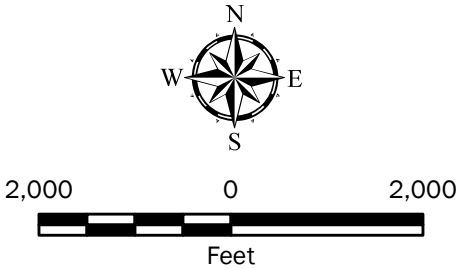
P:\19\19730002\GIS\MXD\197300200_VicinityMap.mxd Date Exported: 11/28/18 by maugust

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

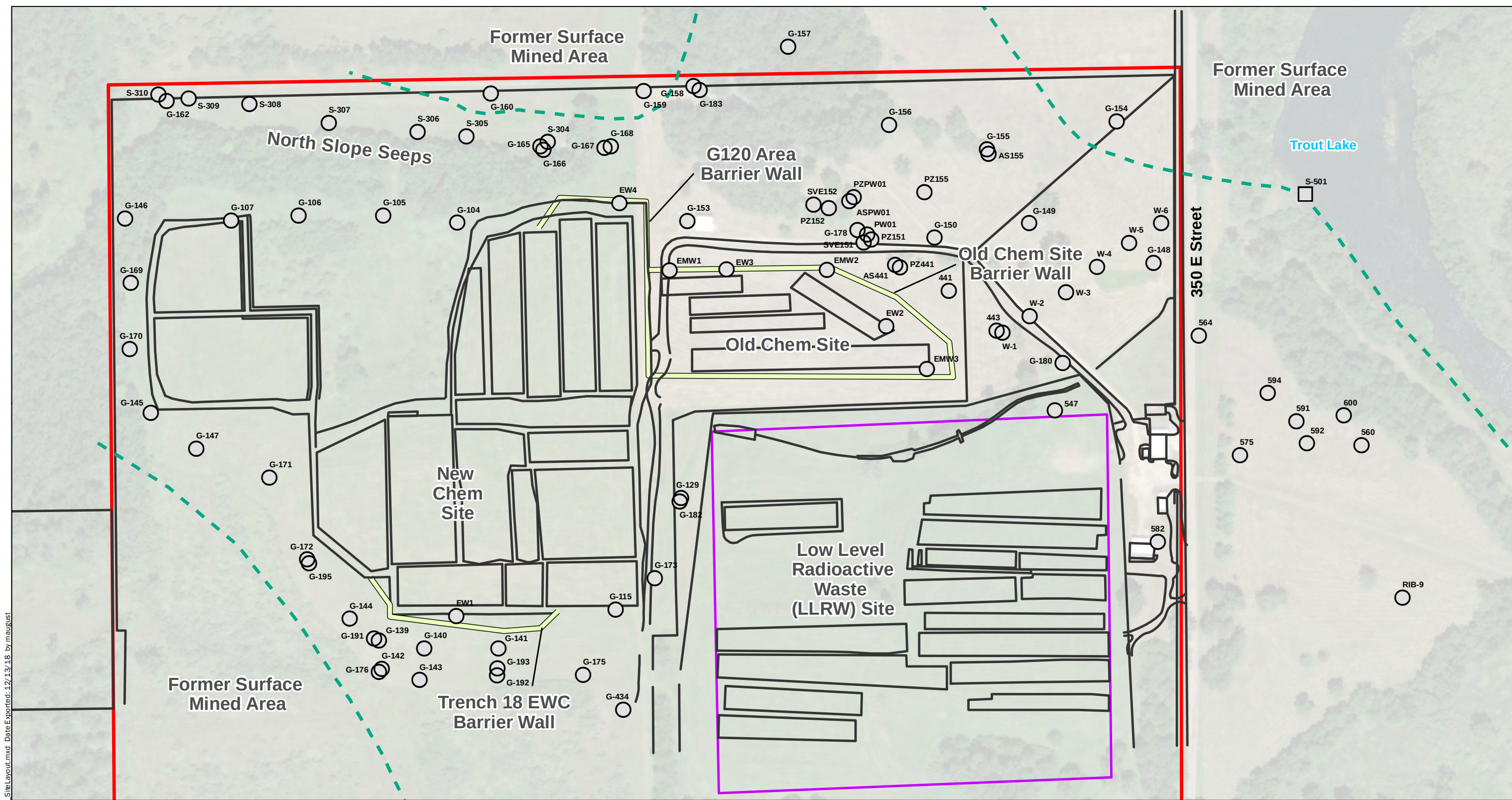
Data Source:

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

- Legend**
- U.S. Ecology Sheffield Property Line
 - Facility Legal Boundary
 - Property Owned by State of Illinois



Vicinity Map	
US Ecology Former Hazardous Waste Facility Sheffield, Illinois	
	Figure 1



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Notes:

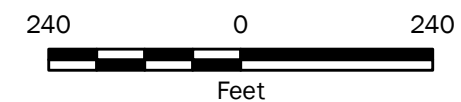
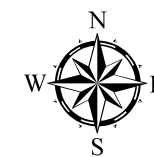
1. The locations of all features shown are approximate.
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Data Source: PDC Technical Services, Inc., 2008.

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- Surface Water Sample Location
- Groundwater Monitoring Wells
- Facility Legal Boundary
- Property Owned by State of Illinois
- Barrier Walls
- - - Boundary of Former Surface Mining

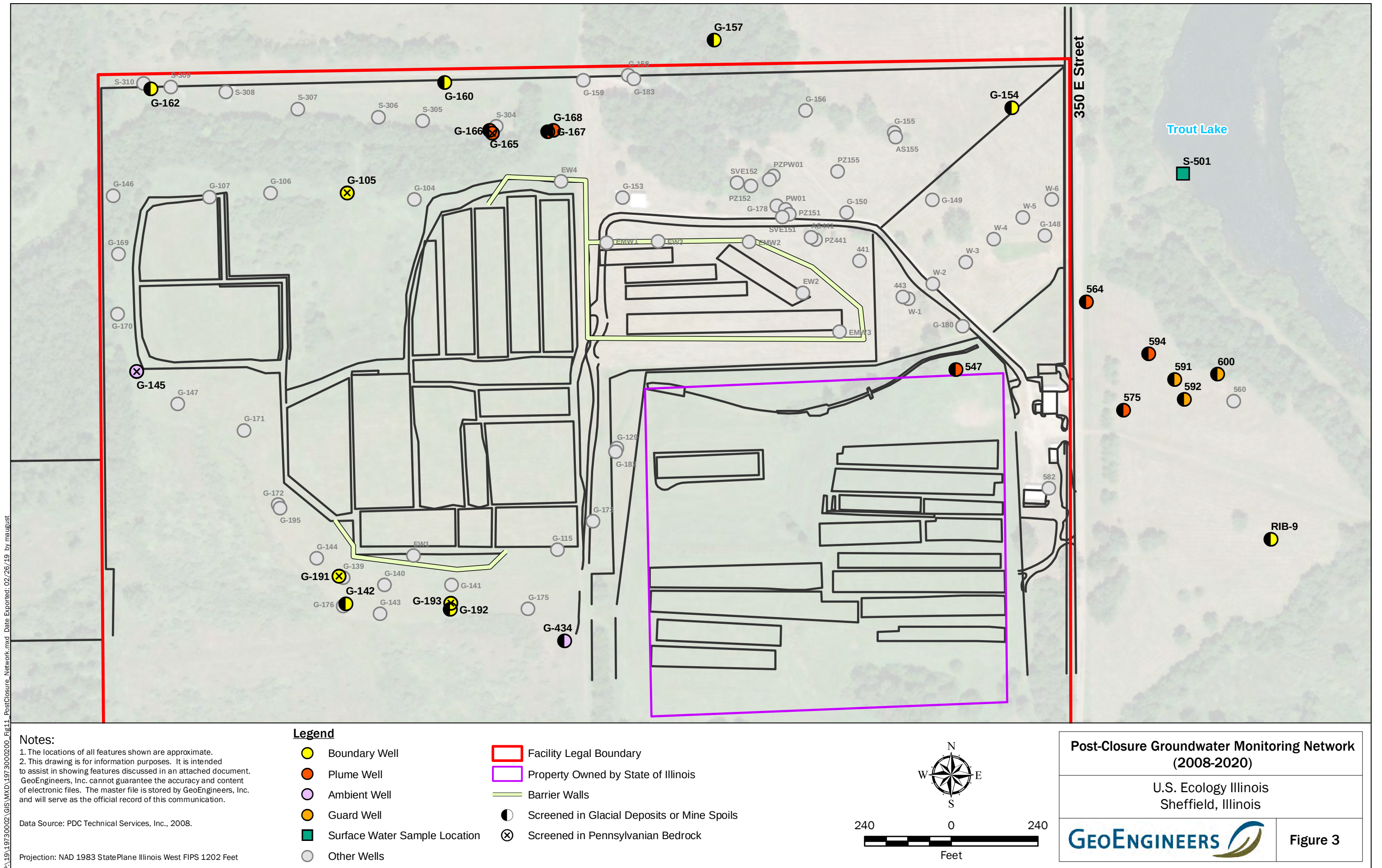


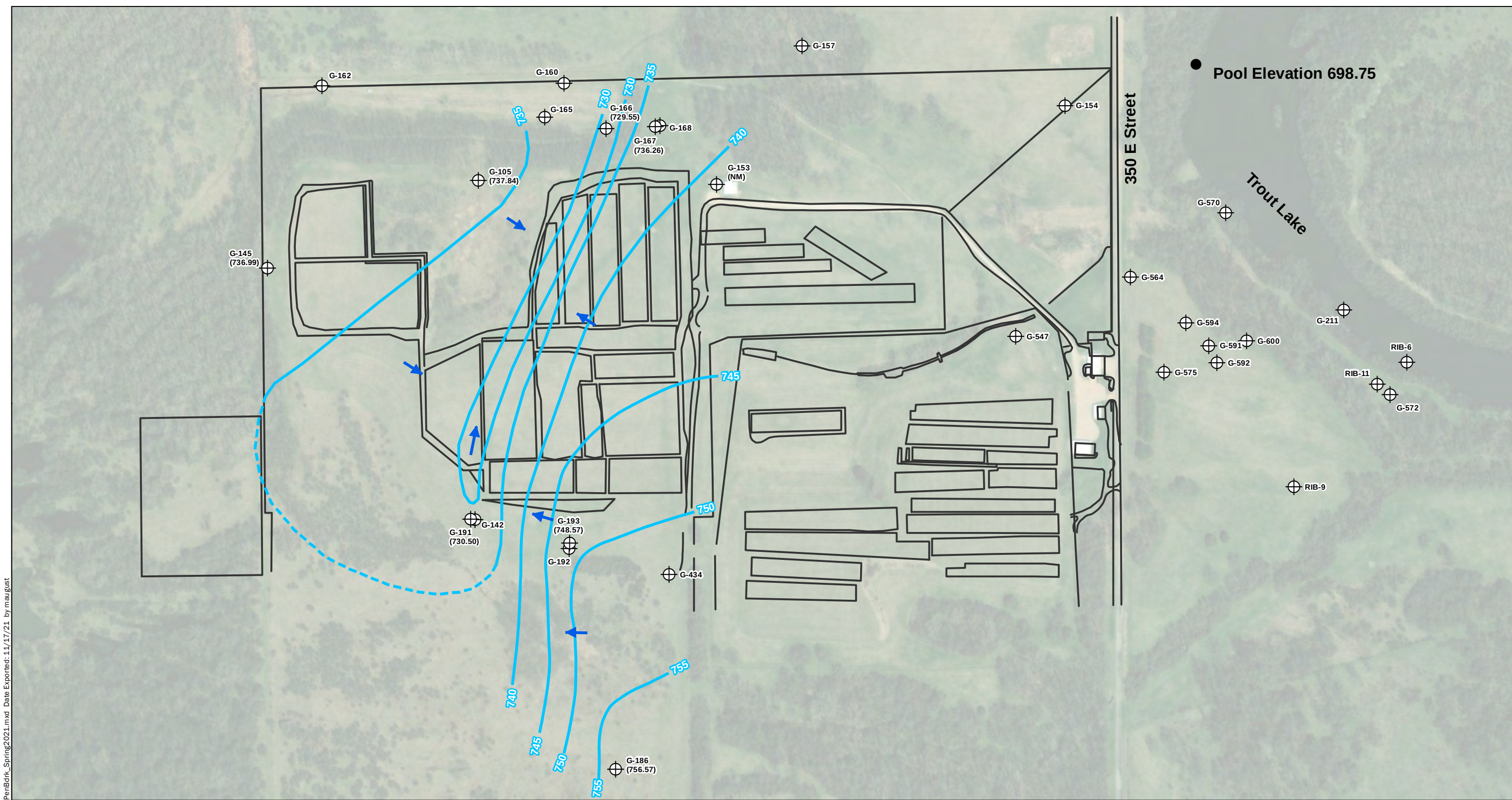
Site Layout

US Ecology Former Hazardous Waste Facility
Sheffield, Illinois



Figure 2





Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

G-105 (737.63) Approximate Monitoring Well Location, Designation, and Potentiometric Elevation³

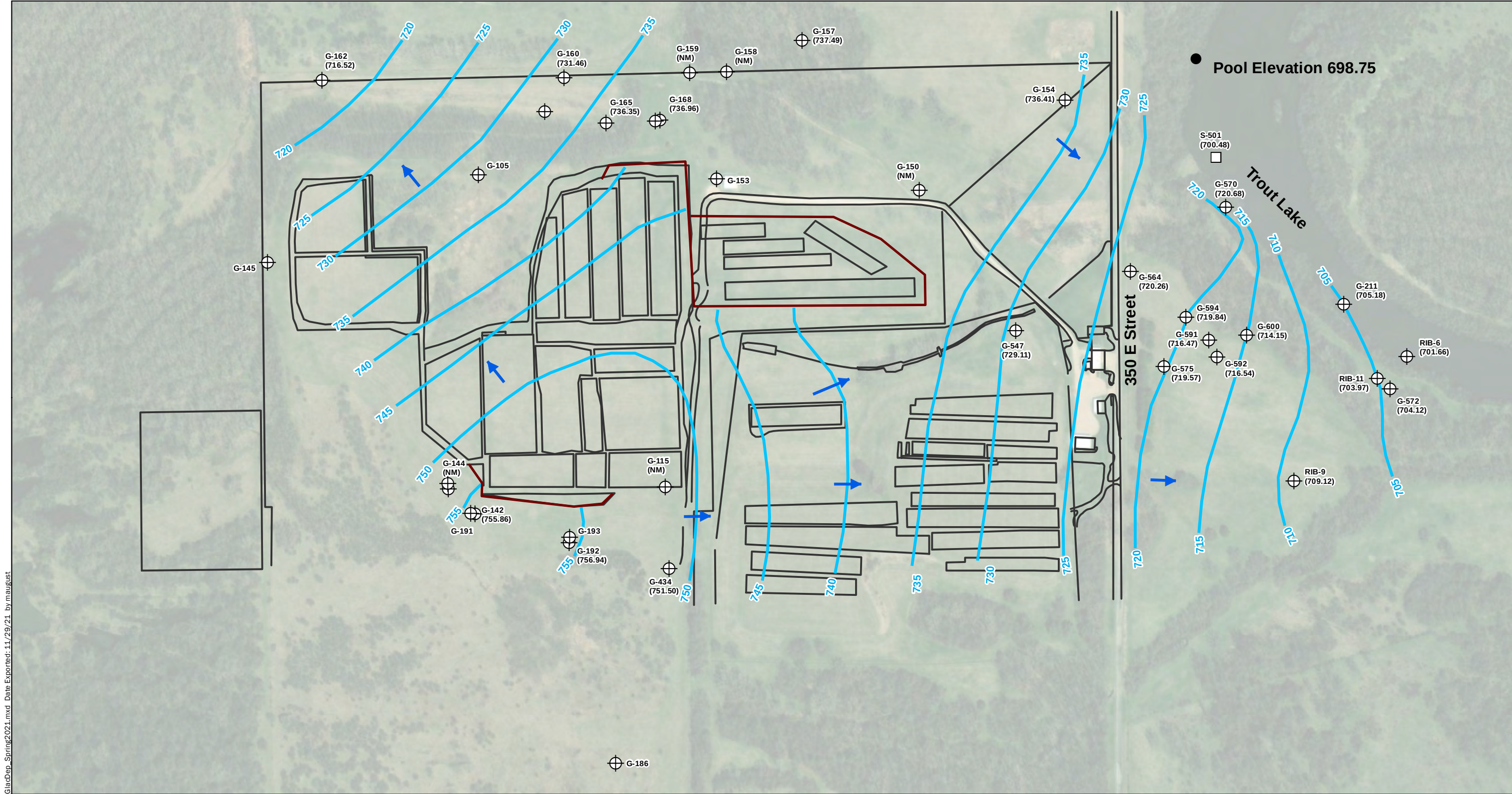
Groundwater Elevation Contour (5-Foot Interval, Dashed where inferred)

Interpreted Groundwater Flow Direction

**2021 Pennsylvanian Bedrock (Spring)
Groundwater Contours**

U.S. Ecology Illinois
Sheffield, Illinois

Figure 4



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

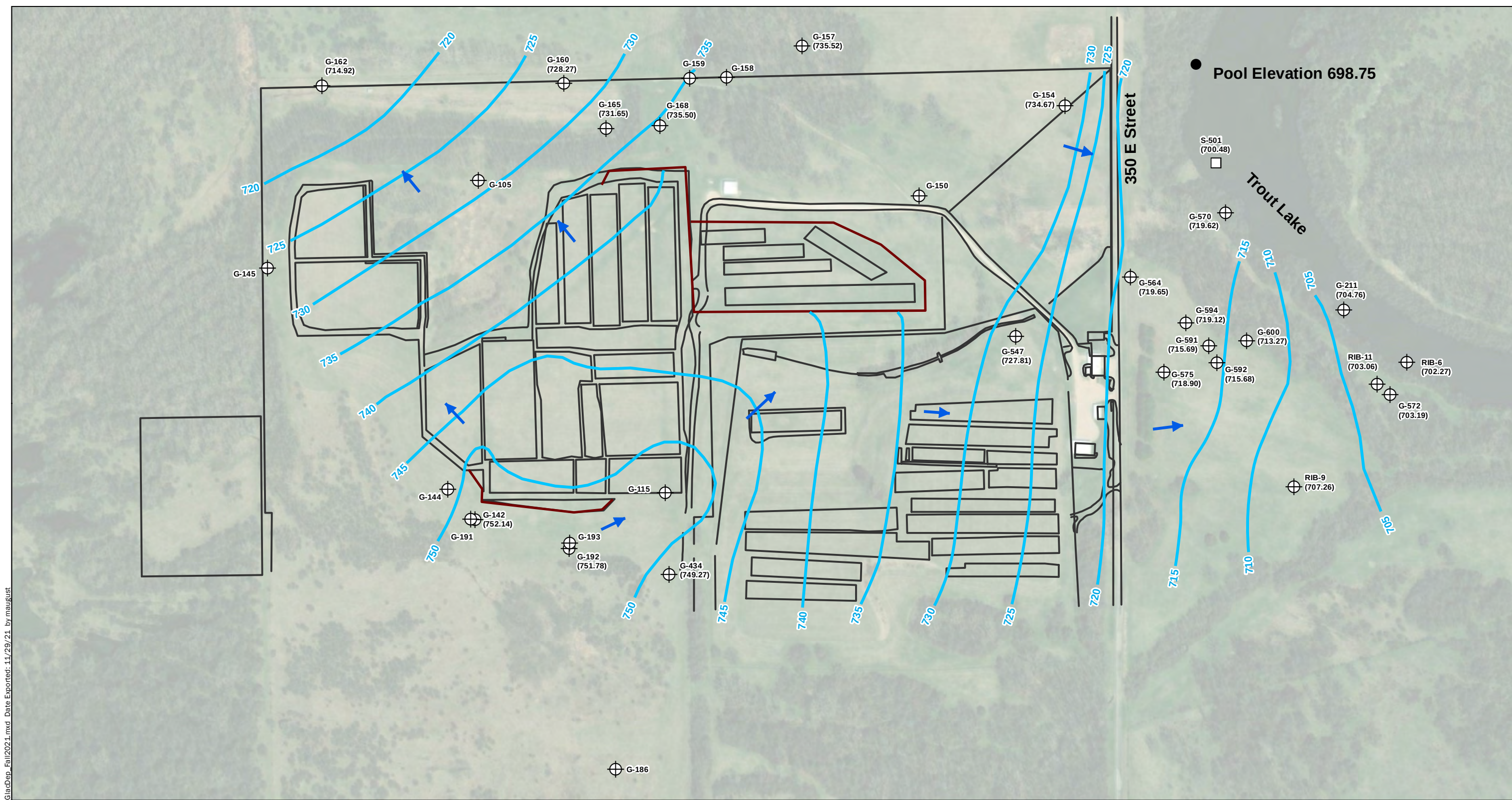
Legend

- Approximate Monitoring Well Location, Designation, and Potentiometric Elevation³
- Groundwater Elevation Contour (5-Foot Interval)
- Barrier Wall
- Interpreted Groundwater Flow Direction

Feet

2021 Glacial Deposit (Spring) Groundwater Contours	
U.S. Ecology Illinois Sheffield, Illinois	
	Figure 5

P:\19\19730001\GIS\mxd\1973000100_F05_Glacial_Dep_Spring2021.mxd Date Exported: 11/29/21 by maugust



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

G-142 (750.23) Approximate Monitoring Well Location, Designation, and Potentiometric Elevation³

Groundwater Elevation Contour (5-Foot Interval)

Barrier Wall

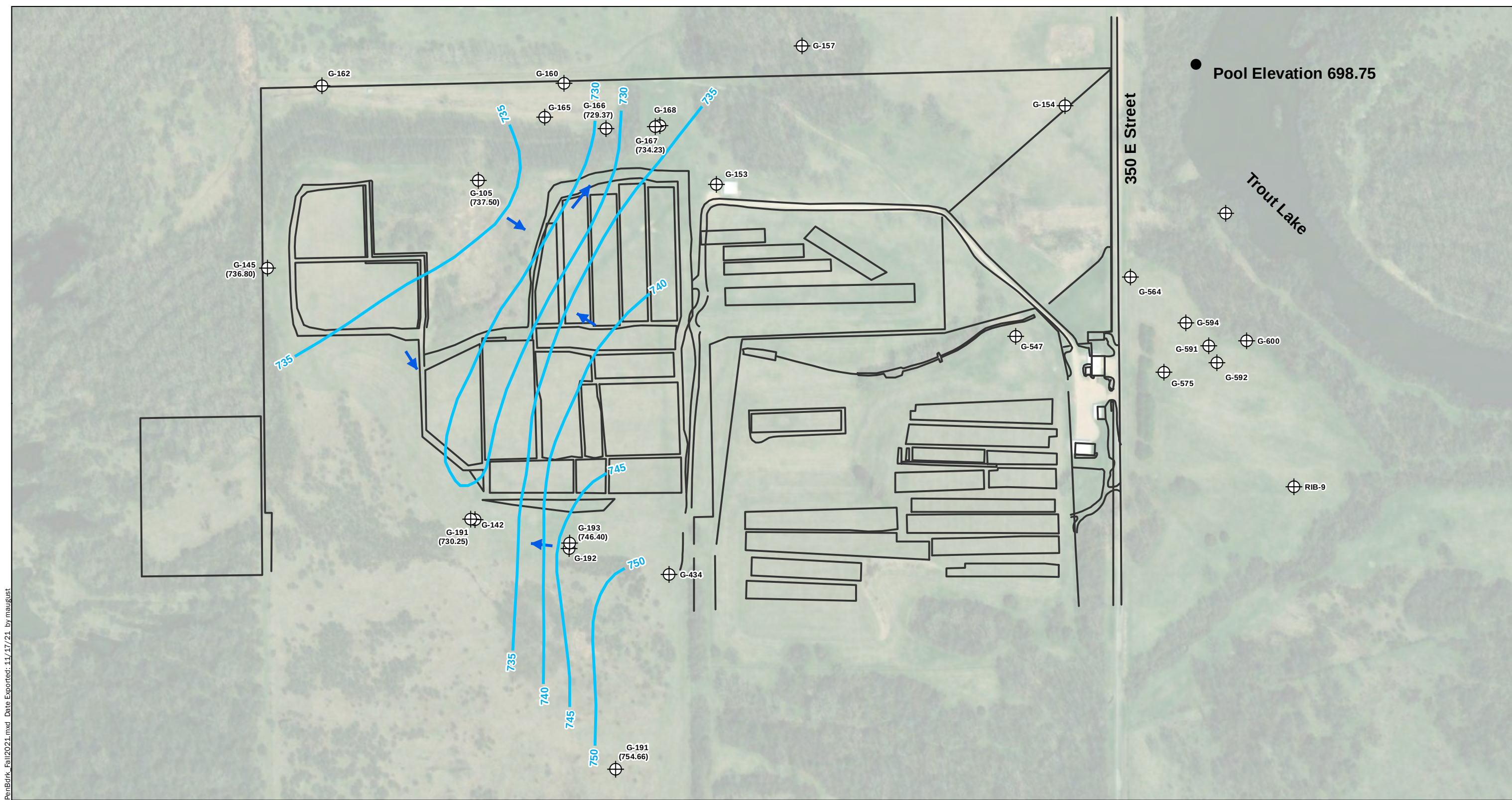
Interpreted Groundwater Flow Direction

300 0 300

Feet

2021 Glacial Deposit (Fall) Groundwater Contours	
U.S. Ecology Illinois Sheffield, Illinois	
	Figure 6

P:\19\19730001\GIS\mxd\1973000100_F06_Glacial_Deposit_Fall2021.mxd Date Exported: 11/29/21 by maugust



P:\19\19730001\GIS\mxd\1973000100_F07_PenBdrk_Fall2021.mxd Date Exported: 11/17/21 by maugust

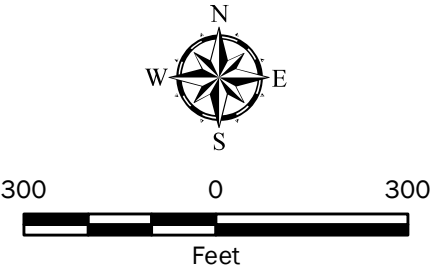
- Notes:**
1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

-  G-105 (737.34) Approximate Monitoring Well Location, Designation, and Potentiometric Elevation³
-  Groundwater Elevation Contour (5-Foot Interval)
-  Interpreted Groundwater Flow Direction



2021 Pennsylvanian Bedrock (Fall) Groundwater Contours	
U.S. Ecology Illinois Sheffield, Illinois	
	Figure 7



Notes:

1. The locations of all features shown are approximate.

2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: PDC Technical Services, Inc., 2008.

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

Boundary Well	Surface Water Sample Location	Barrier Walls
Plume Well	Other Wells	Screened in Glacial Deposits or Mine Spoils
Guard Well	Facility Legal Boundary	Screened in Pennsylvanian Bedrock
5-Year Review Well	Property Owned by State of Illinois	
Groundwater-Surface Interaction Well		

* Sediment in well 571 dry. Replaced with well 570.

300 0 300
Feet

Long-term Stewardship Plan Monitoring Locations

U.S. Ecology Illinois
Sheffield, Illinois

GEOENGINEERS

Figure 8

P:\19\19730002\GIS\MXD\1973000200_Fig2_LTSewardshipMonNetwork_05112020_new.mxd Date Exported: 05/14/20 by maugust



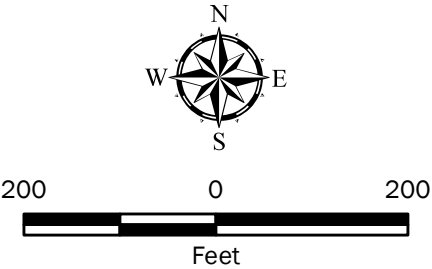
P:\19\19730002\GIS\MXD\1973000200_Fig9_2021_ShorelineGainLoss.mxd Date Exported: 01/05/22 by maugust

- Notes:**
- 1. The locations of all features shown are approximate.
 - 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 - 3. Potentiometric elevation data are in feet.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

- Legend**
- Water Level Measurement Well
 - Surface Water Sample Location
 - Earthen Dam Approximate Location



Shoreline Monitoring Well Locations for Fall 2021 Lake Gain/Loss Assessment	
U.S. Ecology Illinois Sheffield, Illinois	
	Figure 9

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

APPENDIX A

Analytical Results

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

APPENDIX A.1

Laboratory Reports



May 18, 2021

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the analytical results for the **19** sample(s) the laboratory received on **4/28/21 9:30 am** and logged in under work order **ED05100**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gschindler@pdclab.com



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order ED05100

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: ED05100-01
Name: G160
Matrix: Ground Water - Grab

Sampled: 04/27/21 09:30
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3300	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	4.9	mg/L		05/04/21 13:30	1	1.0	05/04/21 13:30	EJO	EPA 300.0 REV 2.1
Sulfate, Dissolved	1800	mg/L		05/03/21 10:13	250	250	05/03/21 10:13	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2400	mg/L		04/29/21 14:27	1	26	04/29/21 15:37	BMA	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	13000	ug/L		05/03/21 06:15	5	10	05/04/21 10:52	JMW	EPA 6020A*
Magnesium, Dissolved	300	mg/L		05/03/21 06:15	5	0.10	05/04/21 10:52	JMW	EPA 6020A
Manganese, Dissolved	2700	ug/L		05/03/21 06:15	5	1.0	05/04/21 10:52	JMW	EPA 6020A
Total Metals - PIA									
Iron	12000	ug/L		05/05/21 14:16	5	10	05/06/21 15:34	JMW	EPA 6020A*
Magnesium	290	mg/L		05/05/21 14:16	5	0.10	05/06/21 15:34	JMW	EPA 6020A
Manganese	2400	ug/L		05/05/21 14:16	5	1.0	05/06/21 15:34	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 11:36	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-02
Name: G162
Matrix: Ground Water - Grab

Sampled: 04/27/21 09:20
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	3200	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.3	mg/L		05/04/21 13:48	1	1.0	05/04/21 13:48	EJO	EPA 300.0 REV 2.1
Sulfate, Dissolved	1800	mg/L		05/03/21 10:49	250	250	05/03/21 10:49	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3200	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	9800	ug/L		05/03/21 06:15	5	10	05/04/21 10:56	JMW	EPA 6020A*
Magnesium, Dissolved	300	mg/L		05/03/21 06:15	5	0.10	05/04/21 10:56	JMW	EPA 6020A
Manganese, Dissolved	3000	ug/L		05/03/21 06:15	5	1.0	05/04/21 10:56	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	12000	ug/L		05/05/21 14:16	5	10	05/06/21 15:37	JMW	EPA 6020A*
Magnesium	280	mg/L		05/05/21 14:16	5	0.10	05/06/21 15:37	JMW	EPA 6020A
Manganese	2600	ug/L		05/05/21 14:16	5	1.0	05/06/21 15:37	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:03	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-03
Name: G165
Matrix: Ground Water - Grab

Sampled: 04/27/21 09:01
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	720	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		05/03/21 11:07	1	1.0	05/03/21 11:07	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	290	mg/L		05/03/21 11:25	50	50	05/03/21 11:25	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	800	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	230	ug/L		05/03/21 06:15	5	10	05/04/21 10:59	JMW	EPA 6020A*
Magnesium, Dissolved	60	mg/L		05/03/21 06:15	5	0.10	05/04/21 10:59	JMW	EPA 6020A
Manganese, Dissolved	45	ug/L		05/03/21 06:15	5	1.0	05/04/21 10:59	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	250	ug/L		05/05/21 14:16	5	10	05/06/21 15:40	JMW	EPA 6020A*
Magnesium	57	mg/L		05/05/21 14:16	5	0.10	05/06/21 15:40	JMW	EPA 6020A
Manganese	42	ug/L		05/05/21 14:16	5	1.0	05/06/21 15:40	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:31	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-04
Name: G166
Matrix: Ground Water - Grab

Sampled: 04/27/21 09:10
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	470	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.5	mg/L	Q3	05/03/21 11:43	1	1.0	05/03/21 11:43	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	2.7	mg/L		05/03/21 11:43	1	1.0	05/03/21 11:43	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	610	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	67	ug/L		05/03/21 06:15	5	10	05/04/21 11:03	JMW	EPA 6020A*
Magnesium, Dissolved	1.8	mg/L		05/03/21 06:15	5	0.10	05/04/21 11:03	JMW	EPA 6020A
Manganese, Dissolved	32	ug/L		05/03/21 06:15	5	1.0	05/04/21 11:03	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	180	ug/L		05/05/21 14:16	5	10	05/06/21 15:44	JMW	EPA 6020A*
Magnesium	1.9	mg/L		05/05/21 14:16	5	0.10	05/06/21 15:44	JMW	EPA 6020A
Manganese	32	ug/L		05/05/21 14:16	5	1.0	05/06/21 15:44	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 12:58	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-05
Name: G168
Matrix: Ground Water - Grab

Sampled: 04/27/21 08:48
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1100	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	2.3	mg/L	Q3	05/03/21 12:37	1	1.0	05/03/21 12:37	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	360	mg/L	Q4	05/03/21 14:08	50	50	05/03/21 14:08	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1200	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	< 10	ug/L		05/03/21 06:15	5	10	05/04/21 11:07	JMW	EPA 6020A*
Magnesium, Dissolved	120	mg/L		05/03/21 06:15	5	0.10	05/04/21 11:07	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/03/21 06:15	5	1.0	05/04/21 11:07	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	31	ug/L		05/05/21 14:16	5	10	05/06/21 15:57	JMW	EPA 6020A*
Magnesium	110	mg/L		05/05/21 14:16	5	0.10	05/06/21 15:57	JMW	EPA 6020A
Manganese	< 1.0	ug/L		05/05/21 14:16	5	1.0	05/06/21 15:57	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Chloroform	1.8	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Tetrachloroethene	98	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Trichloroethene	3.8	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:25	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-06
Name: G211
Matrix: Ground Water - Grab

Sampled: 04/27/21 11:05
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	430	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.4	mg/L	Q3	05/03/21 14:26	1	1.0	05/03/21 14:26	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	2.7	mg/L		05/03/21 14:26	1	1.0	05/03/21 14:26	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	540	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	3500	ug/L		05/03/21 06:15	5	10	05/04/21 11:11	JMW	EPA 6020A*
Magnesium, Dissolved	41	mg/L		05/03/21 06:15	5	0.10	05/04/21 11:11	JMW	EPA 6020A
Manganese, Dissolved	370	ug/L		05/03/21 06:15	5	1.0	05/04/21 11:11	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	4800	ug/L		05/05/21 14:16	5	10	05/06/21 16:00	JMW	EPA 6020A*
Magnesium	34	mg/L		05/05/21 14:16	5	0.10	05/06/21 16:00	JMW	EPA 6020A
Manganese	390	ug/L		05/05/21 14:16	5	1.0	05/06/21 16:00	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 13:53	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-07
Name: G547
Matrix: Ground Water - Grab

Sampled: 04/27/21 09:40
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	2900	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	1.9	mg/L		05/04/21 14:07	1	1.0	05/04/21 14:07	EJO	EPA 300.0 REV 2.1
Sulfate, Dissolved	7.3	mg/L		05/03/21 15:20	1	1.0	05/03/21 15:20	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	300	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	19000	ug/L		05/03/21 06:15	5	10	05/04/21 13:03	JMW	EPA 6020A*
Magnesium, Dissolved	30	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:03	JMW	EPA 6020A
Manganese, Dissolved	280	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:03	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	11000	ug/L		05/05/21 14:16	5	10	05/06/21 16:03	JMW	EPA 6020A*
Magnesium	22	mg/L		05/05/21 14:16	5	0.10	05/06/21 16:03	JMW	EPA 6020A
Manganese	110	ug/L		05/05/21 14:16	5	1.0	05/06/21 16:03	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	1.4	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
1,2-Dichloroethane	2.8	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Benzene	42	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
cis-1,2-Dichloroethene	35	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
trans-1,2-Dichloroethene	5.1	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Methylene chloride	4.6	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Tetrachloroethene	47	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Trichloroethene	97	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B
Vinyl chloride	7.8	ug/L		05/03/21 09:09	1	1.0	05/03/21 17:48	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-08
Name: G564
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:05
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1400	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	12	mg/L		05/03/21 15:38	10	10	05/03/21 15:38	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	5.6	mg/L		05/04/21 14:25	1	1.0	05/04/21 14:25	EJO	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1600	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	14000	ug/L		05/03/21 06:15	5	10	05/04/21 13:07	JMW	EPA 6020A*
Magnesium, Dissolved	130	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:07	JMW	EPA 6020A
Manganese, Dissolved	280	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:07	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	8300	ug/L		05/05/21 14:16	5	10	05/06/21 16:06	JMW	EPA 6020A*
Magnesium	130	mg/L		05/05/21 14:16	5	0.10	05/06/21 16:06	JMW	EPA 6020A
Manganese	270	ug/L		05/05/21 14:16	5	1.0	05/06/21 16:06	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	1.3	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
1,1-Dichloroethene	1.4	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
1,2-Dichloroethane	1.8	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
Benzene	8.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
cis-1,2-Dichloroethene	380	ug/L		05/03/21 09:09	10	10	05/03/21 18:15	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
trans-1,2-Dichloroethene	6.6	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 14:47	SEB	EPA 8260B
Vinyl chloride	110	ug/L		05/03/21 09:09	10	10	05/03/21 18:15	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-09
Name: G570
Matrix: Ground Water - Grab

Sampled: 04/27/21 11:15
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1600	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.0	mg/L		05/03/21 16:14	1	1.0	05/03/21 16:14	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	750	mg/L		05/03/21 17:08	100	100	05/03/21 17:08	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1800	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	24000	ug/L		05/03/21 06:15	5	10	05/04/21 13:10	JMW	EPA 6020A*
Magnesium, Dissolved	190	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:10	JMW	EPA 6020A
Manganese, Dissolved	240	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:10	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	31000	ug/L		05/05/21 14:19	5	10	05/07/21 09:14	JMW	EPA 6020A*
Magnesium	180	mg/L		05/05/21 14:19	5	0.10	05/07/21 13:50	JMW	EPA 6020A
Manganese	230	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:14	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
cis-1,2-Dichloroethene	4.4	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Trichloroethene	1.7	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:15	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-10
Name: G575
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:16
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	550	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.7	mg/L		05/05/21 23:16	1	1.0	05/05/21 23:16	Igwetche m	EPA 300.0 REV 2.1
Sulfate, Dissolved	57	mg/L	Q4	05/03/21 10:56	10	10	05/03/21 10:56	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	700	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	6100	ug/L		05/03/21 06:15	5	10	05/04/21 13:14	JMW	EPA 6020A*
Magnesium, Dissolved	65	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:14	JMW	EPA 6020A
Manganese, Dissolved	45	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:14	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	5300	ug/L		05/05/21 14:19	5	10	05/07/21 09:18	JMW	EPA 6020A*
Magnesium	58	mg/L		05/05/21 14:19	5	0.10	05/07/21 14:29	JMW	EPA 6020A
Manganese	32	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:18	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	43	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
cis-1,2-Dichloroethene	1.4	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Chloroform	1.9	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Tetrachloroethene	7.6	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Trichloroethene	1.7	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 15:42	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-11
Name: G591
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:33
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	500	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	27	mg/L		05/03/21 11:14	10	10	05/03/21 11:14	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	46	mg/L		05/03/21 11:14	10	10	05/03/21 11:14	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	640	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	5600	ug/L		05/03/21 06:15	5	10	05/04/21 13:18	JMW	EPA 6020A*
Magnesium, Dissolved	71	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:18	JMW	EPA 6020A
Manganese, Dissolved	800	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:18	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	4900	ug/L		05/05/21 14:19	5	10	05/07/21 09:22	JMW	EPA 6020A*
Magnesium	65	mg/L		05/05/21 14:19	5	0.10	05/07/21 14:33	JMW	EPA 6020A
Manganese	720	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:22	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	14	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
1,1-Dichloroethene	1.6	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
1,2-Dichloroethane	8.8	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
1,2-Dichloropropane	2.7	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
Benzene	360	ug/L		05/03/21 09:09	10	10	05/03/21 19:08	SEB	EPA 8260B
cis-1,2-Dichloroethene	380	ug/L		05/03/21 09:09	10	10	05/03/21 19:08	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
trans-1,2-Dichloroethene	1.5	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
Trichloroethene	3.1	ug/L		04/28/21 09:40	1	1.0	04/28/21 16:09	SEB	EPA 8260B
Vinyl chloride	310	ug/L		05/03/21 09:09	10	10	05/03/21 19:08	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-12
Name: G592
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:44
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	610	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	10	mg/L		05/03/21 11:32	10	10	05/03/21 11:32	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	64	mg/L		05/03/21 11:32	10	10	05/03/21 11:32	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	730	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	110	ug/L		05/03/21 06:15	5	10	05/04/21 13:22	JMW	EPA 6020A*
Magnesium, Dissolved	67	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:22	JMW	EPA 6020A
Manganese, Dissolved	1.5	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:22	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	88	ug/L		05/05/21 14:19	5	10	05/07/21 09:26	JMW	EPA 6020A*
Magnesium	63	mg/L		05/05/21 14:19	5	0.10	05/07/21 14:37	JMW	EPA 6020A
Manganese	1.5	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:26	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	53	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Benzene	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
cis-1,2-Dichloroethene	3.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Chloroform	2.1	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Tetrachloroethene	23	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Trichloroethene	3.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		05/03/21 09:09	1	1.0	05/03/21 19:34	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-13
Name: G594
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:25
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	370	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	20	mg/L		05/03/21 11:50	10	10	05/03/21 11:50	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	26	mg/L		05/03/21 11:50	10	10	05/03/21 11:50	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	560	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	3200	ug/L		05/03/21 06:15	5	10	05/04/21 13:25	JMW	EPA 6020A*
Magnesium, Dissolved	49	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:25	JMW	EPA 6020A
Manganese, Dissolved	43	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:25	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	4100	ug/L		05/05/21 14:19	5	10	05/07/21 09:29	JMW	EPA 6020A*
Magnesium	46	mg/L		05/05/21 14:19	5	0.10	05/07/21 14:40	JMW	EPA 6020A
Manganese	48	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:29	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	1.3	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
cis-1,2-Dichloroethene	25	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Tetrachloroethene	2.2	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Trichloroethene	2.4	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:04	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-14
Name: G600
Matrix: Ground Water - Grab

Sampled: 04/27/21 10:53
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	900	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	8.2	mg/L		05/03/21 12:08	1	1.0	05/03/21 12:08	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	74	mg/L	Q4	05/03/21 13:39	10	10	05/03/21 13:39	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	730	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	38000	ug/L		05/03/21 06:15	5	10	05/04/21 13:29	JMW	EPA 6020A*
Magnesium, Dissolved	67	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:29	JMW	EPA 6020A
Manganese, Dissolved	930	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:29	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	38000	ug/L		05/05/21 14:19	5	10	05/07/21 09:33	JMW	EPA 6020A*
Magnesium	60	mg/L		05/05/21 14:19	5	0.10	05/07/21 14:44	JMW	EPA 6020A
Manganese	770	ug/L		05/05/21 14:19	5	1.0	05/07/21 09:33	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	8.5	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
1,2-Dichloroethane	1.6	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
cis-1,2-Dichloroethene	310	ug/L		05/04/21 08:51	10	10	05/04/21 17:55	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
trans-1,2-Dichloroethene	3.2	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
Tetrachloroethene	150	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
Trichloroethene	170	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B
Vinyl chloride	20	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:32	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-15
Name: S501
Matrix: Surface Water - Grab

Sampled: 04/27/21 12:40
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1600	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.4	mg/L		05/03/21 13:57	5	5.0	05/03/21 13:57	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	910	mg/L		05/03/21 14:16	250	250	05/03/21 14:16	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1700	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	34	ug/L		05/03/21 06:15	5	10	05/04/21 13:54	JMW	EPA 6020A*
Magnesium, Dissolved	190	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:54	JMW	EPA 6020A
Manganese, Dissolved	54	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:54	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	83	ug/L		05/06/21 13:42	5	10	05/07/21 16:13	JMW	EPA 6020A*
Magnesium	180	mg/L		05/06/21 13:42	5	0.10	05/07/21 16:13	JMW	EPA 6020A
Manganese	54	ug/L		05/06/21 13:42	5	1.0	05/07/21 16:13	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		05/04/21 08:51	1	1.0	05/04/21 17:29	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 17:59	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-16
Name: S502
Matrix: Surface Water - Grab

Sampled: 04/27/21 13:00
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1700	mg/L		04/28/21 16:35	1	26	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.2	mg/L		05/03/21 14:34	5	5.0	05/03/21 14:34	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	930	mg/L		05/03/21 14:52	250	250	05/03/21 14:52	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1800	mg/L		04/30/21 08:07	1	26	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	24	ug/L		05/03/21 06:15	5	10	05/04/21 13:58	JMW	EPA 6020A*
Magnesium, Dissolved	190	mg/L		05/03/21 06:15	5	0.10	05/04/21 13:58	JMW	EPA 6020A
Manganese, Dissolved	54	ug/L		05/03/21 06:15	5	1.0	05/04/21 13:58	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	44	ug/L		05/06/21 13:42	5	10	05/07/21 16:17	JMW	EPA 6020A*
Magnesium	180	mg/L		05/06/21 13:42	5	0.10	05/07/21 16:17	JMW	EPA 6020A
Manganese	68	ug/L		05/06/21 13:42	5	1.0	05/07/21 16:17	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
cis-1,2-Dichloroethene	2.1	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 18:26	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-17
Name: FIELD BLANK 1
Matrix: Surface Water - Grab

Sampled: 04/27/21 10:40
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	< 17	mg/L		04/28/21 16:35	1	17	04/28/21 17:35	BCR	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		05/03/21 15:10	1	1.0	05/03/21 15:10	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/03/21 15:10	1	1.0	05/03/21 15:10	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	93	mg/L		04/30/21 08:07	1	17	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	< 10	ug/L		05/03/21 06:15	5	10	05/04/21 14:01	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		05/03/21 06:15	5	0.10	05/04/21 14:01	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/03/21 06:15	5	1.0	05/04/21 14:01	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	24	ug/L		05/06/21 13:42	5	10	05/07/21 16:21	JMW	EPA 6020A*
Magnesium	0.21	mg/L		05/06/21 13:42	5	0.10	05/07/21 16:21	JMW	EPA 6020A
Manganese	1.2	ug/L		05/06/21 13:42	5	1.0	05/07/21 16:21	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:40	1	1.0	04/28/21 19:21	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-18
Name: EQUIPMENT BLANK
Matrix: Surface Water - Grab

Sampled: 04/27/21 15:00
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L		04/28/21 16:35	1	17	04/28/21 17:35	BCR	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		05/03/21 15:28	1	1.0	05/03/21 15:28	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/03/21 15:28	1	1.0	05/03/21 15:28	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	80	mg/L		04/30/21 08:07	1	17	04/30/21 09:28	BCR	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		05/03/21 06:15	5	10	05/04/21 14:05	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		05/03/21 06:15	5	0.10	05/04/21 14:05	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/03/21 06:15	5	1.0	05/04/21 14:05	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		05/06/21 13:42	5	10	05/07/21 16:25	JMW	EPA 6020A*
Magnesium	0.26	mg/L		05/06/21 13:42	5	0.10	05/07/21 16:25	JMW	EPA 6020A
Manganese	< 1.0	ug/L		05/06/21 13:42	5	1.0	05/07/21 16:25	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:11	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: ED05100-19
Name: TRIP BLANK
Matrix: Surface Water - Grab

Sampled: 04/27/21 15:00
Received: 04/28/21 09:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	< 17	mg/L	M	05/04/21 13:06	1	17	05/04/21 13:17	BMA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		05/03/21 15:46	1	1.0	05/03/21 15:46	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/03/21 15:46	1	1.0	05/03/21 15:46	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	87	mg/L		04/30/21 08:07	1	17	04/30/21 09:28	BCR	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	< 10	ug/L		05/03/21 06:15	5	10	05/04/21 14:09	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		05/03/21 06:15	5	0.10	05/04/21 14:09	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/03/21 06:15	5	1.0	05/04/21 14:09	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	14	ug/L		05/06/21 13:42	5	10	05/07/21 16:28	JMW	EPA 6020A*
Magnesium	0.21	mg/L		05/06/21 13:42	5	0.10	05/07/21 16:28	JMW	EPA 6020A
Manganese	< 1.0	ug/L		05/06/21 13:42	5	1.0	05/07/21 16:28	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/28/21 09:54	1	1.0	04/28/21 18:39	MTM	EPA 8260B



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Gail Schindler, Project Manager





REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT US ECOLOGY		PROJECT NUMBER		PROJECT LOCATION Sheffield		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # EDDS100-19 LOGGED BY: DCW CLIENT: US ECOLOGY - SHEFFIELD PROJECT: USE LTSP PROJ. MGR.: GAIL SCHINDLER		
ADDRESS PO BOX 206		PHONE NUMBER 815-454-2342		E-MAIL		DATE SHIPPED		CL*, SO4*, TDS*, TS FE**, MG**, MN** VOA				
CITY STATE ZIP SHEFFIELD IL 61361		SAMPLER (PLEASE PRINT) Shawn Long		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHL- LEACHATE OIL- OIL SO- SOIL SOL- SOLID								
CONTACT PERSON DOUG LONG		SAMPLER'S SIGNATURE Shawn Long										
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED			REMARKS	
G160		4-27-21	0930	X		GW	7	1,3,6	X	X	X	*DISSOLVED
G162		4-27-21	0920	X		GW	7	1,3,6	X	X	X	** TOTAL & DISSOLVED
G165		4-27-21	0901	X		GW	7	1,3,6	X	X	X	
G166		4-27-21	0910	X		GW	7	1,3,6	X	X	X	
G168		4-27-21	0848	X		GW	7	1,3,6	X	X	X	
G211		4-27-21	1105	X		GW	7	1,3,6	X	X	X	
G547		4-27-21	0940	X		GW	7	1,3,6	X	X	X	
G564		4-27-21	1005	X		GW	7	1,3,6	X	X	X	
G570		4-27-21	1115	X		GW	7	1,3,6	X	X	X	
CHEMICAL PRESERVATION CODES:		1 - HCL	2 - H2SO4	3 - HNO3	4 - NAOH	5 - NA2S2O3	6 - UNPRESERVED	7 - OTHER				
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL RUSH RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)								
7 RELINQUISHED BY: (SIGNATURE) Shawn Long		DATE TIME 4-28-21 0815	RECEIVED BY: (SIGNATURE) Nathan Long		DATE TIME 4-28-21 0815	8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT 6.9 °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE						
RELINQUISHED BY: (SIGNATURE) Nathan Long		DATE TIME 4-28-21 0930	RECEIVED BY: (SIGNATURE) W. Merce		DATE TIME 4/28/21 09:30							
RELINQUISHED BY: (SIGNATURE)		DATE TIME	RECEIVED BY: (SIGNATURE)		DATE TIME							



PDC LABORATORIES, INC.
WWW.PDCCLAB.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT US ECOLOGY		PROJECT NUMBER		PROJECT LOCATION Sheffield		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # E1005100 LOGGED BY: DCW CLIENT: US ECOLOGY - SHEFFIELD PROJECT: USE LTSP PROJ. MGR.: GAIL SCHINDLER	
ADDRESS PO BOX 206		PHONE NUMBER 815-454-2342		E-MAIL		DATE SHIPPED		CL*, SO4*, TDS*, TS FE**, MG**, MN** VOA		REMARKS	
CITY STATE ZIP SHEFFIELD IL 61361		SAMPLER (PLEASE PRINT) Shawn Long		SAMPLER'S SIGNATURE Shawn Long		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHL- LEACHATE OIL- OIL SO- SOIL SOL- SOLID					
CONTACT PERSON DOUG LONG		SAMPLER'S SIGNATURE Nathan Long		MATRIX TYPE		BOTTLE COUNT					
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA
G575		4-27-21	1016	X		GW	7	1,3,6	X	X	X
G591		4-27-21	1033	X		GW	7	1,3,6	X	X	X
G592		4-27-21	1044	X		GW	7	1,3,6	X	X	X
G594		4-27-21	1025	X		GW	7	1,3,6	X	X	X
G600		4-27-21	1053	X		GW	7	1,3,6	X	X	X
S501		4-27-21	1240	X		SW	7	1,3,6	X	X	X
S502		4-27-21	1300	X		SW	7	1,3,6	X	X	X
FIELD BLANK 1		4-27-21	1040	X		DI	7	1,3,6	X	X	X
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER											
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL RUSH RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)							
7 RELINQUISHED BY: (SIGNATURE) Shawn Long		DATE 4-28-21 TIME 0815		RECEIVED BY: (SIGNATURE) Nathan Long		DATE 4-28-21 TIME 0815		8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT 6.9 °C CHILL PROCESS STARTED PRIOR TO RECEIPT X OR N SAMPLE(S) RECEIVED ON ICE X OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED X OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE			
RELINQUISHED BY: (SIGNATURE) Nathan Long		DATE 4-28-21 TIME 0930		RECEIVED BY: (SIGNATURE)		DATE 4/28/21 TIME 0930					
RELINQUISHED BY: (SIGNATURE)		DATE TIME		RECEIVED BY: (SIGNATURE) Uma		DATE TIME					



REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT US ECOLOGY		PROJECT NUMBER		PROJECT LOCATION Sheffield		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # EDOS100-19	
ADDRESS PO BOX 206		PHONE NUMBER 815-454-2342		E-MAIL		DATE SHIPPED		CL*, SO4*, TDS*, TS FE**, MG**, MN** VOA		LOGGED BY: DCW	
CITY SHEFFIELD IL 61361		SAMPLER (PLEASE PRINT) Shawn Long		SAMPLER'S SIGNATURE Shawn Long		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHT- LEACHATE OIL- OIL SO- SOIL SOL- SOLID				CLIENT: US ECOLOGY - SHEFFIELD	
CONTACT PERSON DOUG LONG		SAMPLER'S SIGNATURE Nathan Long		MATRIX TYPE		BOTTLE COUNT				PROJECT: USE LTSP	
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED		TIME COLLECTED		SAMPLE TYPE GRAB COMP		PRES CODE CLIENT PROVIDED		REMARKS	
EQUIPMENT BLANK		4-27-21		1500		X		1,3,6		*DISSOLVED	
TRIP BLANK		4-27-21		1500		X		1,3,6		** TOTAL & DISSOLVED	
CHEMICAL PRESERVATION CODES:		1 - HCL		2 - H2SO4		3 - HNO3		4 - NaOH		5 - NA2S2O3	
		6 - UNPRESERVED		7 - OTHER							
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)		NORMAL		RUSH		DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.		PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)	
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE		EMAIL IF DIFFERENT FROM ABOVE:		PHONE # IF DIFFERENT FROM ABOVE:							
7 RELINQUISHED BY: (SIGNATURE) Shawn Long		DATE 4-28-21		TIME 0815		RECEIVED BY: (SIGNATURE) Nathan Long		DATE 4-28-21		TIME 0815	
RELINQUISHED BY: (SIGNATURE) Nathan Long		DATE 4-28-21		TIME 0930		RECEIVED BY: (SIGNATURE)		DATE		TIME	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE) YMC		DATE 4/28/21		TIME 0930	
										8 COMMENTS: (FOR LAB USE ONLY)	
										SAMPLE TEMPERATURE UPON RECEIPT 6.9 °C	
										CHILL PROCESS STARTED PRIOR TO RECEIPT YOR N	
										SAMPLE(S) RECEIVED ON ICE YOR N	
										SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED YOR N	
										DATE AND TIME TAKEN FROM SAMPLE BOTTLE	



November 03, 2021

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the analytical results for the **19** sample(s) the laboratory received on **10/13/21 9:41 am** and logged in under work order **EJ02403**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gschindler@pdclab.com



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order EJ02403

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EJ02403-01
Name: G160
Matrix: Ground Water - Grab

Sampled: 10/12/21 09:25
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3000	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.6	mg/L		10/18/21 18:29	1	1.0	10/18/21 18:29	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1900	mg/L		10/18/21 18:47	250	250	10/18/21 18:47	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3400	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	2800	ug/L		10/25/21 05:21	5	10	10/26/21 10:02	JMW	EPA 6020A*
Magnesium, Dissolved	310	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:02	JMW	EPA 6020A
Manganese, Dissolved	2200	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:02	JMW	EPA 6020A
Total Metals - PIA									
Iron	2600	ug/L		10/19/21 11:19	5	10	10/21/21 12:42	JMW	EPA 6020A*
Magnesium	290	mg/L		10/19/21 11:19	5	0.10	10/21/21 12:42	JMW	EPA 6020A
Manganese	2100	ug/L		10/19/21 11:19	5	1.0	10/21/21 12:42	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 11:36	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-02
Name: G162
Matrix: Ground Water - Grab

Sampled: 10/12/21 09:16
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	3300	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.1	mg/L		10/18/21 19:05	1	1.0	10/18/21 19:05	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	2100	mg/L		10/18/21 19:24	250	250	10/18/21 19:24	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3500	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	60000	ug/L		10/25/21 05:21	5	10	10/26/21 10:06	JMW	EPA 6020A*
Magnesium, Dissolved	320	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:06	JMW	EPA 6020A
Manganese, Dissolved	3100	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:06	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	63000	ug/L		10/19/21 11:19	5	10	10/21/21 12:46	JMW	EPA 6020A*
Magnesium	300	mg/L		10/19/21 11:19	5	0.10	10/21/21 12:46	JMW	EPA 6020A
Manganese	2900	ug/L		10/19/21 11:19	5	1.0	10/21/21 12:46	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 12:58	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-03
Name: G165
Matrix: Ground Water - Grab

Sampled: 10/12/21 08:50
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	820	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.6	mg/L		10/18/21 20:18	1	1.0	10/18/21 20:18	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	350	mg/L		10/18/21 20:36	50	50	10/18/21 20:36	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	880	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	100	ug/L		10/25/21 05:21	5	10	10/26/21 10:09	JMW	EPA 6020A*
Magnesium, Dissolved	73	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:09	JMW	EPA 6020A
Manganese, Dissolved	13	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:09	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	100	ug/L		10/19/21 11:19	5	10	10/21/21 12:49	JMW	EPA 6020A*
Magnesium	66	mg/L		10/19/21 11:19	5	0.10	10/21/21 12:49	JMW	EPA 6020A
Manganese	11	ug/L		10/19/21 11:19	5	1.0	10/21/21 12:49	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:25	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-04
Name: G166
Matrix: Ground Water - Grab

Sampled: 10/12/21 09:04
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	480	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.0	mg/L		10/18/21 20:54	1	1.0	10/18/21 20:54	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1.3	mg/L		10/18/21 20:54	1	1.0	10/18/21 20:54	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	520	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	29	ug/L		10/25/21 05:21	5	10	10/26/21 10:13	JMW	EPA 6020A*
Magnesium, Dissolved	1.6	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:13	JMW	EPA 6020A
Manganese, Dissolved	22	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:13	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	34	ug/L		10/19/21 11:19	5	10	10/21/21 12:53	JMW	EPA 6020A*
Magnesium	1.6	mg/L		10/19/21 11:19	5	0.10	10/21/21 12:53	JMW	EPA 6020A
Manganese	21	ug/L		10/19/21 11:19	5	1.0	10/21/21 12:53	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 13:53	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-05
Name: G168
Matrix: Ground Water - Grab

Sampled: 10/12/21 09:35
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1100	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.0	mg/L		10/18/21 21:48	1	1.0	10/18/21 21:48	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	330	mg/L		10/18/21 22:06	50	50	10/18/21 22:06	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1100	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	< 10	ug/L		10/25/21 05:21	5	10	10/26/21 10:17	JMW	EPA 6020A*
Magnesium, Dissolved	110	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:17	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:17	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	20	ug/L		10/19/21 11:19	5	10	10/21/21 12:57	JMW	EPA 6020A*
Magnesium	100	mg/L		10/19/21 11:19	5	0.10	10/21/21 12:57	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/19/21 11:19	5	1.0	10/21/21 12:57	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
Chloroform	3.1	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
Tetrachloroethene	110	ug/L		10/20/21 09:17	10	10	10/20/21 17:02	MTM	EPA 8260B
Trichloroethene	5.6	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:20	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-06
Name: G211
Matrix: Ground Water - Grab

Sampled: 10/12/21 11:30
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	340	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	2.9	mg/L		10/18/21 22:24	1	1.0	10/18/21 22:24	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	2.0	mg/L		10/18/21 22:24	1	1.0	10/18/21 22:24	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	420	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	4600	ug/L		10/25/21 05:21	5	10	10/26/21 10:20	JMW	EPA 6020A*
Magnesium, Dissolved	41	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:20	JMW	EPA 6020A
Manganese, Dissolved	400	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:20	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	4500	ug/L		10/19/21 11:19	5	10	10/21/21 13:20	JMW	EPA 6020A*
Magnesium	39	mg/L		10/19/21 11:19	5	0.10	10/21/21 13:20	JMW	EPA 6020A
Manganese	390	ug/L		10/19/21 11:19	5	1.0	10/21/21 13:20	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 14:47	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-07
Name: G547
Matrix: Ground Water - Grab

Sampled: 10/12/21 09:50
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	370	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	18	mg/L		10/25/21 20:06	10	10	10/25/21 20:06	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	5.7	mg/L		10/18/21 22:42	1	1.0	10/18/21 22:42	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	130	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	15000	ug/L		10/25/21 05:21	5	10	10/26/21 10:39	JMW	EPA 6020A*
Magnesium, Dissolved	12	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:39	JMW	EPA 6020A
Manganese, Dissolved	160	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:39	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	4000	ug/L		10/19/21 11:19	5	10	10/21/21 13:24	JMW	EPA 6020A*
Magnesium	4.4	mg/L		10/19/21 11:19	5	0.10	10/21/21 13:24	JMW	EPA 6020A
Manganese	42	ug/L		10/19/21 11:19	5	1.0	10/21/21 13:24	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	4.1	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
1,1-Dichloroethene	1.5	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
1,2-Dichloroethane	8.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
Benzene	230	ug/L		10/20/21 09:17	10	10	10/20/21 17:30	MTM	EPA 8260B
cis-1,2-Dichloroethene	170	ug/L		10/20/21 09:17	10	10	10/20/21 17:30	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
trans-1,2-Dichloroethene	18	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
Methylene chloride	14	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B
Tetrachloroethene	120	ug/L		10/20/21 09:17	10	10	10/20/21 17:30	MTM	EPA 8260B
Trichloroethene	350	ug/L		10/20/21 09:17	10	10	10/20/21 17:30	MTM	EPA 8260B
Vinyl chloride	38	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:14	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-08
Name: G564
Matrix: Ground Water - Grab

Sampled: 10/12/21 10:15
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1300	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	9.5	mg/L		10/18/21 23:01	5	5.0	10/18/21 23:01	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	440	mg/L		10/18/21 23:56	50	50	10/18/21 23:56	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1400	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	8300	ug/L		10/25/21 05:21	5	10	10/26/21 10:42	JMW	EPA 6020A*
Magnesium, Dissolved	130	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:42	JMW	EPA 6020A
Manganese, Dissolved	230	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:42	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	7700	ug/L		10/19/21 11:19	5	10	10/21/21 13:27	JMW	EPA 6020A*
Magnesium	120	mg/L		10/19/21 11:19	5	0.10	10/21/21 13:27	JMW	EPA 6020A
Manganese	250	ug/L		10/19/21 11:19	5	1.0	10/21/21 13:27	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	1.4	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
1,1-Dichloroethene	5.8	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
1,2-Dichloroethane	1.8	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
1,2-Dichloropropane	1.4	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
Benzene	11	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
cis-1,2-Dichloroethene	1900	ug/L		10/20/21 09:17	100	100	10/20/21 18:26	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
trans-1,2-Dichloroethene	14	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
Tetrachloroethene	6.2	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
Trichloroethene	3.4	ug/L		10/14/21 09:10	1	1.0	10/14/21 15:42	MTM	EPA 8260B
Vinyl chloride	100	ug/L		10/20/21 09:17	10	10	10/20/21 17:58	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-09
Name: G570
Matrix: Ground Water - Grab

Sampled: 10/12/21 11:40
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1800	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	3.7	mg/L		10/19/21 00:14	1	1.0	10/19/21 00:14	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	790	mg/L		10/19/21 00:33	100	100	10/19/21 00:33	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2000	mg/L	M	10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	14000	ug/L		10/25/21 05:21	5	10	10/26/21 10:46	JMW	EPA 6020A*
Magnesium, Dissolved	190	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:46	JMW	EPA 6020A
Manganese, Dissolved	400	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:46	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	11000	ug/L		10/19/21 11:19	5	10	10/21/21 13:31	JMW	EPA 6020A*
Magnesium	190	mg/L		10/19/21 11:19	5	0.10	10/21/21 13:31	JMW	EPA 6020A
Manganese	290	ug/L		10/19/21 11:19	5	1.0	10/21/21 13:31	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
cis-1,2-Dichloroethene	3.5	ug/L		10/20/21 09:17	1	1.0	10/20/21 18:55	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:09	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-10
Name: G575
Matrix: Ground Water - Grab

Sampled: 10/12/21 10:30
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	470	mg/L	M	10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.2	mg/L		10/19/21 00:52	1	1.0	10/19/21 00:52	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	48	mg/L		10/19/21 01:11	10	10	10/19/21 01:11	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	540	mg/L	M	10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	6600	ug/L		10/25/21 05:21	5	10	10/26/21 10:50	JMW	EPA 6020A*
Magnesium, Dissolved	62	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:50	JMW	EPA 6020A
Manganese, Dissolved	36	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:50	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	6500	ug/L		10/19/21 11:19	5	10	10/21/21 13:35	JMW	EPA 6020A*
Magnesium	60	mg/L		10/19/21 11:19	5	0.10	10/21/21 13:35	JMW	EPA 6020A
Manganese	33	ug/L		10/19/21 11:19	5	1.0	10/21/21 13:35	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	35	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
cis-1,2-Dichloroethene	2.9	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Chloroform	1.5	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Tetrachloroethene	6.1	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 16:36	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-11
Name: G591
Matrix: Ground Water - Grab

Sampled: 10/12/21 10:50
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	490	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	30	mg/L		10/19/21 09:40	10	10	10/19/21 09:40	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	41	mg/L		10/19/21 09:40	10	10	10/19/21 09:40	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	540	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	10000	ug/L		10/25/21 05:21	5	10	10/26/21 10:53	JMW	EPA 6020A*
Magnesium, Dissolved	69	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:53	JMW	EPA 6020A
Manganese, Dissolved	880	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:53	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	9600	ug/L		10/20/21 08:17	5	10	10/22/21 08:34	JMW	EPA 6020A*
Magnesium	62	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:34	JMW	EPA 6020A
Manganese	790	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:34	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	23	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
1,2-Dichloroethane	6.3	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
1,2-Dichloropropane	4.2	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Benzene	210	ug/L		10/20/21 09:17	10	10	10/20/21 19:23	MTM	EPA 8260B
cis-1,2-Dichloroethene	84	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Trichloroethene	3.2	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B
Vinyl chloride	95	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:04	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-12
Name: G592
Matrix: Ground Water - Grab

Sampled: 10/12/21 11:03
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	530	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	6.6	mg/L		10/20/21 19:00	1	1.0	10/20/21 19:00	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	59	mg/L		10/19/21 09:58	10	10	10/19/21 09:58	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	630	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	180	ug/L		10/25/21 05:21	5	10	10/26/21 10:57	JMW	EPA 6020A*
Magnesium, Dissolved	69	mg/L		10/25/21 05:21	5	0.10	10/26/21 10:57	JMW	EPA 6020A
Manganese, Dissolved	11	ug/L		10/25/21 05:21	5	1.0	10/26/21 10:57	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	250	ug/L		10/20/21 08:17	5	10	10/22/21 08:38	JMW	EPA 6020A*
Magnesium	67	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:38	JMW	EPA 6020A
Manganese	12	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:38	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	52	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
cis-1,2-Dichloroethene	4.3	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Chloroform	1.6	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Tetrachloroethene	24	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Trichloroethene	4.5	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:31	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-13
Name: G594
Matrix: Ground Water - Grab

Sampled: 10/12/21 10:40
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	300	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	21	mg/L		10/19/21 10:16	10	10	10/19/21 10:16	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	25	mg/L		10/19/21 10:16	10	10	10/19/21 10:16	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	500	mg/L		10/14/21 08:21	1	26	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	1800	ug/L		10/25/21 05:21	5	10	10/26/21 11:01	JMW	EPA 6020A*
Magnesium, Dissolved	51	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:01	JMW	EPA 6020A
Manganese, Dissolved	31	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:01	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	2300	ug/L		10/20/21 08:17	5	10	10/22/21 08:42	JMW	EPA 6020A*
Magnesium	48	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:42	JMW	EPA 6020A
Manganese	24	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:42	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	2.5	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
1,2-Dichloroethane	1.3	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
1,2-Dichloropropane	1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
cis-1,2-Dichloroethene	75	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Tetrachloroethene	2.4	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Trichloroethene	4.7	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 17:58	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-14
Name: G600
Matrix: Ground Water - Grab

Sampled: 10/12/21 11:15
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	830	mg/L		10/14/21 10:17	1	51	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	5.8	mg/L		10/19/21 10:35	1	1.0	10/19/21 10:35	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	70	mg/L		10/19/21 10:53	10	10	10/19/21 10:53	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	540	mg/L		10/14/21 08:21	1	51	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	28000	ug/L		10/25/21 05:21	5	10	10/26/21 11:04	JMW	EPA 6020A*
Magnesium, Dissolved	66	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:04	JMW	EPA 6020A
Manganese, Dissolved	1200	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:04	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	110000	ug/L		10/20/21 08:17	5	10	10/22/21 08:45	JMW	EPA 6020A*
Magnesium	59	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:45	JMW	EPA 6020A
Manganese	1300	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:45	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	20	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
1,2-Dichloroethane	1.2	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
cis-1,2-Dichloroethene	240	ug/L		10/20/21 09:17	10	10	10/20/21 19:51	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
trans-1,2-Dichloroethene	3.4	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
Tetrachloroethene	22	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B
Trichloroethene	93	ug/L		10/20/21 09:17	10	10	10/20/21 19:51	MTM	EPA 8260B
Vinyl chloride	45	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:25	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-15
Name: S501
Matrix: Surface Water - Grab

Sampled: 10/12/21 13:25
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1600	mg/L		10/14/21 10:17	1	34	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	5.1	mg/L		10/20/21 19:54	1	1.0	10/20/21 19:54	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	980	mg/L		10/19/21 11:29	250	250	10/19/21 11:29	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1700	mg/L		10/14/21 08:21	1	34	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	23	ug/L		10/25/21 05:21	5	10	10/26/21 11:08	JMW	EPA 6020A*
Magnesium, Dissolved	200	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:08	JMW	EPA 6020A
Manganese, Dissolved	72	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:08	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	210	ug/L		10/20/21 08:17	5	10	10/22/21 08:49	JMW	EPA 6020A*
Magnesium	180	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:49	JMW	EPA 6020A
Manganese	70	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:49	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 18:52	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-16
Name: S502
Matrix: Surface Water - Grab

Sampled: 10/12/21 13:10
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	1700	mg/L		10/14/21 10:17	1	34	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	5.0	mg/L		10/20/21 20:12	1	1.0	10/20/21 20:12	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1000	mg/L		10/19/21 12:05	250	250	10/19/21 12:05	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1600	mg/L		10/14/21 08:21	1	34	10/14/21 09:45	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	26	ug/L		10/25/21 05:21	5	10	10/26/21 11:12	JMW	EPA 6020A*
Magnesium, Dissolved	200	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:12	JMW	EPA 6020A
Manganese, Dissolved	73	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:12	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	36	ug/L		10/20/21 08:17	5	10	10/22/21 08:53	JMW	EPA 6020A*
Magnesium	180	mg/L		10/20/21 08:17	5	0.10	10/22/21 08:53	JMW	EPA 6020A
Manganese	69	ug/L		10/20/21 08:17	5	1.0	10/22/21 08:53	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:20	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-17
Name: FIELD BLANK 1
Matrix: Surface Water - Grab

Sampled: 10/12/21 11:00
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	< 17	mg/L		10/14/21 10:17	1	17	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		10/19/21 12:24	1	1.0	10/19/21 12:24	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/19/21 12:24	1	1.0	10/19/21 12:24	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	< 17	mg/L		10/15/21 10:30	1	17	10/15/21 11:48	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	25	ug/L		10/25/21 05:21	5	10	10/26/21 11:31	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:31	JMW	EPA 6020A
Manganese, Dissolved	2.9	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:31	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	< 10	ug/L		10/20/21 08:17	5	10	10/22/21 09:12	JMW	EPA 6020A*
Magnesium	< 0.10	mg/L		10/20/21 08:17	5	0.10	10/22/21 09:12	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/20/21 08:17	5	1.0	10/22/21 09:12	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:10	1	1.0	10/14/21 19:47	MTM	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-18
Name: EQUIPMENT BLANK
Matrix: Surface Water - Grab

Sampled: 10/12/21 14:00
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	< 17	mg/L		10/14/21 10:17	1	17	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		10/19/21 13:18	1	1.0	10/19/21 13:18	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/19/21 13:18	1	1.0	10/19/21 13:18	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	< 17	mg/L		10/15/21 10:30	1	17	10/15/21 11:48	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	11	ug/L		10/25/21 05:21	5	10	10/26/21 11:35	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:35	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:35	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	< 10	ug/L		10/20/21 08:17	5	10	10/22/21 09:15	JMW	EPA 6020A*
Magnesium	< 0.10	mg/L		10/20/21 08:17	5	0.10	10/22/21 09:15	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/20/21 08:17	5	1.0	10/22/21 09:15	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:01	SEB	EPA 8260B



ANALYTICAL RESULTS

Sample: EJ02403-19
Name: TRIP BLANK
Matrix: Surface Water - Grab

Sampled: 10/12/21 15:00
Received: 10/13/21 09:41

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>General Chemistry - PIA</u>									
Solids - total solids (TS)	60	mg/L		10/14/21 10:17	1	17	10/14/21 11:06	JAA	SM 2540B 1991
<u>Soluble Anions - PIA</u>									
Chloride, Dissolved	< 1.0	mg/L		10/19/21 13:36	1	1.0	10/19/21 13:36	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/19/21 13:36	1	1.0	10/19/21 13:36	CRD	EPA 300.0 REV 2.1
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	< 17	mg/L		10/15/21 10:30	1	17	10/15/21 11:48	JAA	SM 2540C
<u>Soluble Metals - PIA</u>									
Iron, Dissolved	< 10	ug/L		10/25/21 05:21	5	10	10/26/21 11:38	JMW	EPA 6020A*
Magnesium, Dissolved	< 0.10	mg/L		10/25/21 05:21	5	0.10	10/26/21 11:38	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/25/21 05:21	5	1.0	10/26/21 11:38	JMW	EPA 6020A
<u>Total Metals - PIA</u>									
Iron	< 10	ug/L		10/20/21 13:24	5	10	10/28/21 11:51	JMW	EPA 6020A*
Magnesium	< 0.10	mg/L		10/20/21 13:24	5	0.10	10/28/21 11:51	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/20/21 13:24	5	1.0	10/28/21 11:51	JMW	EPA 6020A
<u>Volatile Organics - PIA</u>									
1,1-Dichloroethane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/14/21 09:00	1	1.0	10/14/21 16:29	SEB	EPA 8260B



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

M Analyte failed to meet the required acceptance criteria for duplicate analysis.

Certified by: Gail Schindler, Project Manager





REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT US ECOLOGY		PROJECT NUMBER		PROJECT LOCATION		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # EJ02403-19 LOGGED BY: DCW CLIENT: US ECOLOGY - SHEFFIELD PROJECT: USE LTSP PROJ. MGR.: GAIL SCHINDLER					
ADDRESS PO BOX 206		PHONE NUMBER 815-454-2342		E-MAIL		DATE SHIPPED		CL*, SO4*, TDS*, TS FE**, MG**, MN** VOA							
CITY STATE ZIP SHEFFIELD IL 61361		SAMPLER (PLEASE PRINT) Shawn Long		SAMPLER'S SIGNATURE Shawn Long		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHL- LEACHATE OIL- OIL SO- SOIL SOL- SOLID									
CONTACT PERSON DOUG LONG		DATE COLLECTED		TIME COLLECTED		SAMPLE TYPE GRAB COMP		MATRIX TYPE		BOTTLE COUNT		PRES CODE CLIENT PROVIDED		REMARKS	
G160		10-12-21		0925		X		GW		7		1,3,6		*DISSOLVED	
G162		10-12-21		0916		X		GW		7		1,3,6		** TOTAL & DISSOLVED	
G165		10-12-21		0850		X		GW		7		1,3,6			
G166		10-12-21		0904		X		GW		7		1,3,6			
G168		10-12-21		0935		X		GW		7		1,3,6			
G211		10-12-21		1130		X		GW		7		1,3,6			
G547		10-12-21		0950		X		GW		7		1,3,6			
G564		10-12-21		1015		X		GW		7		1,3,6			
G570		10-12-21		1140		X		GW		7		1,3,6			
CHEMICAL PRESERVATION CODES:		1 - HCL		2 - H2SO4		3 - HNO3		4 - NAOH		5 - NA2S2O3		6 - UNPRESERVED		7 - OTHER	
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)											
7 RELINQUISHED BY: (SIGNATURE) Shawn Long		DATE 10-12-21 TIME 1505		RECEIVED BY: (SIGNATURE) Nathan Long		DATE 10-13-21 TIME 0830		8 COMMENTS: (FOR LAB USE ONLY)							
RELINQUISHED BY: (SIGNATURE) Nathan Long		DATE 10-13-21 TIME 0941		RECEIVED BY: (SIGNATURE) DCW		DATE 10/13/21 TIME 941		SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED DATE AND TIME TAKEN FROM SAMPLE BOTTLE		7.6 °C YDR N YDR N YDR N					
RELINQUISHED BY: (SIGNATURE)		DATE TIME		RECEIVED BY: (SIGNATURE)		DATE TIME									



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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT US ECOLOGY		PROJECT NUMBER		PROJECT LOCATION		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # EJ02403-19 LOGGED BY: DCW CLIENT: US ECOLOGY - SHEFFIELD PROJECT: USE LTSP PROJ. MGR.: GAIL SCHINDLER	
ADDRESS PO BOX 206		PHONE NUMBER 815-454-2342		E-MAIL		DATE SHIPPED					
CITY STATE ZIP SHEFFIELD IL 61361		SAMPLER (PLEASE PRINT) Shawn Long		SAMPLER'S SIGNATURE Shawn Long		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHL- LEACHATE OIL- OIL SO- SOIL SOL- SOLID		CL*, SO4*, TDS*, TS FE**, MG**, MN** VOA			
CONTACT PERSON DOUG LONG											
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED			REMARKS
G575		10-12-21	1030	X		GW	7	1,3,6	X	X	*DISSOLVED
G591		10-12-21	1050	X		GW	7	1,3,6	X	X	** TOTAL & DISSOLVED
G592		10-12-21	1103	X		GW	7	1,3,6	X	X	
G594		10-12-21	1040	X		GW	7	1,3,6	X	X	
G600		10-12-21	1115	X		GW	7	1,3,6	X	X	
S501		10-12-21	1325	X		SW	7	1,3,6	X	X	
S502		10-12-21	1310	X		SW	7	1,3,6	X	X	
FIELD BLANK 1		10-12-21	1100	X		DI	7	1,3,6	X	X	
FIELD BLANK 2		10-12-21		X		DI	7	1,3,6	X	X	
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER											
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:				DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)					
7 RELINQUISHED BY: (SIGNATURE) Shawn Long		DATE TIME 10-12-21 1505		RECEIVED BY: (SIGNATURE) Nathan Long		DATE TIME 10-13-21 0830		8 COMMENTS: (FOR LAB USE ONLY)			
RELINQUISHED BY: (SIGNATURE) Nathan Long		DATE TIME 10-13-21 0941		RECEIVED BY: (SIGNATURE) DCW		DATE TIME 10-13-21 0941		SAMPLE TEMPERATURE UPON RECEIPT 7.6 °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE			
RELINQUISHED BY: (SIGNATURE)		DATE TIME		RECEIVED BY: (SIGNATURE)		DATE TIME					

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]



June 24, 2021

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the **revised** analytical results for the **2** sample(s) the laboratory received on **6/4/21 10:30 am** and logged in under work order **EF01100**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gschindler@pdclab.com



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order EF01100

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EF01100-01
Name: S502
Matrix: Surface Water - Grab

Sampled: 06/04/21 08:50
Received: 06/04/21 10:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Volatile Organics - PIA

cis-1,2-Dichloroethene	2.8	ug/L		06/09/21 08:50	1	1.0	06/09/21 16:09	SEB	EPA 8260B
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Sample: EF01100-02
Name: TRIP BLANK
Matrix: Surface Water - Grab

Sampled: 06/04/21 09:05
Received: 06/04/21 10:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Volatile Organics - PIA

cis-1,2-Dichloroethene	< 1.0	ug/L		06/09/21 08:50	1	1.0	06/09/21 16:36	SEB	EPA 8260B
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NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Memos

Revised Report - corrected compound to report

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Certified by: Gail Schindler, Project Manager





CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

None

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

APPENDIX A.2

Fall 2021 Data Summary

Environmental VOC Monitoring Data

Boundary Well G160

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	41.06	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	41.06	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	41.06	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	41.06	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	41.06	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	41.06	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	41.06	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	41.06	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	41.06	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	41.06	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	41.06	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	41.06	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Boundary Well G162

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	29.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	29.30	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	29.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	29.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	29.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	29.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	29.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	29.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	29.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	29.30	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	29.30	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	29.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G591

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	41.86	Benzene	140 ppb	360 ppb	160 ppb
04/27/2021	41.86	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	41.86	1,1 Dichloroethane	14 ppb	14 ppb	410 ppb
04/27/2021	41.86	1,1 Dichloroethene	5.2 ppb	1.6 ppb	130 ppb
04/27/2021	41.86	1,2,-Dichloroethane	6.8 ppb	8.8 ppb	2000 ppb
04/27/2021	41.86	cis-1,2-Dichloroethene	940 ppb	380 ppb	620 ppb
04/27/2021	41.86	trans-1,2-Dichloroethene	7.8 ppb	1.5 ppb	558 ppb
04/27/2021	41.86	1,2-Dichloropropane	2.4 ppb	2.7 ppb	520 ppb
04/27/2021	41.86	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	41.86	Tetrachloroethene	1.3 ppb	Non-Detect	53 ppb
04/27/2021	41.86	Trichloroethene	22 ppb	3.1 ppb	220 ppb
04/27/2021	41.86	Vinyl Chloride	260 ppb	310 ppb	930 ppb

Guard Well G592

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	35.66	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	35.66	Chloroform	2.2 ppb	2.1 ppb	140 ppb
04/27/2021	35.66	1,1 Dichloroethane	65 ppb	53 ppb	410 ppb
04/27/2021	35.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	35.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	35.66	cis-1,2-Dichloroethene	5.4 ppb	3.0 ppb	620 ppb
04/27/2021	35.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	35.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	35.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	35.66	Tetrachloroethene	36 ppb	23 ppb	53 ppb
04/27/2021	35.66	Trichloroethene	5.4 ppb	3.0 ppb	220 ppb
04/27/2021	35.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G600

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	22.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	22.30	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	22.30	1,1 Dichloroethane	18 ppb	8.5 ppb	410 ppb
04/27/2021	22.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	22.30	1,2,-Dichloroethane	Non-Detect	1.6 ppb	2000 ppb
04/27/2021	22.30	cis-1,2-Dichloroethene	45 ppb	310 ppb	620 ppb
04/27/2021	22.30	trans-1,2-Dichloroethene	1.3 ppb	3.2 ppb	558 ppb
04/27/2021	22.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	22.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	22.30	Tetrachloroethene	Non-Detect	150 ppb	53 ppb
04/27/2021	22.30	Trichloroethene	21 ppb	170 ppb	220 ppb
04/27/2021	22.30	Vinyl Chloride	9.2 ppb	20 ppb	930 ppb

Plume Well G165

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	44.66	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	44.66	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	44.66	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	44.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	44.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	44.66	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	44.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	44.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	44.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	44.66	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	44.66	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	44.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G166

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	71.41	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	71.41	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	71.41	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	71.41	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	71.41	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	71.41	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	71.41	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	71.41	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	71.41	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	71.41	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	71.41	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	71.41	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G168

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	50.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	50.30	Chloroform	4.9 ppb	1.8 ppb	140 ppb
04/27/2021	50.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	50.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	50.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	50.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	50.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	50.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	50.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	50.30	Tetrachloroethene	110 ppb	98 ppb	53 ppb
04/27/2021	50.30	Trichloroethene	6.9 ppb	3.8 ppb	220 ppb
04/27/2021	50.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G547

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	44.21	Benzene	20 ppb	42 ppb	160 ppb
04/27/2021	44.21	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	44.21	1,1 Dichloroethane	1.1 ppb	1.4 ppb	410 ppb
04/27/2021	44.21	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	44.21	1,2,-Dichloroethane	3.1 ppb	2.8 ppb	2000 ppb
04/27/2021	44.21	cis-1,2-Dichloroethene	29 ppb	35 ppb	620 ppb
04/27/2021	44.21	trans-1,2-Dichloroethene	4.7 ppb	5.1 ppb	558 ppb
04/27/2021	44.21	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	44.21	Methylene Chloride	3.5 ppb	4.6 ppb	1500 ppb
04/27/2021	44.21	Tetrachloroethene	53 ppb	47 ppb	53 ppb
04/27/2021	44.21	Trichloroethene	93ppb	97 ppb	220 ppb
04/27/2021	44.21	Vinyl Chloride	4.9 ppb	7.8 ppb	930 ppb

Plume Well G564

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	45.93	Benzene	5.0 ppb	8.0 ppb	160 ppb
04/27/2021	45.93	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	45.93	1,1 Dichloroethane	1.7 ppb	1.3 ppb	410 ppb
04/27/2021	45.93	1,1 Dichloroethene	2.4 ppb	1.4 ppb	130 ppb
04/27/2021	45.93	1,2,-Dichloroethane	2.4 ppb	1.8 ppb	2000 ppb
04/27/2021	45.93	cis-1,2-Dichloroethene	530 ppb	380 ppb	620 ppb
04/27/2021	45.93	trans-1,2-Dichloroethene	9.6 ppb	6.6 ppb	558 ppb
04/27/2021	45.93	1,2-Dichloropropane	1.2 ppb	Non-Detect	520 ppb
04/27/2021	45.93	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	45.93	Tetrachloroethene	1.1 ppb	Non-Detect	53 ppb
04/27/2021	45.93	Trichloroethene	2.5 ppb	Non-Detect	220 ppb
04/27/2021	45.93	Vinyl Chloride	87 ppb	110 ppb	930 ppb

Plume Well G575

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	46.52	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	46.52	Chloroform	1.6 ppb	1.9 ppb	140 ppb
04/27/2021	46.52	1,1 Dichloroethane	34 ppb	43 ppb	410 ppb
04/27/2021	46.52	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	46.52	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	46.52	cis-1,2-Dichloroethene	1.6 ppb	1.4 ppb	620 ppb
04/27/2021	46.52	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	46.52	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	46.52	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
0427/2021	46.52	Tetrachloroethene	9.7 ppb	7.6 ppb	53 ppb
04/27/2021	46.52	Trichloroethene	1.7 ppb	1.7 ppb	220 ppb
04/27/2021	46.52	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G594

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	41.71	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	41.71	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	41.71	1,1 Dichloroethane	Non-Detect	1.3 ppb	410 ppb
04/27/2021	41.71	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	41.71	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	41.71	cis-1,2-Dichloroethene	5.3 ppb	25 ppb	620 ppb
04/27/2021	41.71	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	41.71	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	41.71	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	41.71	Tetrachloroethene	4.9 ppb	2.2 ppb	53 ppb
04/27/2021	41.71	Trichloroethene	2.9 ppb	2.4 ppb	220 ppb
04/27/2021	41.71	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G211

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Fall 2021	USEPA Region 4
04/27/2021	42.60	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	42.60	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	42.60	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	42.60	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	42.60	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	42.60	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	42.60	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	42.60	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	42.60	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	42.60	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	42.60	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	42.60	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G570

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	17.00	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	17.00	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	17.00	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	17.00	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	17.00	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	17.00	cis-1,2-Dichloroethene	8.1 ppb	4.4 ppb	620 ppb
04/27/2021	17.00	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	17.00	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	17.00	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	17.00	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	17.00	Trichloroethene	2.5 ppb	1.7 ppb	220 ppb
04/27/2021	17.00	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S501

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Spring 2021	USEPA Region 4
04/27/2021	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
04/27/2021	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
04/27/2021	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/27/2021	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/27/2021	N/A	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/27/2021	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/27/2021	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/27/2021	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/27/2021	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/27/2021	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/27/2021	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S502

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	N/A	cis-1,2-Dichloroethene	2.1 ppb	Non-Detect	620 ppb
10/12/2021	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Environmental VOC Monitoring Data

Boundary Well G160

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	41.06	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	41.06	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	41.06	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	41.06	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	41.06	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	41.06	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	41.06	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	41.06	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	41.06	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	41.06	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	41.06	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	41.06	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Boundary Well G162

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	29.30	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	29.30	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	29.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	29.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	29.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	29.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	29.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	29.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	29.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	29.30	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	29.30	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	29.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G591

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	41.86	Benzene	360 ppb	210 ppb	160 ppb
10/12/2021	41.86	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	41.86	1,1 Dichloroethane	14 ppb	23 ppb	410 ppb
10/12/2021	41.86	1,1 Dichloroethene	1.6 ppb	Non-Detect	130 ppb
10/12/2021	41.86	1,2,-Dichloroethane	8.8 ppb	6.3 ppb	2000 ppb
10/12/2021	41.86	cis-1,2-Dichloroethene	380 ppb	84 ppb	620 ppb
10/12/2021	41.86	trans-1,2-Dichloroethene	1.5 ppb	Non-Detect	558 ppb
10/12/2021	41.86	1,2-Dichloropropane	2.7 ppb	4.2 ppb	520 ppb
10/12/2021	41.86	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	41.86	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	41.86	Trichloroethene	3.1 ppb	3.2 ppb	220 ppb
10/12/2021	41.86	Vinyl Chloride	310 ppb	95 ppb	930 ppb

Guard Well G592

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	35.66	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	35.66	Chloroform	2.1 ppb	1.6 ppb	140 ppb
10/12/2021	35.66	1,1 Dichloroethane	53 ppb	52 ppb	410 ppb
10/12/2021	35.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	35.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	35.66	cis-1,2-Dichloroethene	3.0 ppb	4.3 ppb	620 ppb
10/12/2021	35.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	35.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	35.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	35.66	Tetrachloroethene	23 ppb	24 ppb	53 ppb
10/12/2021	35.66	Trichloroethene	3.0 ppb	4.5 ppb	220 ppb
10/12/2021	35.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G600

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	22.30	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	22.30	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	22.30	1,1 Dichloroethane	8.5 ppb	20 ppb	410 ppb
10/12/2021	22.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	22.30	1,2,-Dichloroethane	1.6 ppb	1.2 ppb	2000 ppb
10/12/2021	22.30	cis-1,2-Dichloroethene	310 ppb	240 ppb	620 ppb
10/12/2021	22.30	trans-1,2-Dichloroethene	3.2 ppb	3.4 ppb	558 ppb
10/12/2021	22.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	22.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	22.30	Tetrachloroethene	150 ppb	22 ppb	53 ppb
10/12/2021	22.30	Trichloroethene	170 ppb	93 ppb	220 ppb
10/12/2021	22.30	Vinyl Chloride	20 ppb	45 ppb	930 ppb

Plume Well G165

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	44.66	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	44.66	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	44.66	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	44.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	44.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	44.66	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	44.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	44.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	44.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	44.66	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	44.66	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	44.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G166

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	71.41	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	71.41	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	71.41	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	71.41	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	71.41	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	71.41	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	71.41	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	71.41	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	71.41	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	71.41	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	71.41	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	71.41	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G168

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	50.30	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	50.30	Chloroform	1.8 ppb	3.1 ppb	140 ppb
10/12/2021	50.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	50.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	50.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	50.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	50.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	50.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	50.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	50.30	Tetrachloroethene	98 ppb	110 ppb	53 ppb
10/12/2021	50.30	Trichloroethene	3.8 ppb	5.6 ppb	220 ppb
10/12/2021	50.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G547

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	44.21	Benzene	42 ppb	230 ppb	160 ppb
10/12/2021	44.21	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	44.21	1,1 Dichloroethane	1.4 ppb	4.1 ppb	410 ppb
10/12/2021	44.21	1,1 Dichloroethene	Non-Detect	1.5 ppb	130 ppb
10/12/2021	44.21	1,2,-Dichloroethane	2.8 ppb	8.0 ppb	2000 ppb
10/12/2021	44.21	cis-1,2-Dichloroethene	35 ppb	170 ppb	620 ppb
10/12/2021	44.21	trans-1,2Dichloroethene	5.1 ppb	18 ppb	558 ppb
10/12/2021	44.21	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	44.21	Methylene Chloride	4.6 ppb	14 ppb	1500 ppb
10/12/2021	44.21	Tetrachloroethene	47 ppb	120 ppb	53 ppb
10/12/2021	44.21	Trichloroethene	97 ppb	350 ppb	220 ppb
10/12/2021	44.21	Vinyl Chloride	7.8 ppb	38 ppb	930 ppb

Plume Well G564

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	45.93	Benzene	8.0 ppb	11 ppb	160 ppb
10/12/2021	45.93	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	45.93	1,1 Dichloroethane	1.3 ppb	1.4 ppb	410 ppb
10/12/2021	45.93	1,1 Dichloroethene	1.4 ppb	5.8 ppb	130 ppb
10/12/2021	45.93	1,2,-Dichloroethane	1.8 ppb	1.8 ppb	2000 ppb
10/12/2021	45.93	cis-1,2-Dichloroethene	380 ppb	1900 ppb	620 ppb
10/12/2021	45.93	trans-1,2-Dichloroethene	6.6 ppb	14 ppb	558 ppb
10/12/2021	45.93	1,2-Dichloropropane	Non-Detect	1.4 ppb	520 ppb
10/12/2021	45.93	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	45.93	Tetrachloroethene	Non-Detect	6.2 ppb	53 ppb
10/12/2021	45.93	Trichloroethene	Non-Detect	3.4 ppb	220 ppb
10/12/2021	45.93	Vinyl Chloride	110 ppb	100 ppb	930 ppb

Plume Well G575

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	46.52	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	46.52	Chloroform	1.9 ppb	1.5 ppb	140 ppb
10/12/2021	46.52	1,1 Dichloroethane	43 ppb	35 ppb	410 ppb
10/12/2021	46.52	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	46.52	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	46.52	cis-1,2-Dichloroethene	1.4 ppb	2.9 ppb	620 ppb
10/12/2021	46.52	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	46.52	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	46.52	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	46.52	Tetrachloroethene	7.6 ppb	6.1 ppb	53 ppb
10/12/2021	46.52	Trichloroethene	1.7 ppb	Non-Detect	220 ppb
10/12/2021	46.52	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G594

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	41.71	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	41.71	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	41.71	1,1 Dichloroethane	1.3 ppb	2.5 ppb	410 ppb
10/12/2021	41.71	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	41.71	1,2,-Dichloroethane	Non-Detect	1.3 ppb	2000 ppb
10/12/2021	41.71	cis-1,2-Dichloroethene	25 ppb	75 ppb	620 ppb
10/12/2021	41.71	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	41.71	1,2-Dichloropropane	Non-Detect	1.0 ppb	520 ppb
10/12/2021	41.71	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	41.71	Tetrachloroethene	2.2 ppb	2.4 ppb	53 ppb
10/12/2021	41.71	Trichloroethene	2.4 ppb	4.7 ppb	220 ppb
10/12/2021	41.71	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G211

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	42.60	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	42.60	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	42.60	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	42.60	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	42.60	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	42.60	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	42.60	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	42.60	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	42.60	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	42.60	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	42.60	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	42.60	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G570

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	17.00	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	17.00	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	17.00	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	17.00	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	17.00	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	17.00	cis-1,2-Dichloroethene	4.4 ppb	3.5 ppb	620 ppb
10/12/2021	17.00	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	17.00	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	17.00	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	17.00	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	17.00	Trichloroethene	1.7 ppb	Non-Detect	220 ppb
10/12/2021	17.00	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S501

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2020	Concentrations Fall 2021	USEPA Region 4
10/12/2021	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	N/A	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
10/12/2021	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S502

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2021	USEPA Region 4
10/12/2021	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
10/12/2021	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
10/12/2021	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
10/12/2021	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
10/12/2021	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
10/12/2021	N/A	cis-1,2-Dichloroethene	2.1 ppb	Non-Detect	620 ppb
10/12/2021	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
10/12/2021	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
10/12/2021	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
10/12/2021	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
10/12/2021	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
10/12/2021	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Long-term Stewardship Program 2021 Annual Report

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APPENDIX B

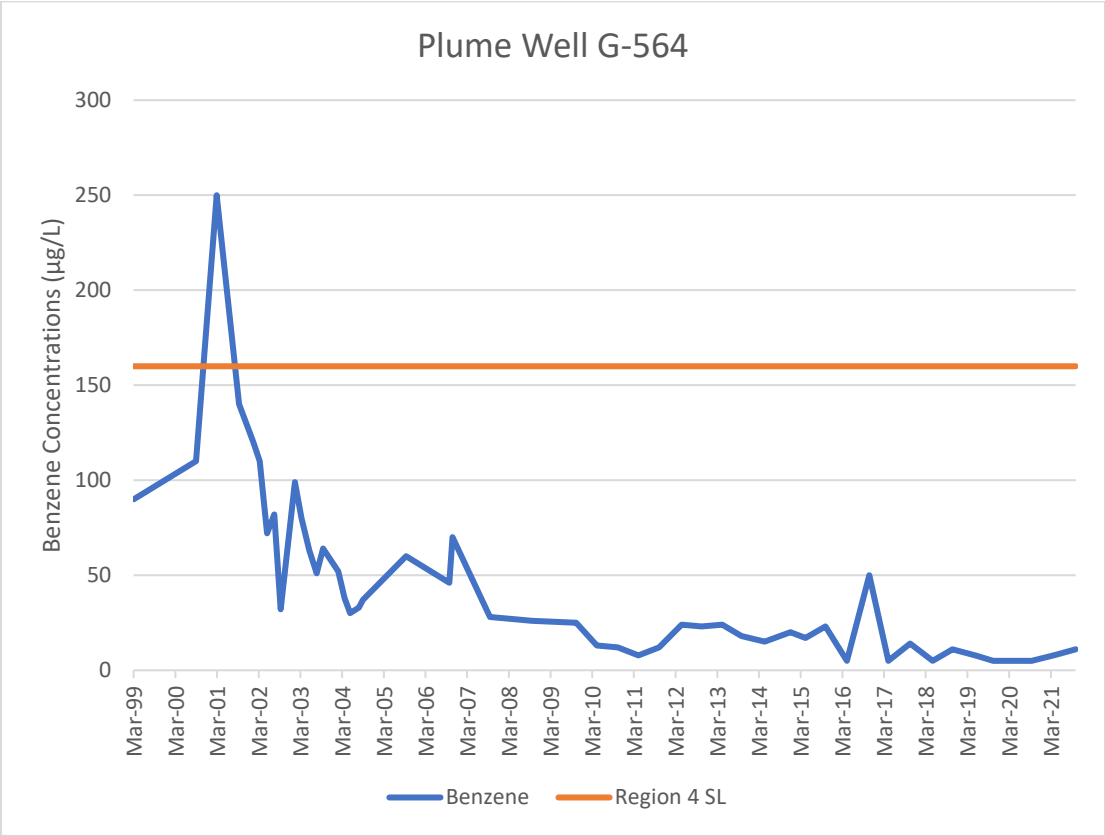
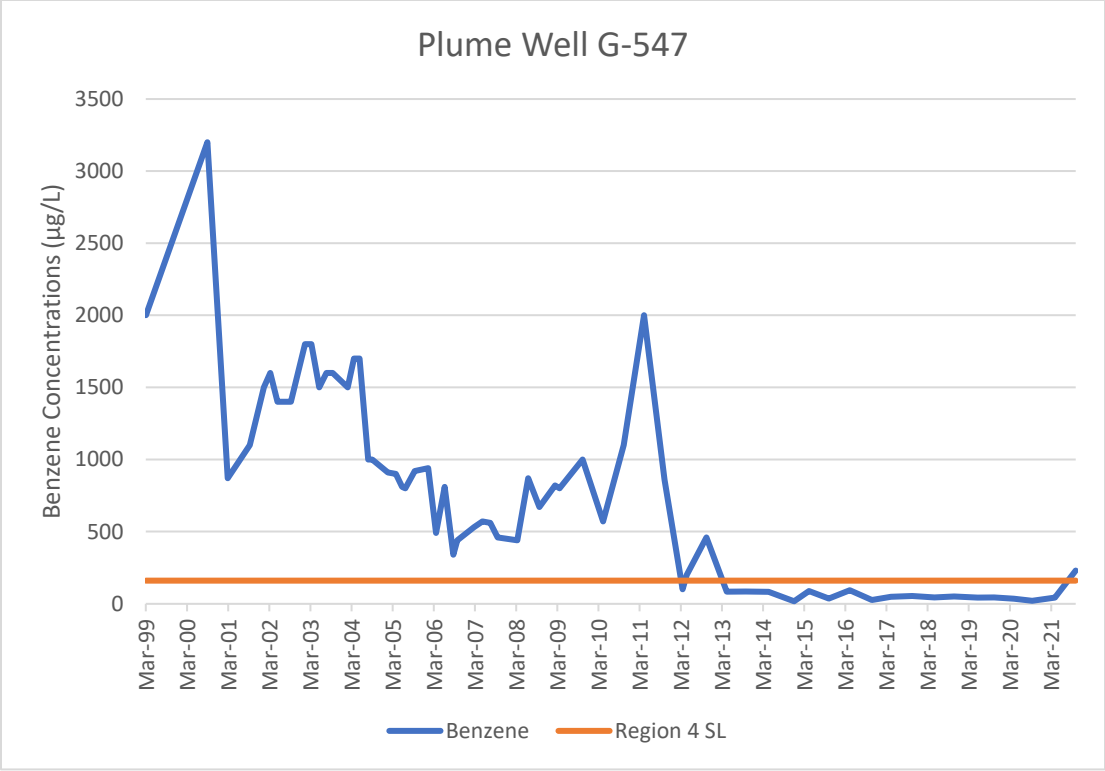
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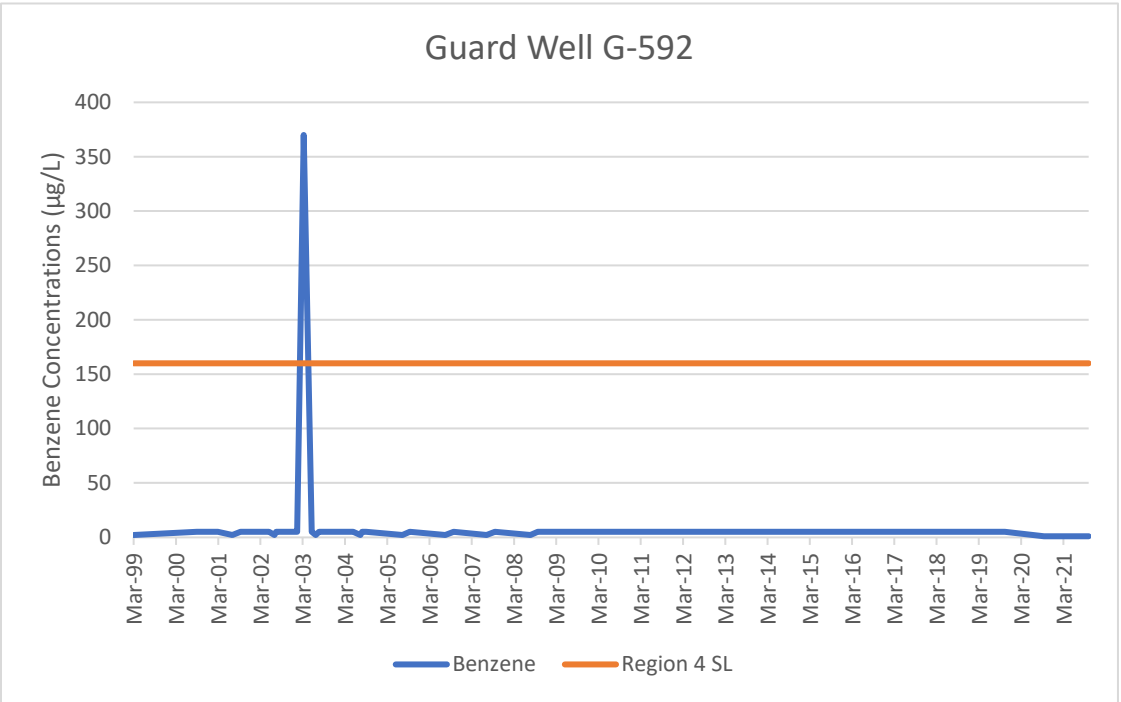
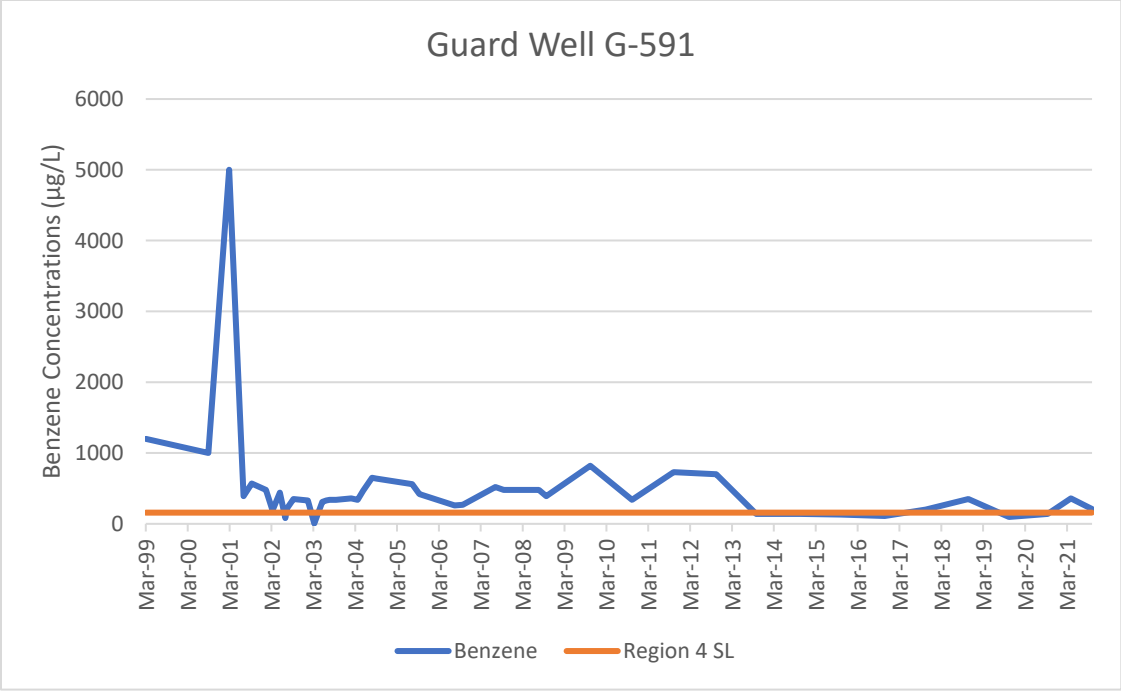
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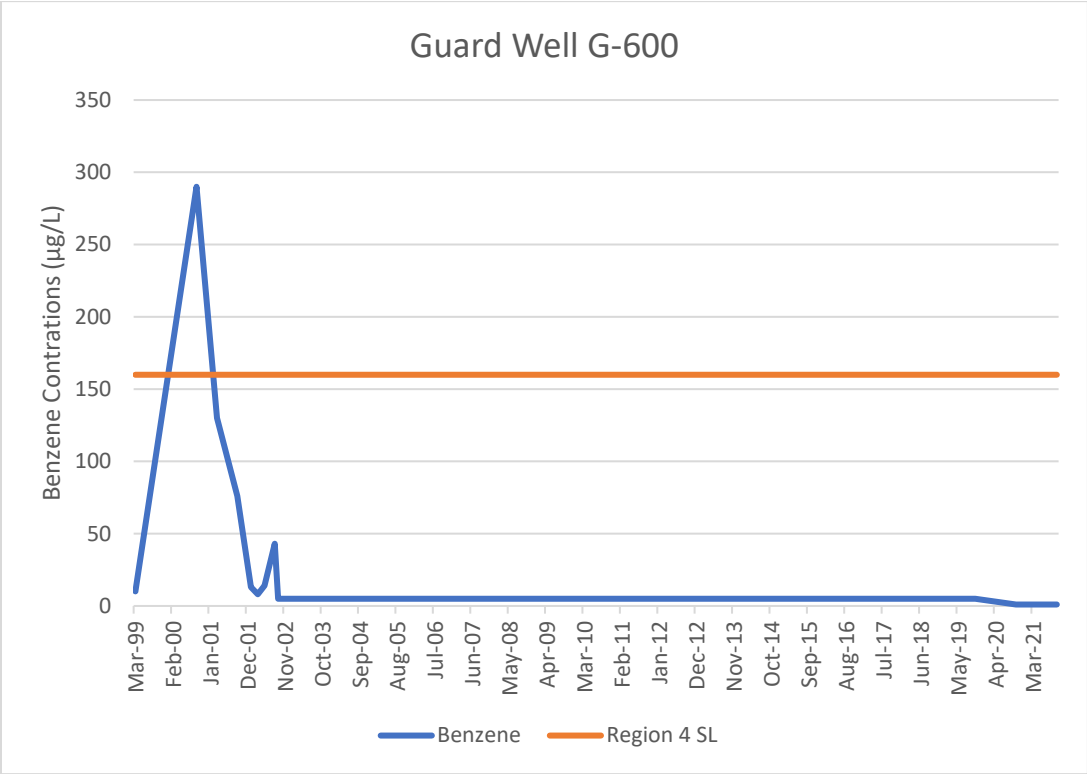
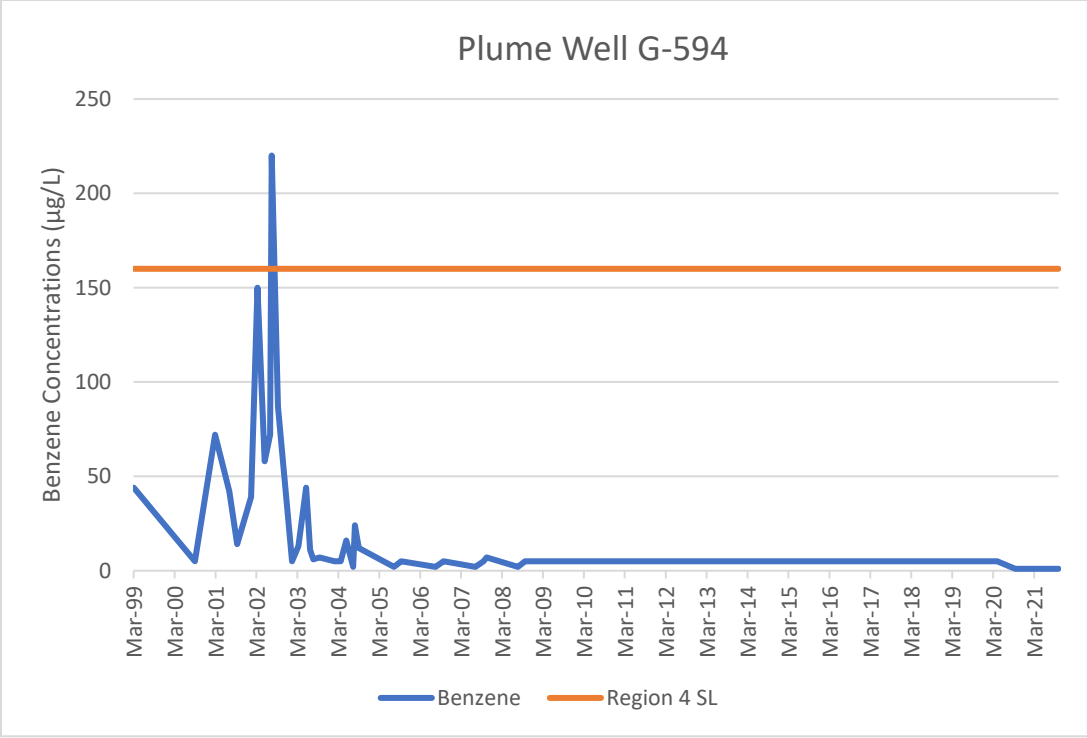
US Ecology, Sheffield, IL

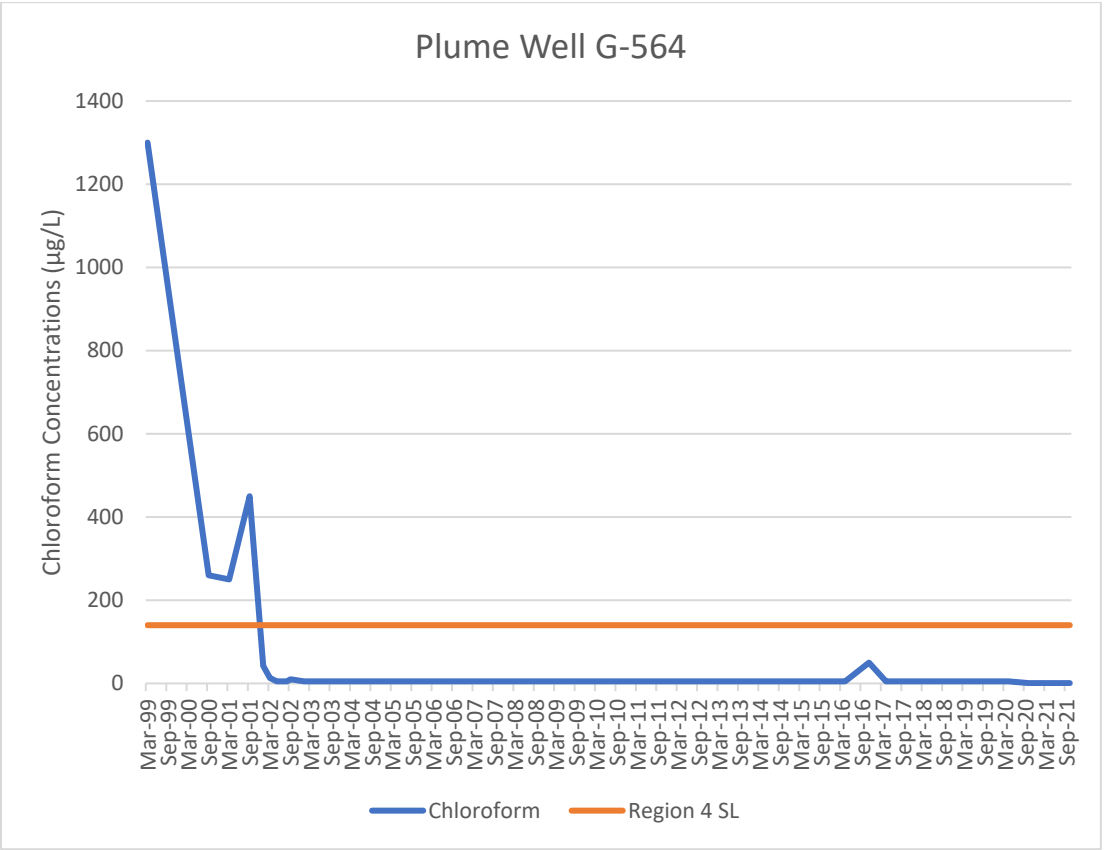
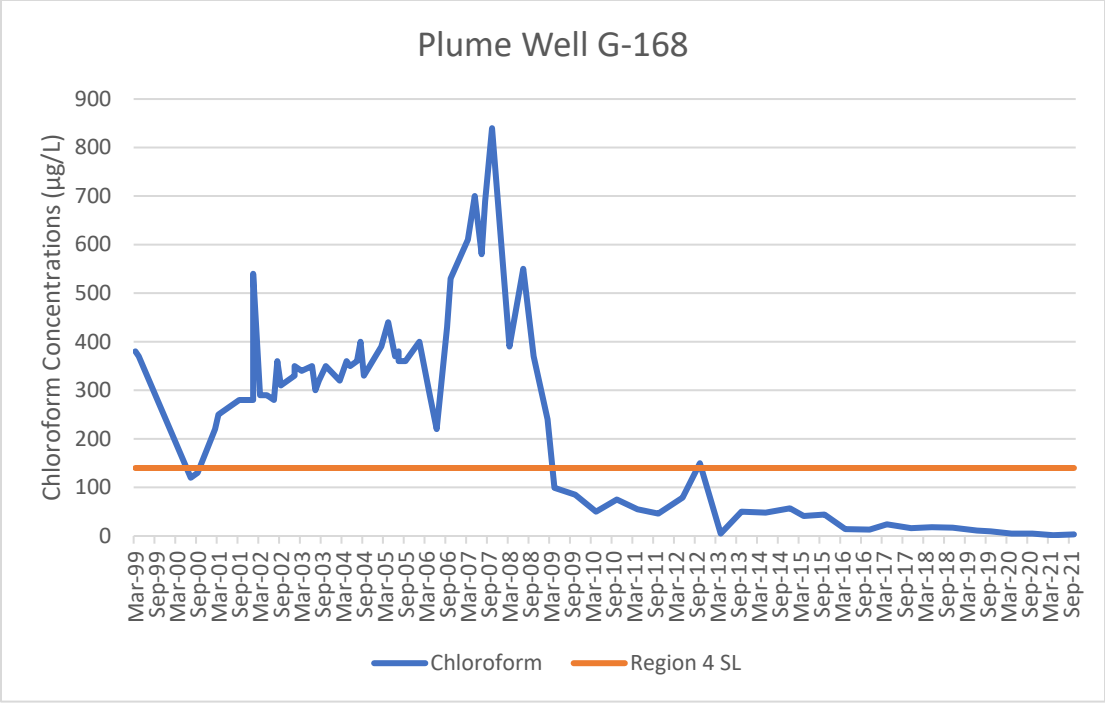
APPENDIX B.1

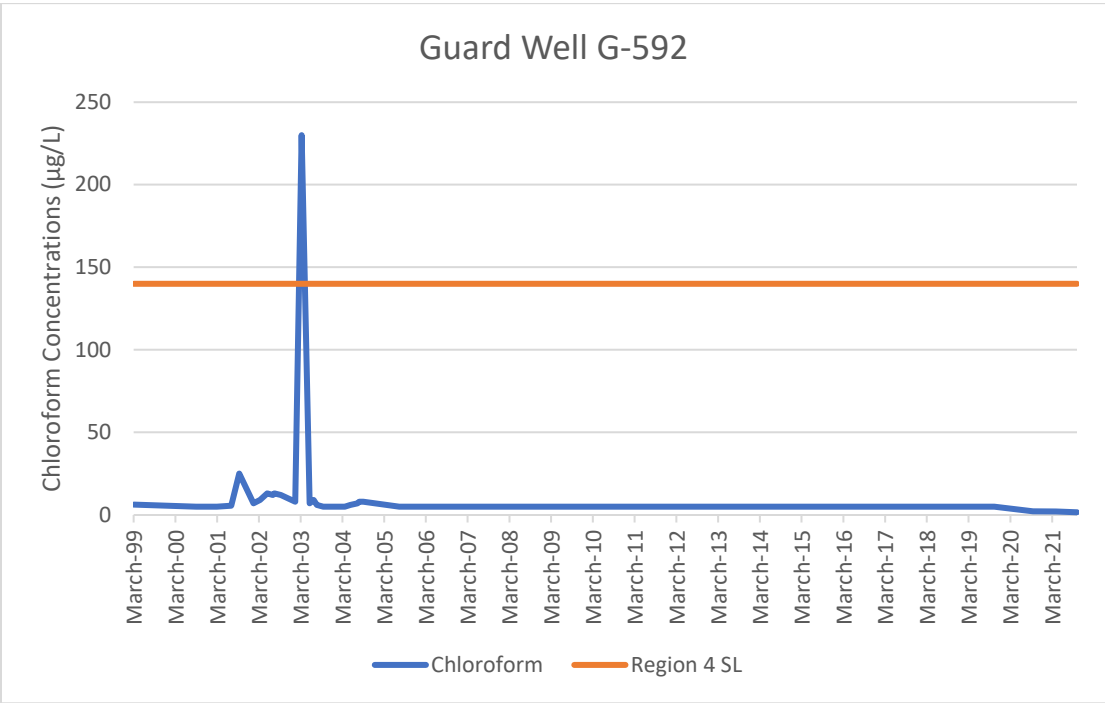
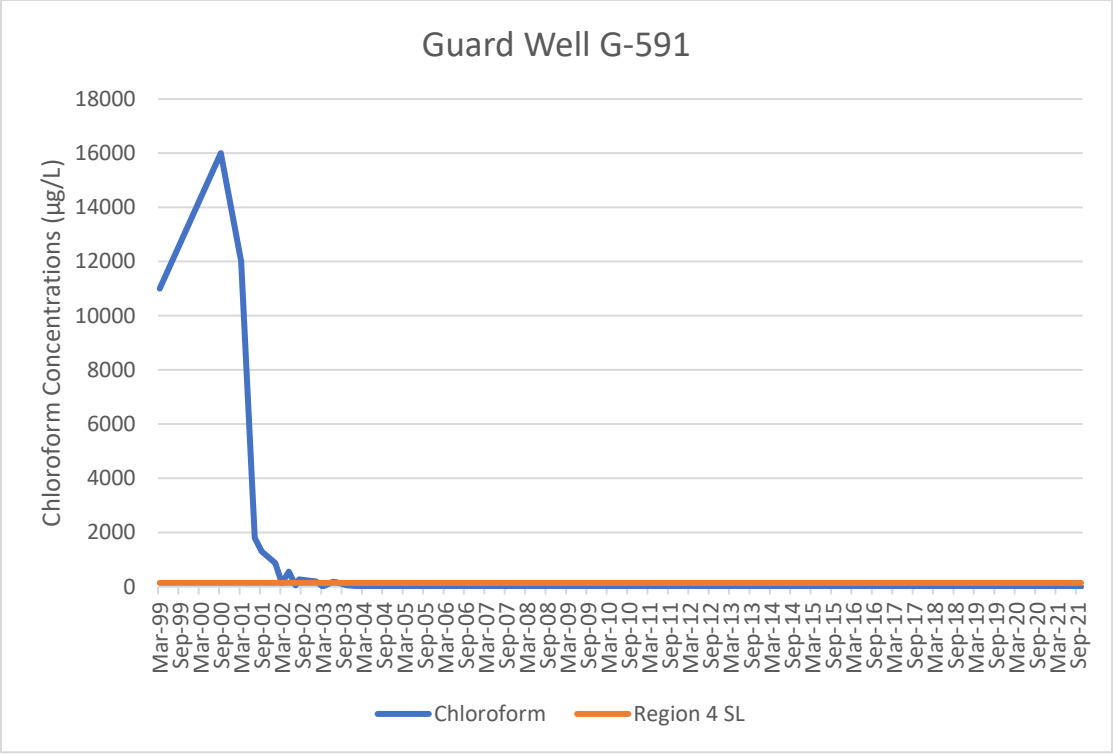
Concentration Line Plots

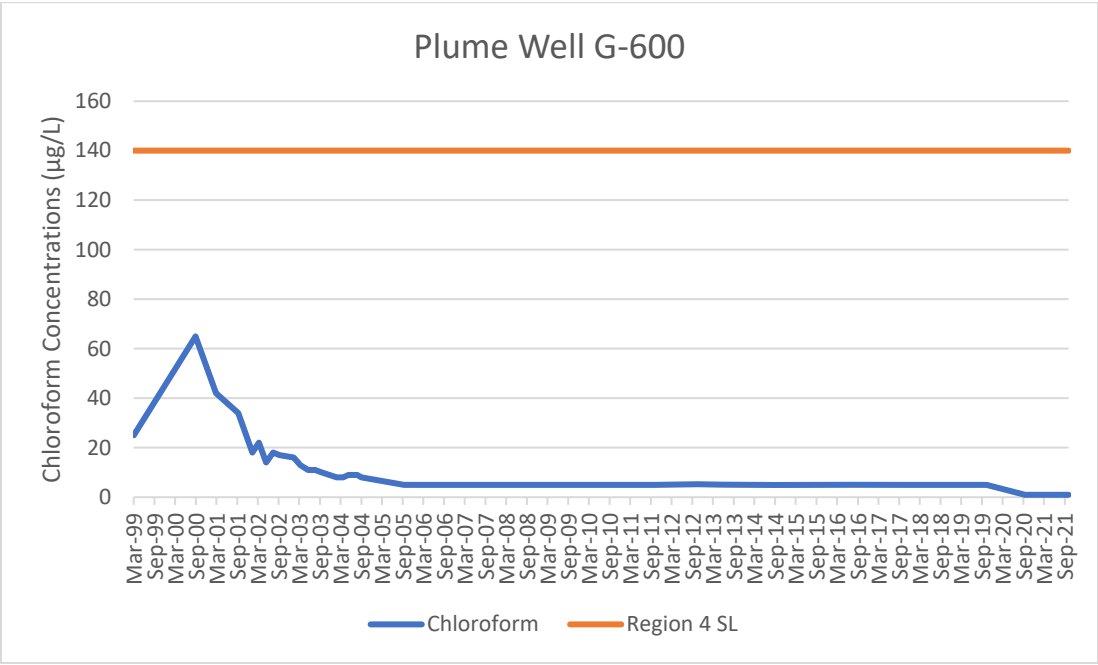
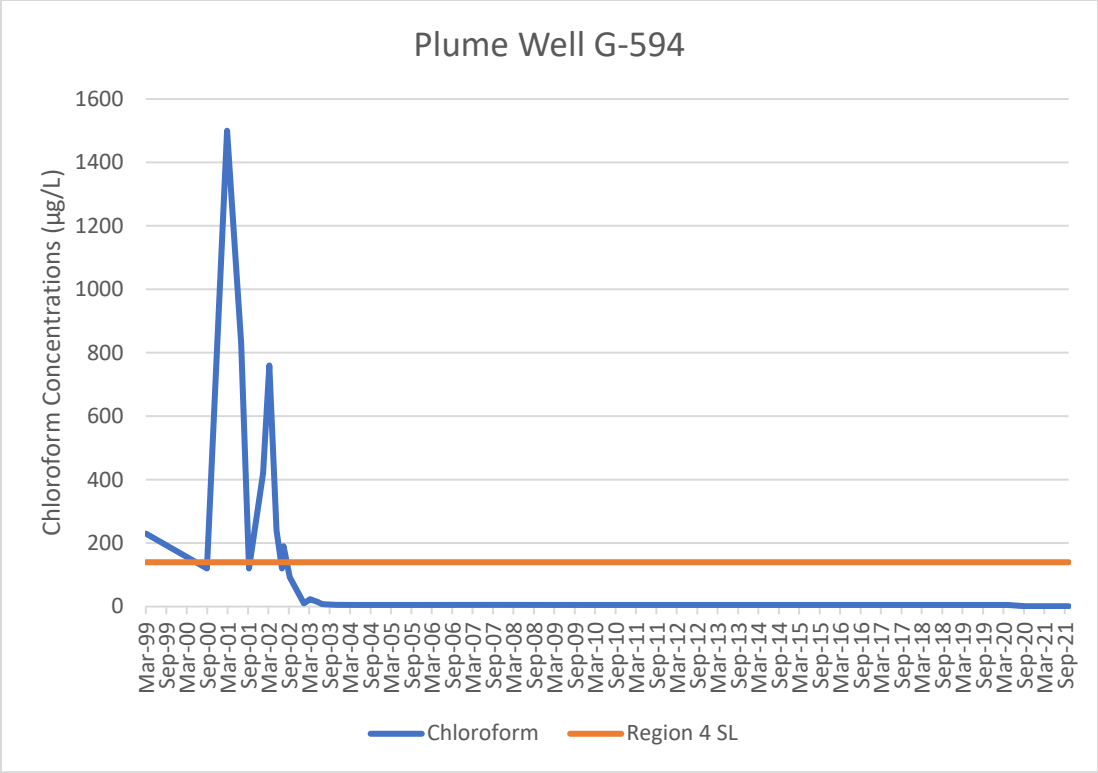


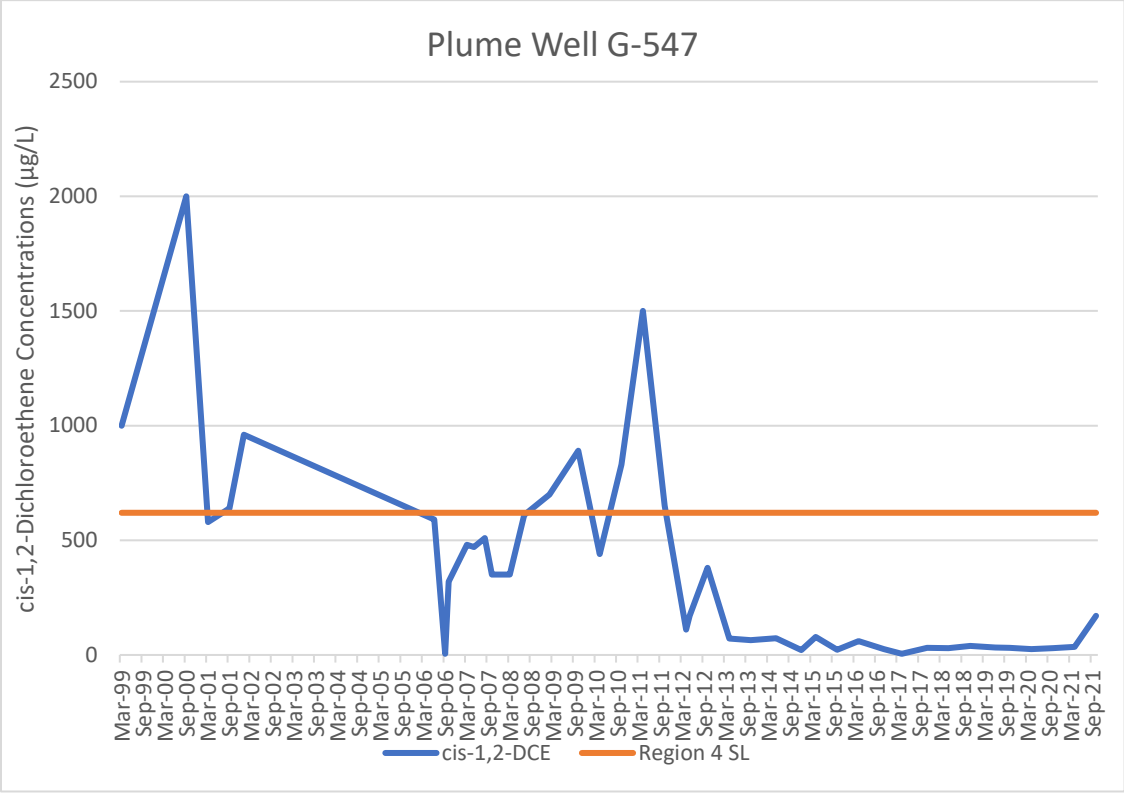
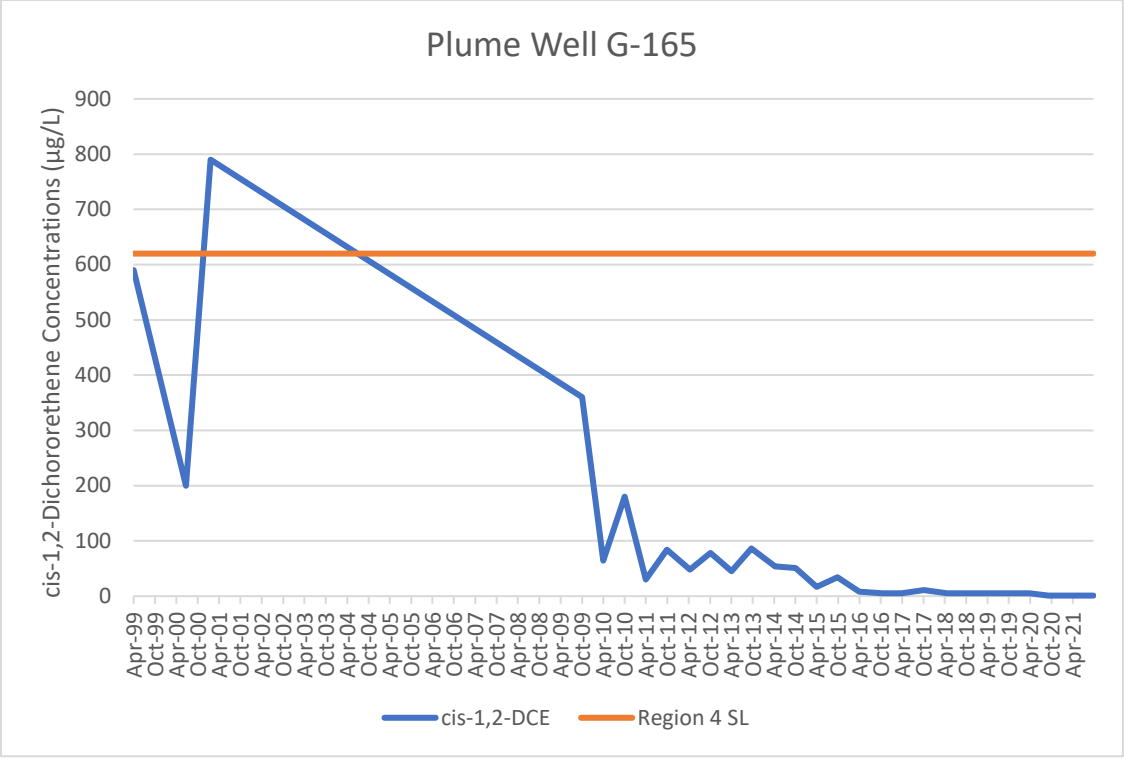


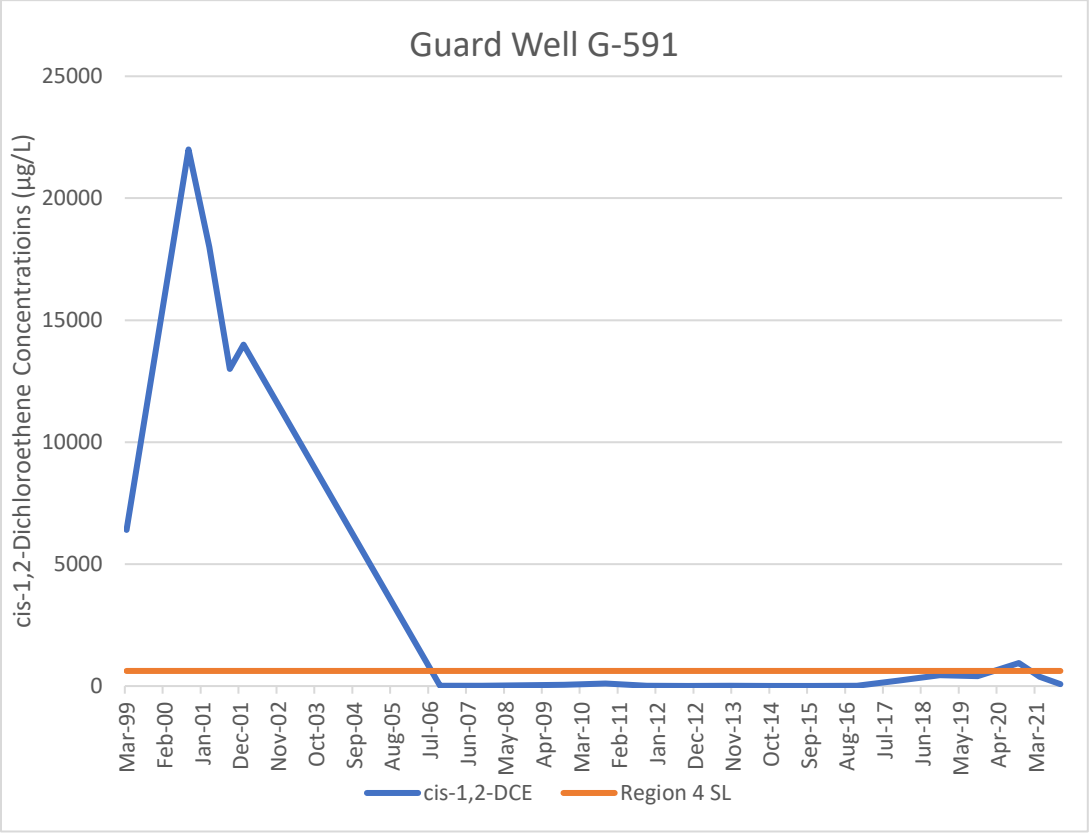
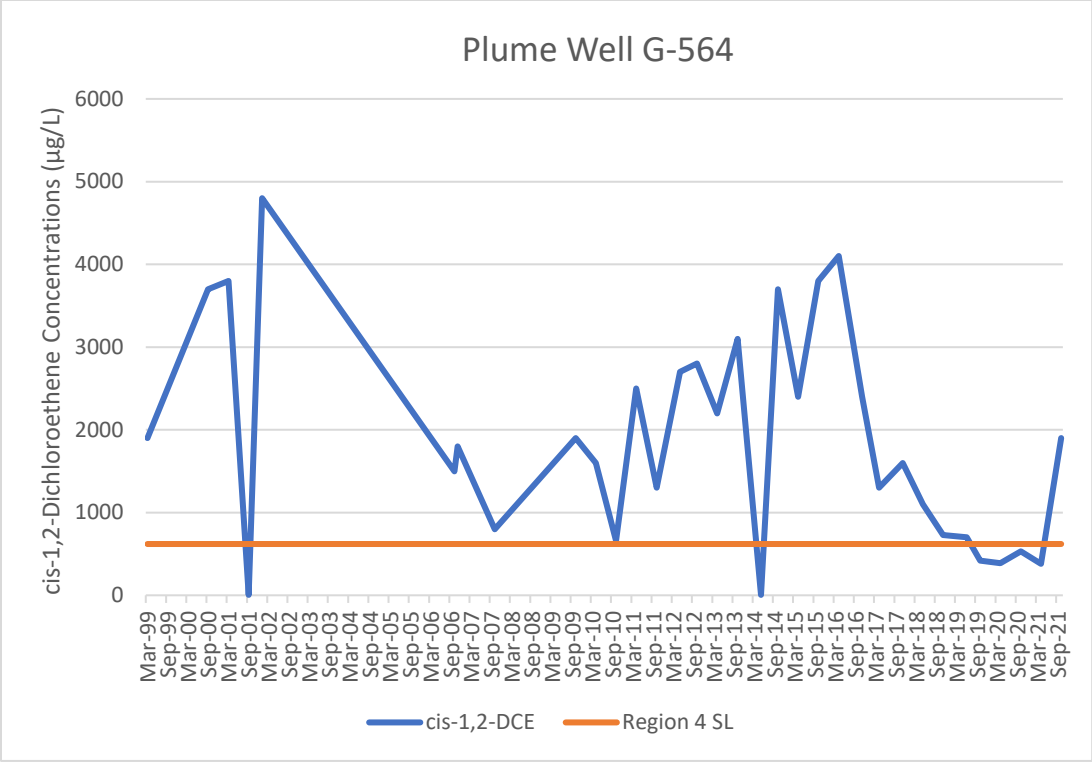


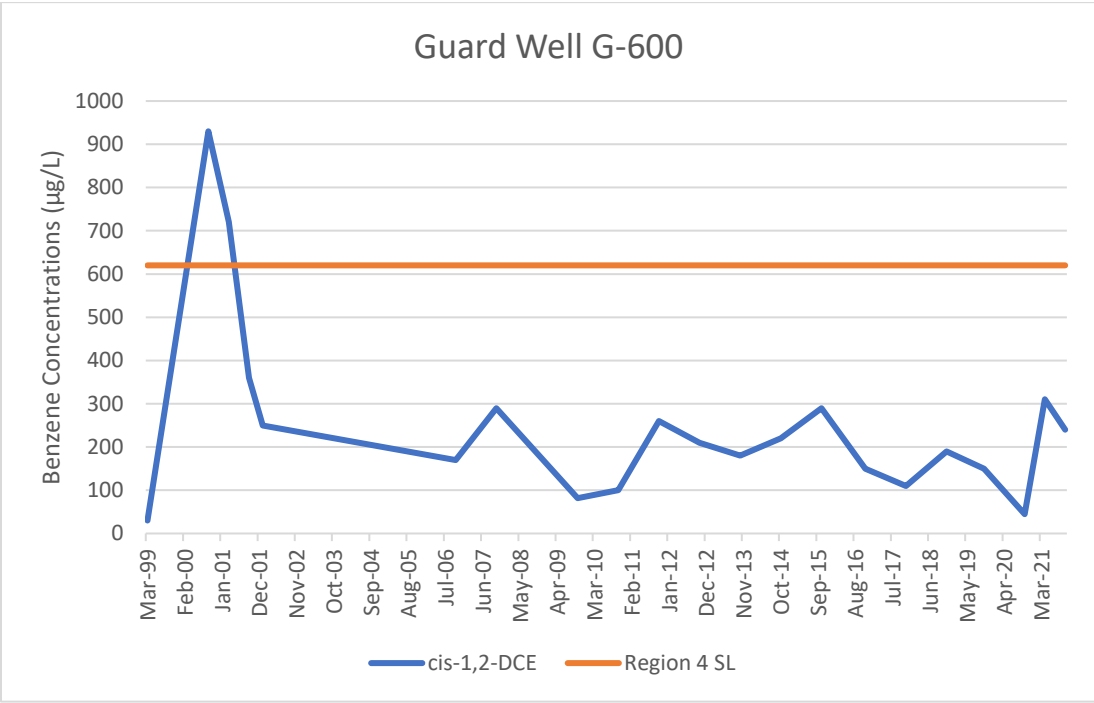
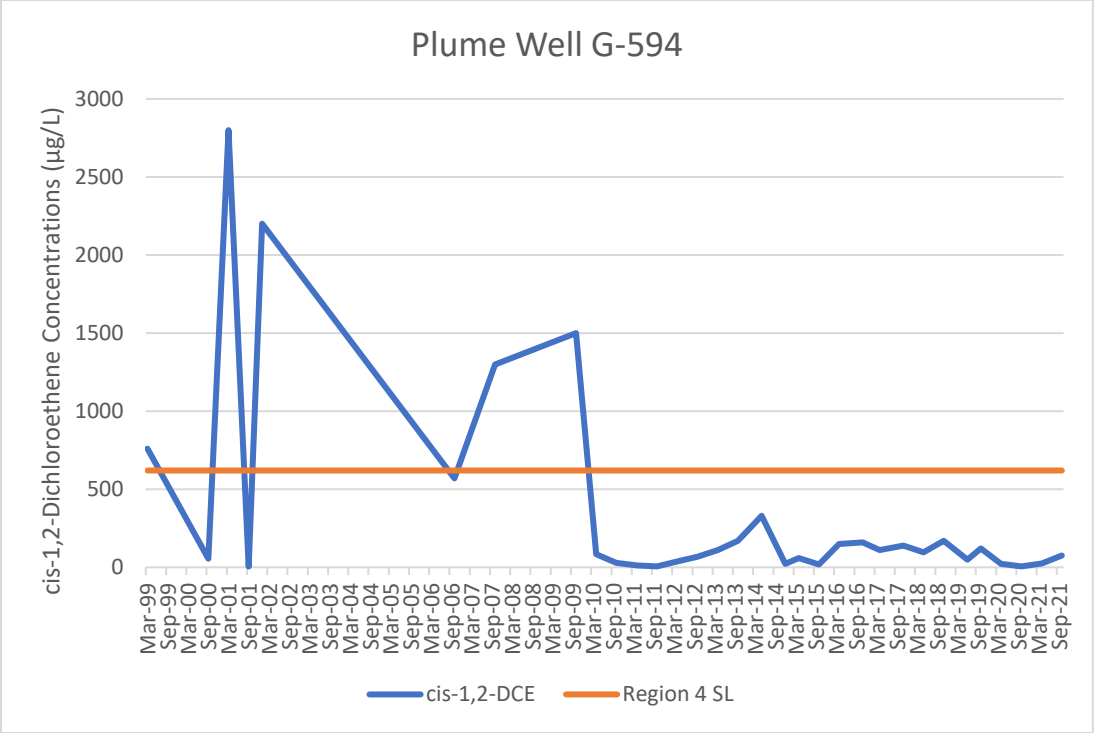


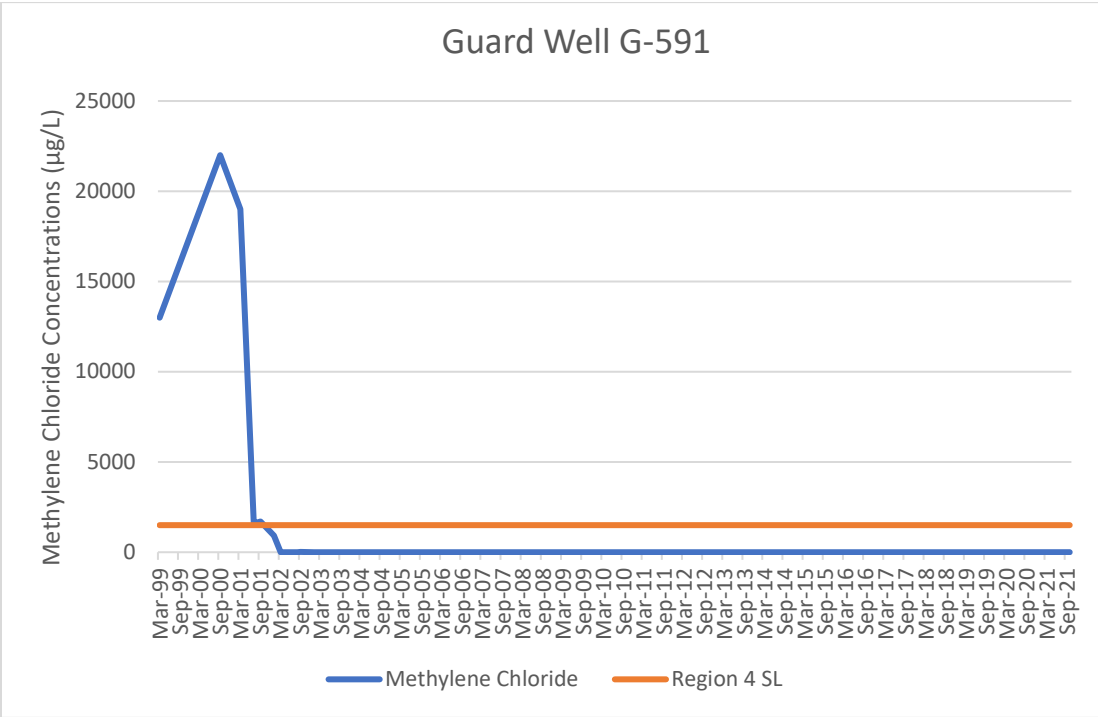
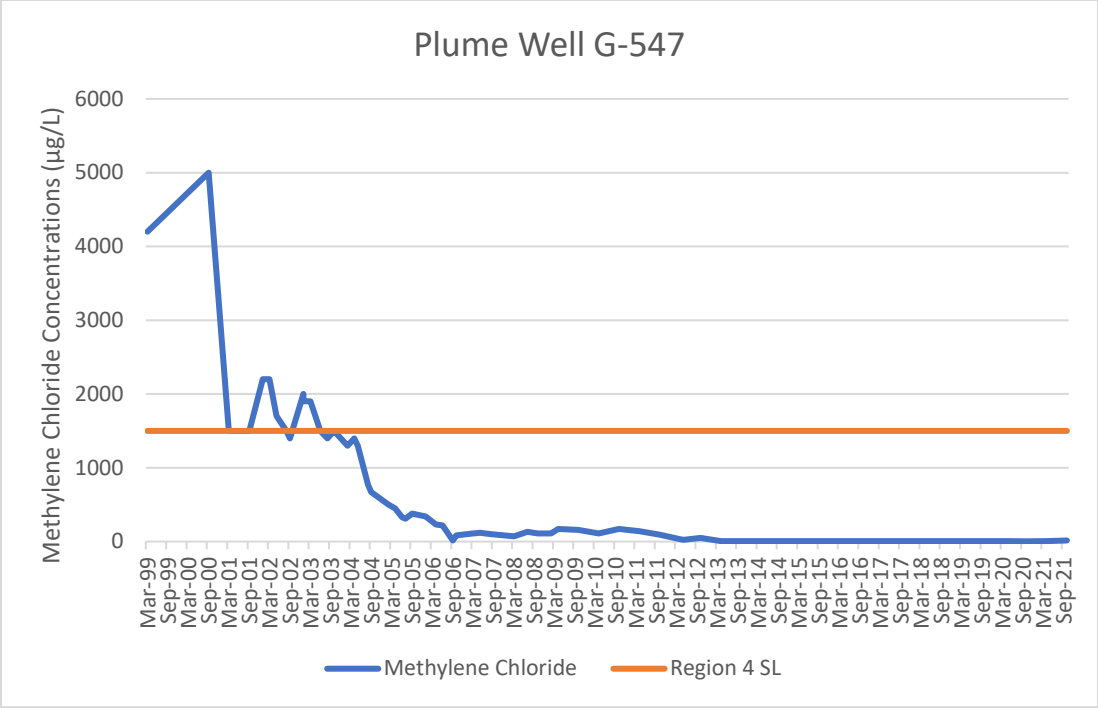


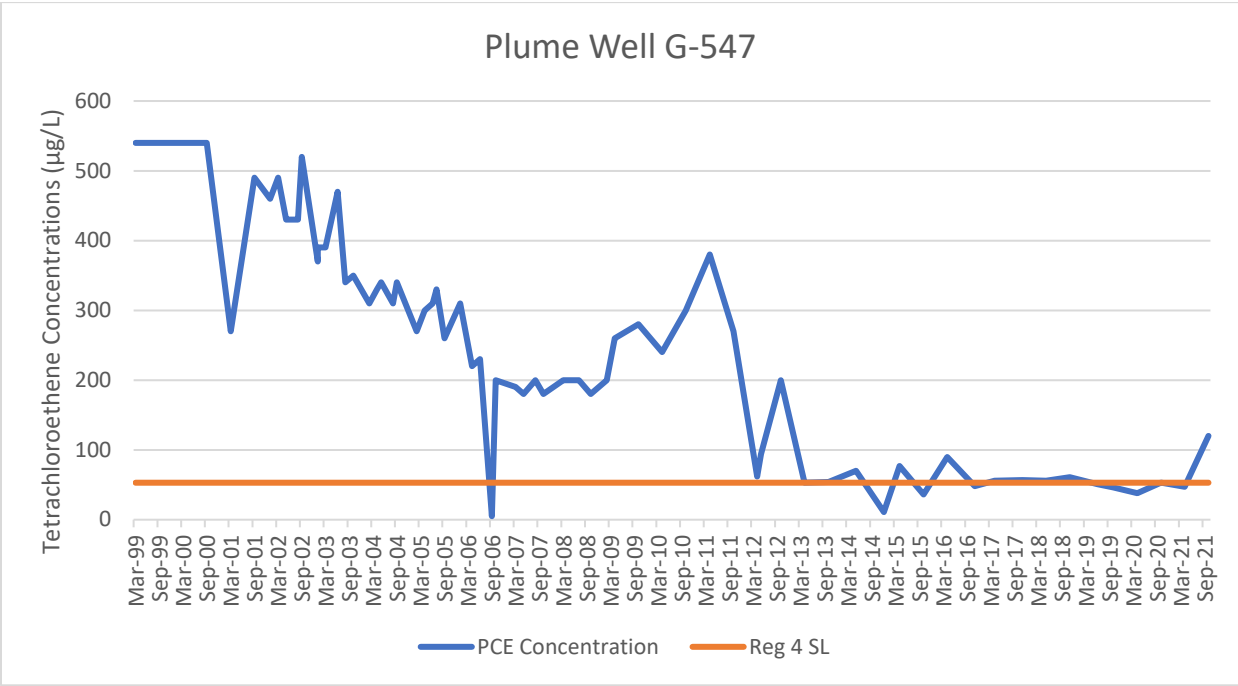
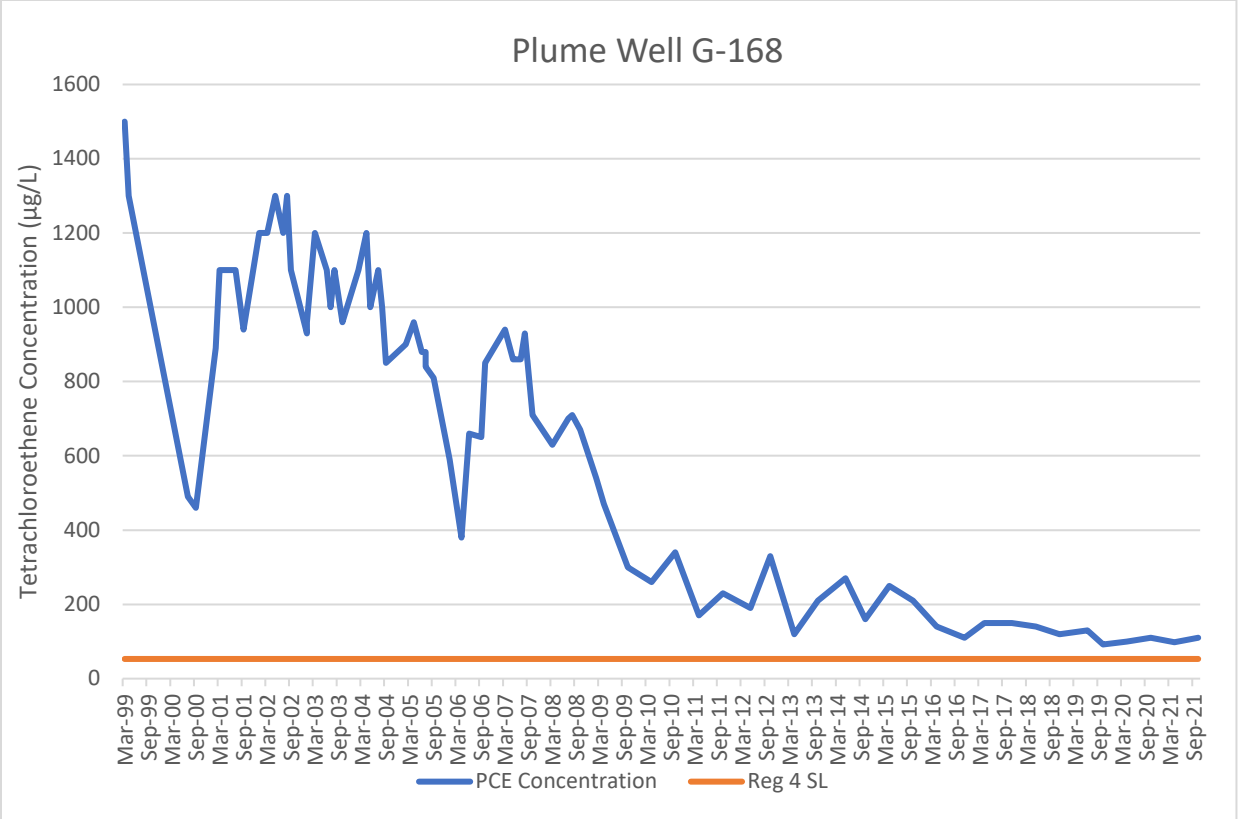


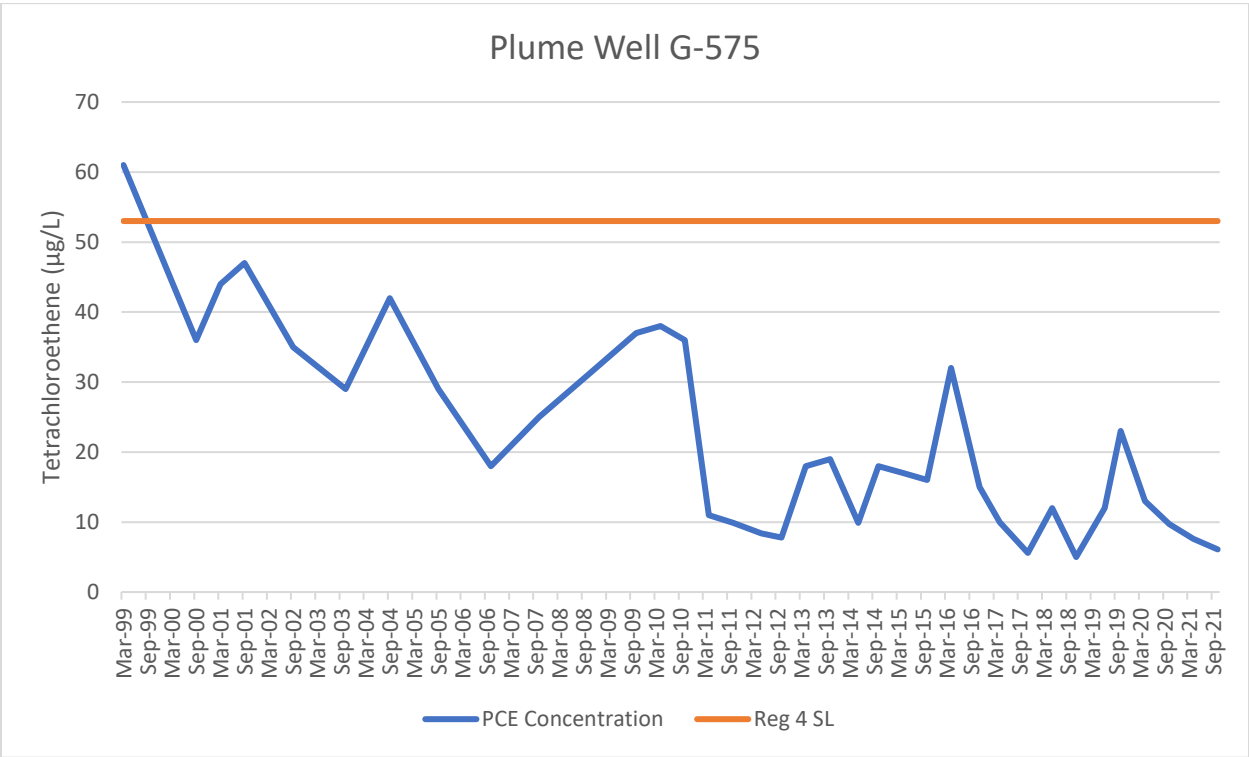
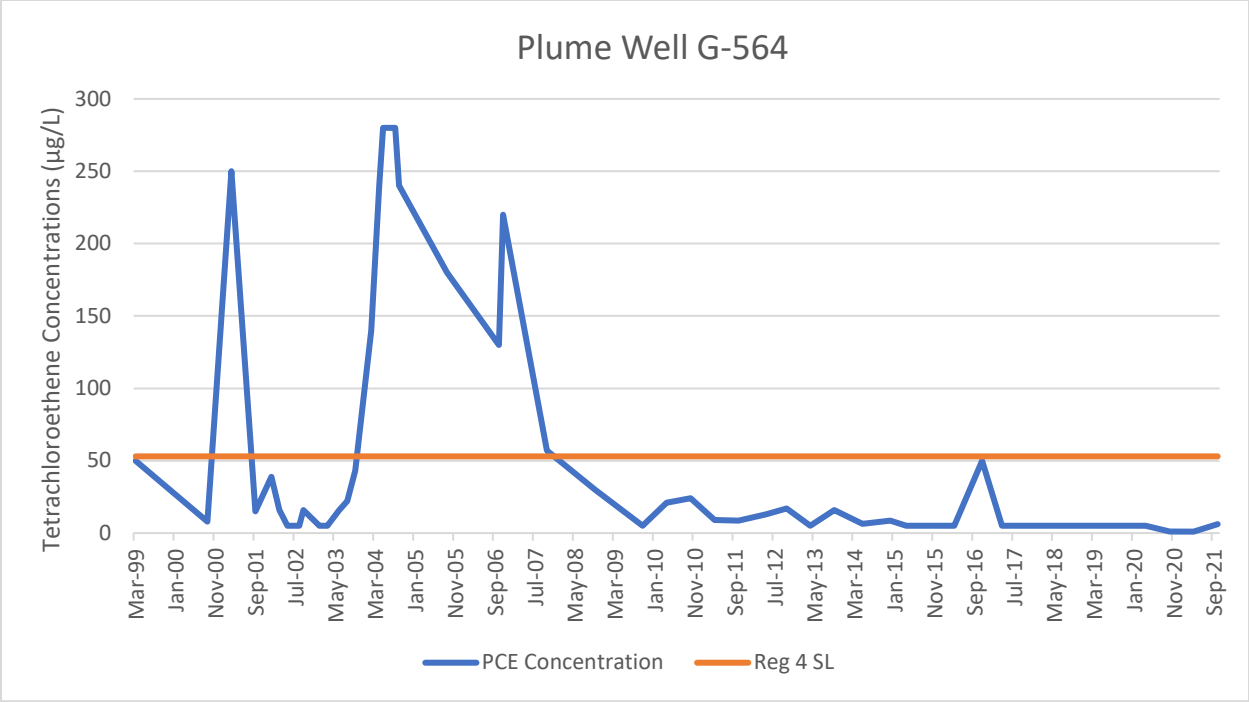


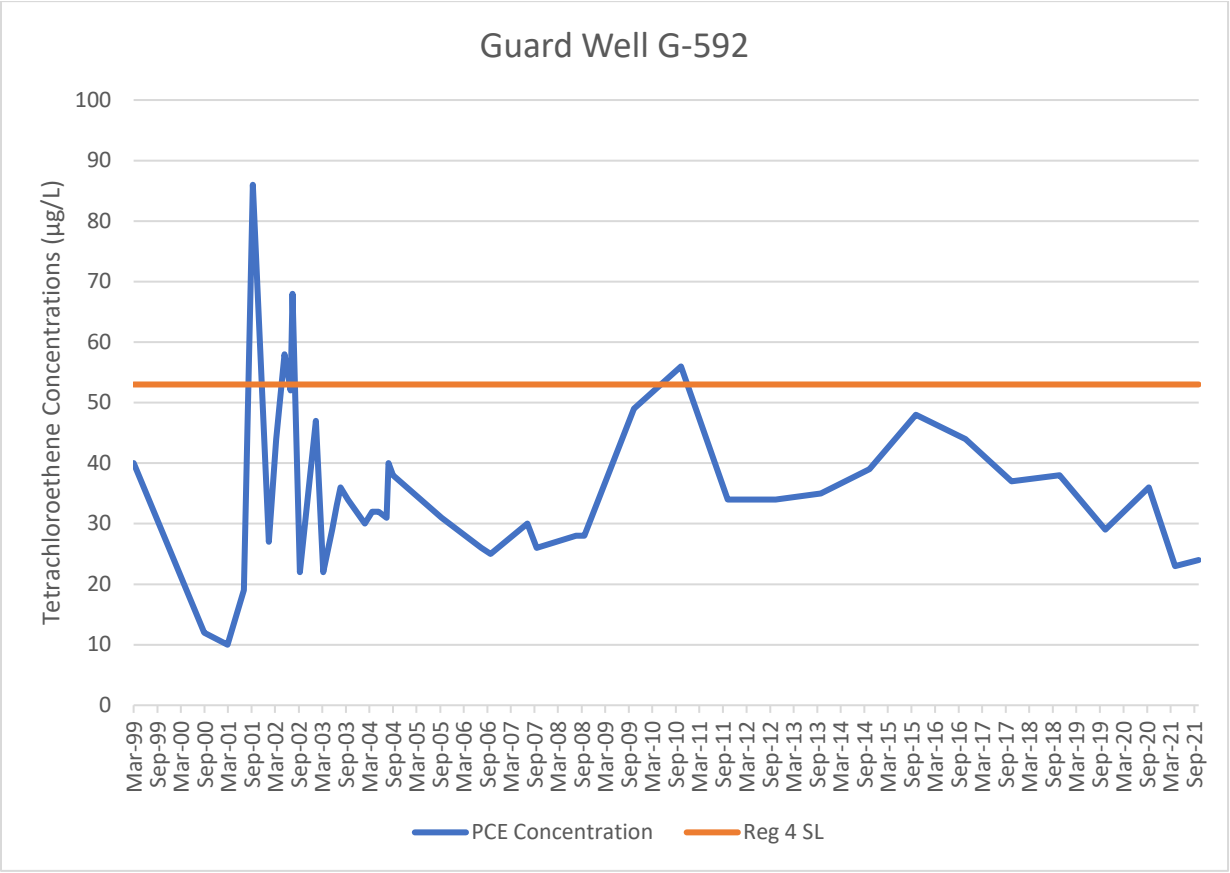
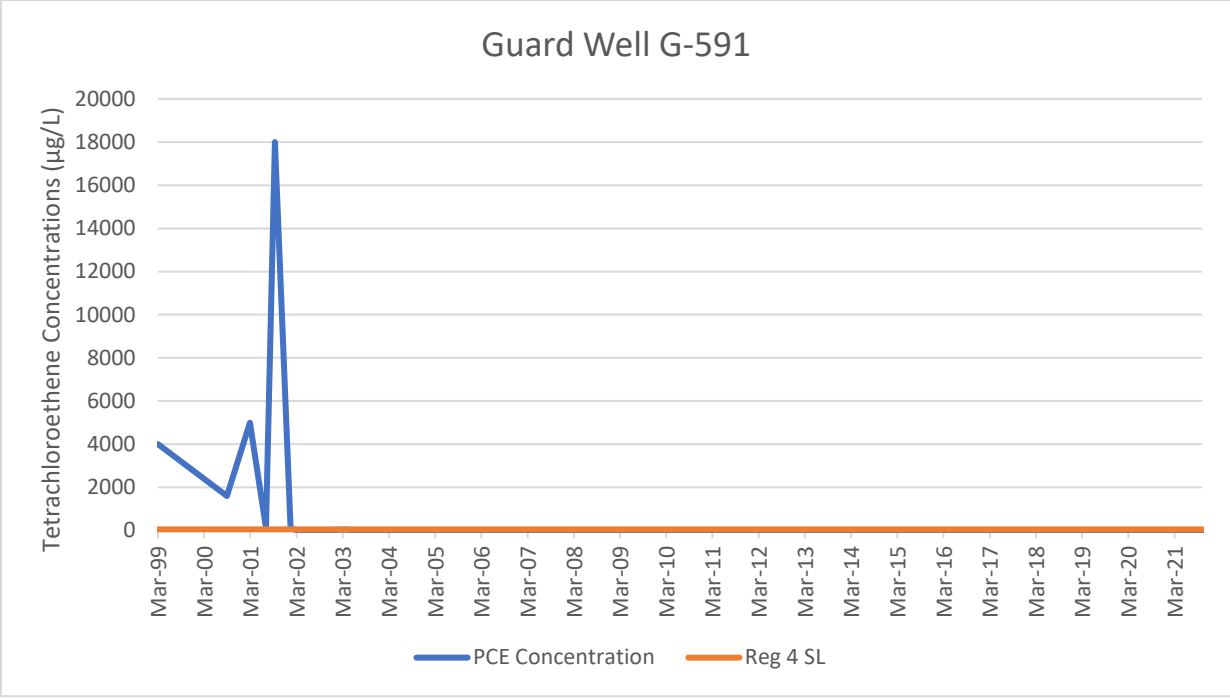


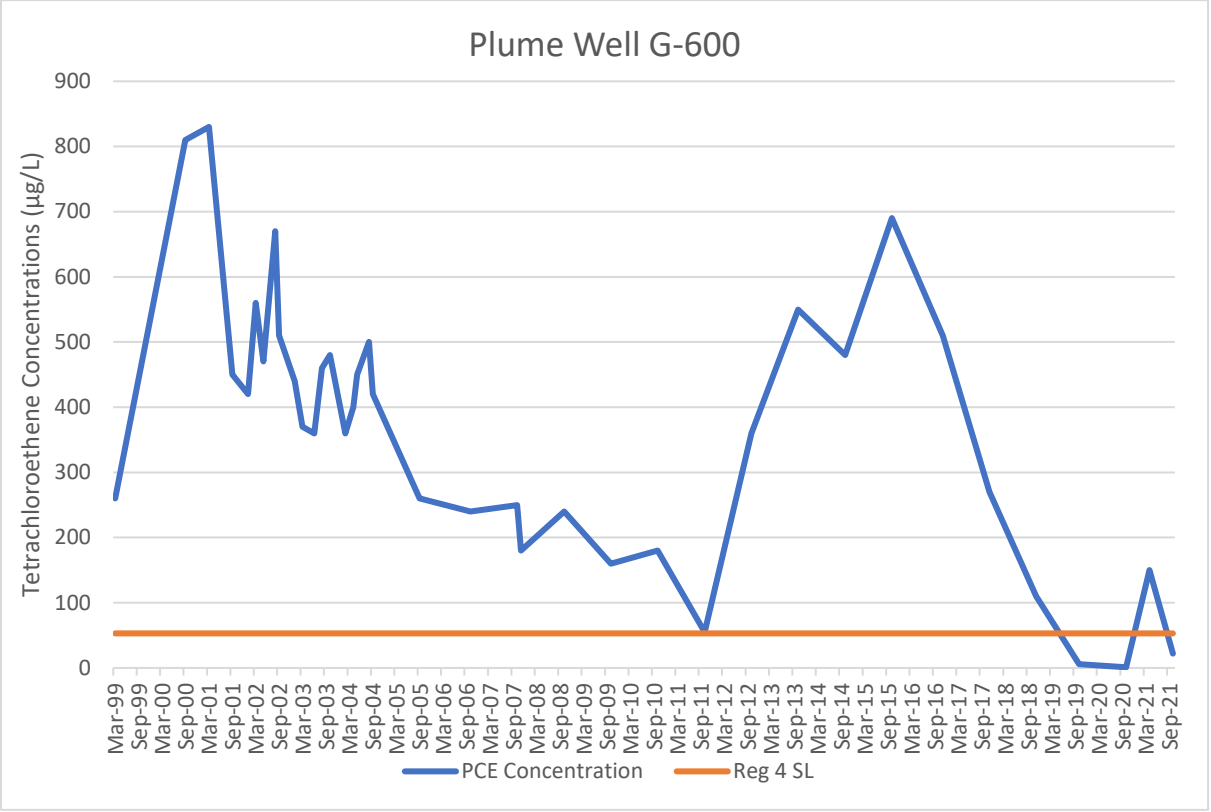
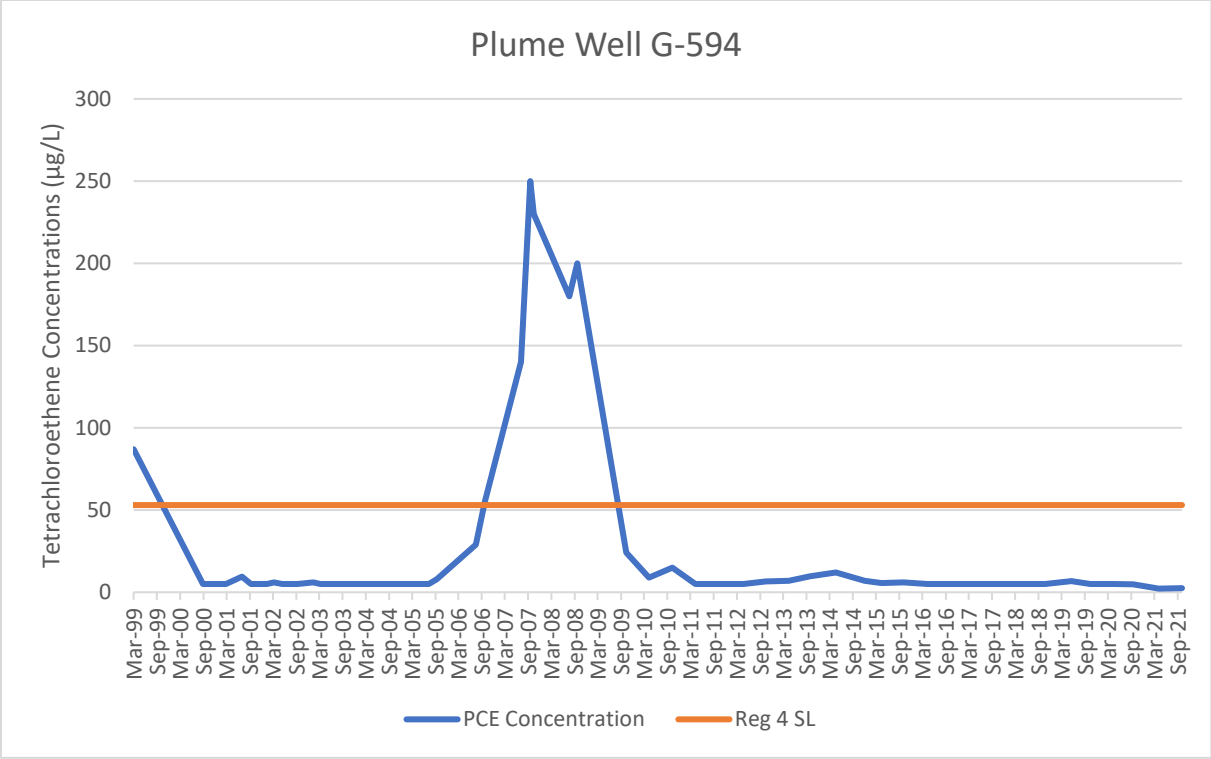


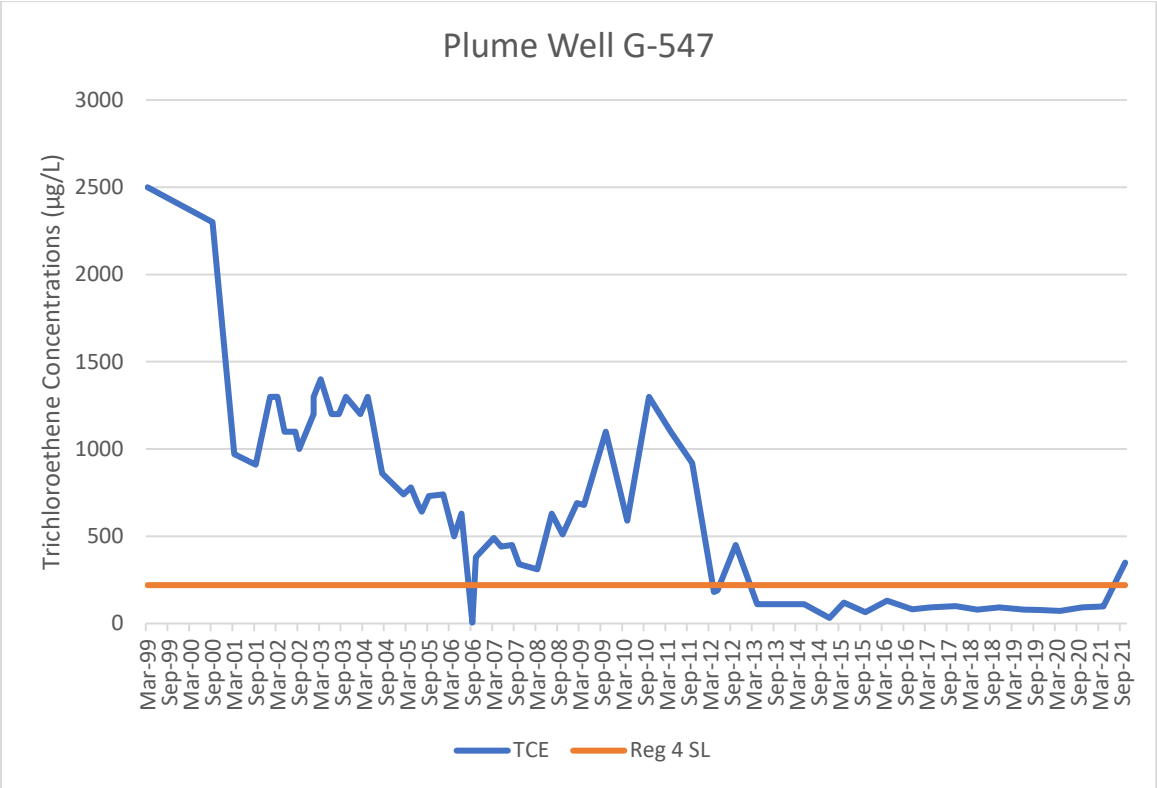
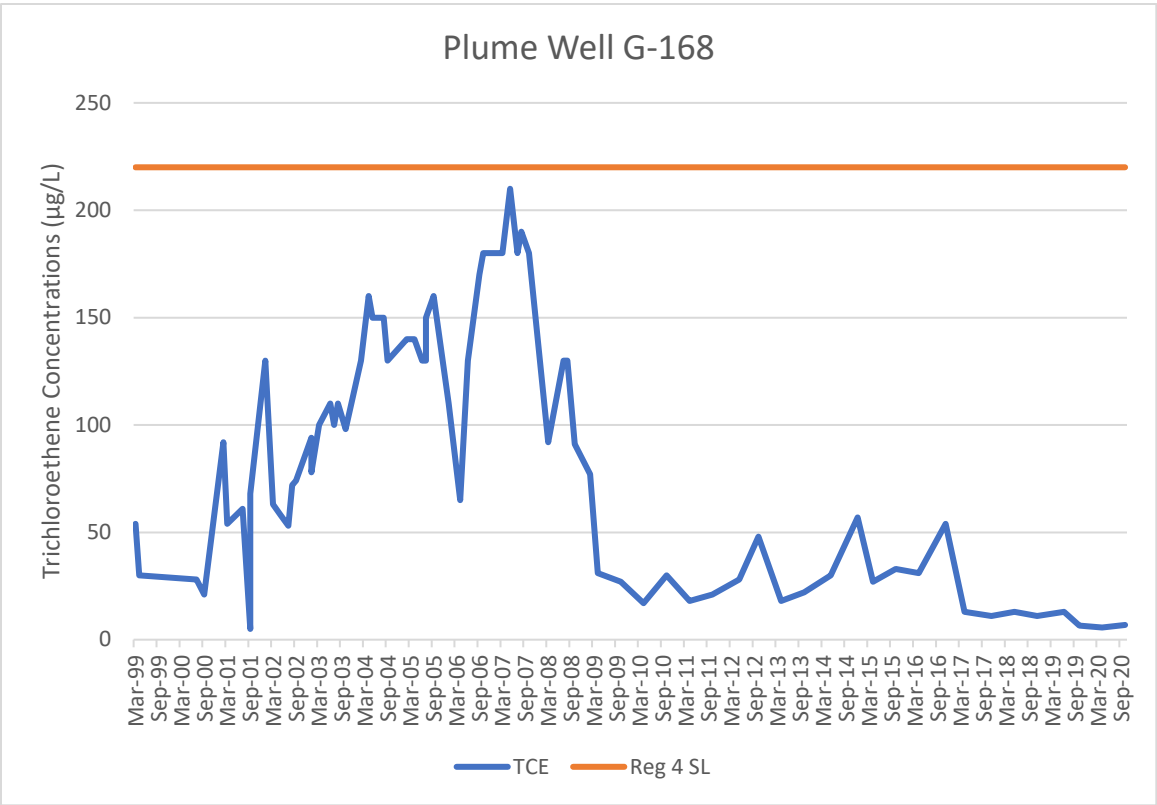


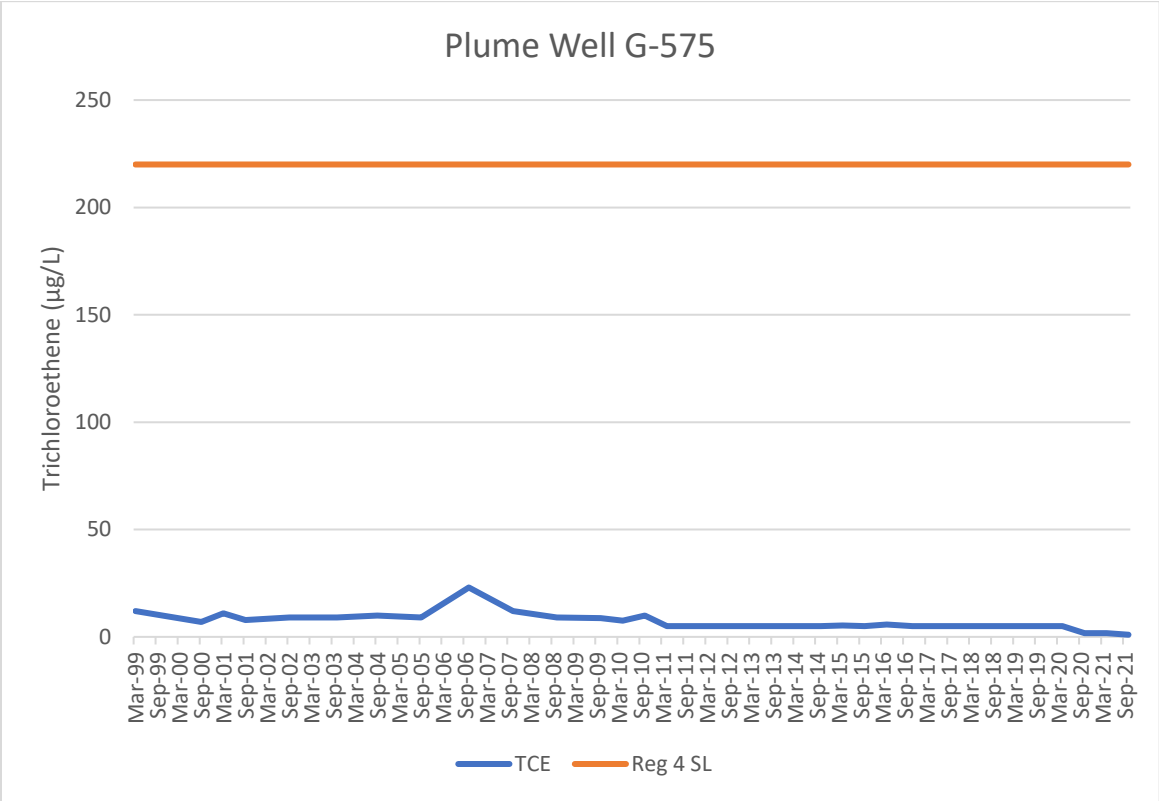
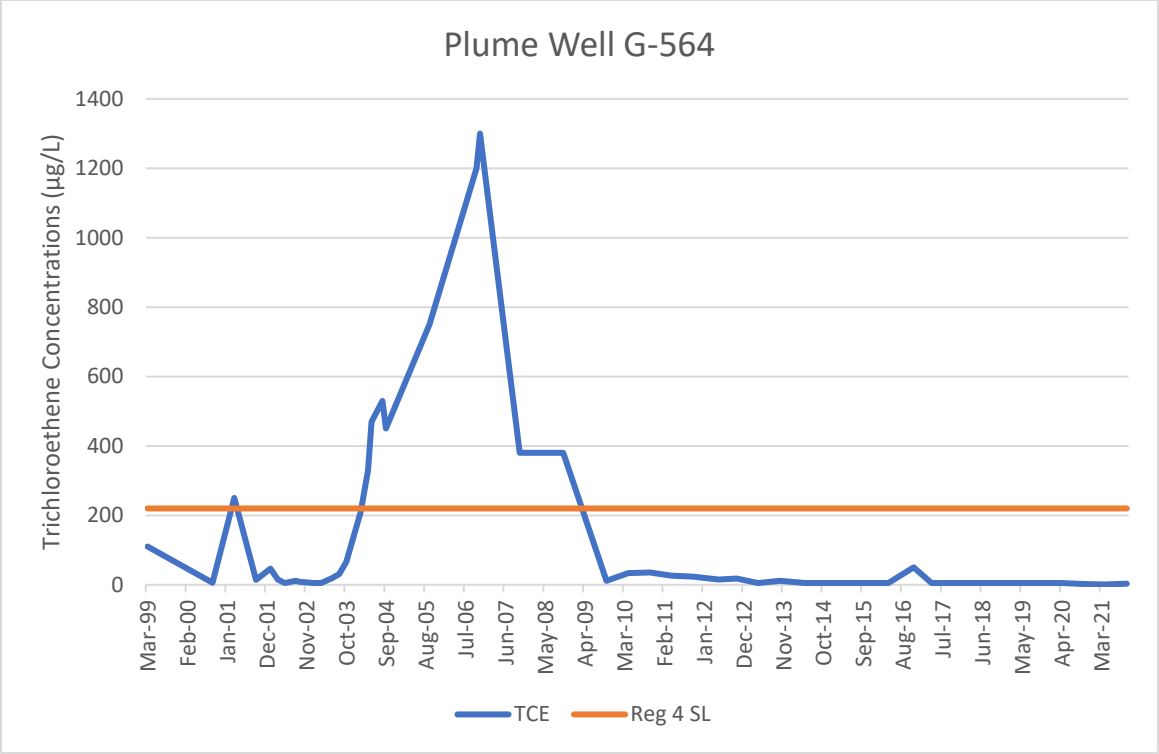


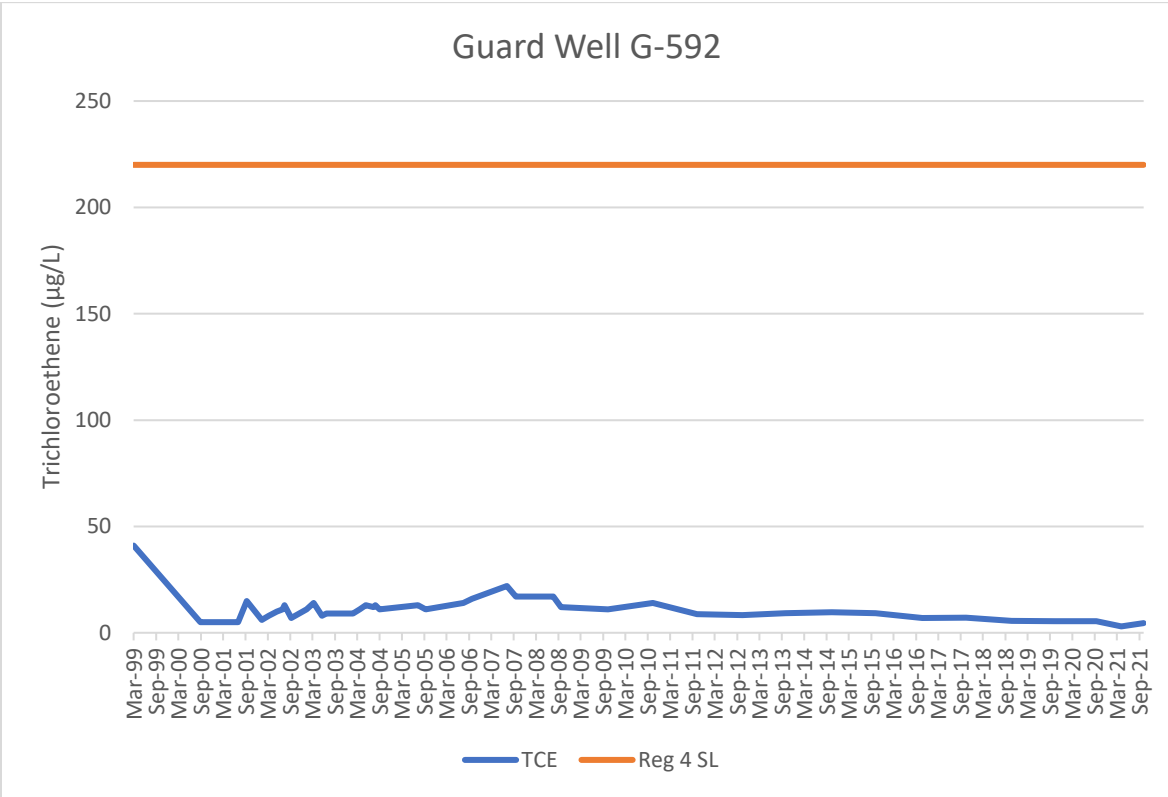
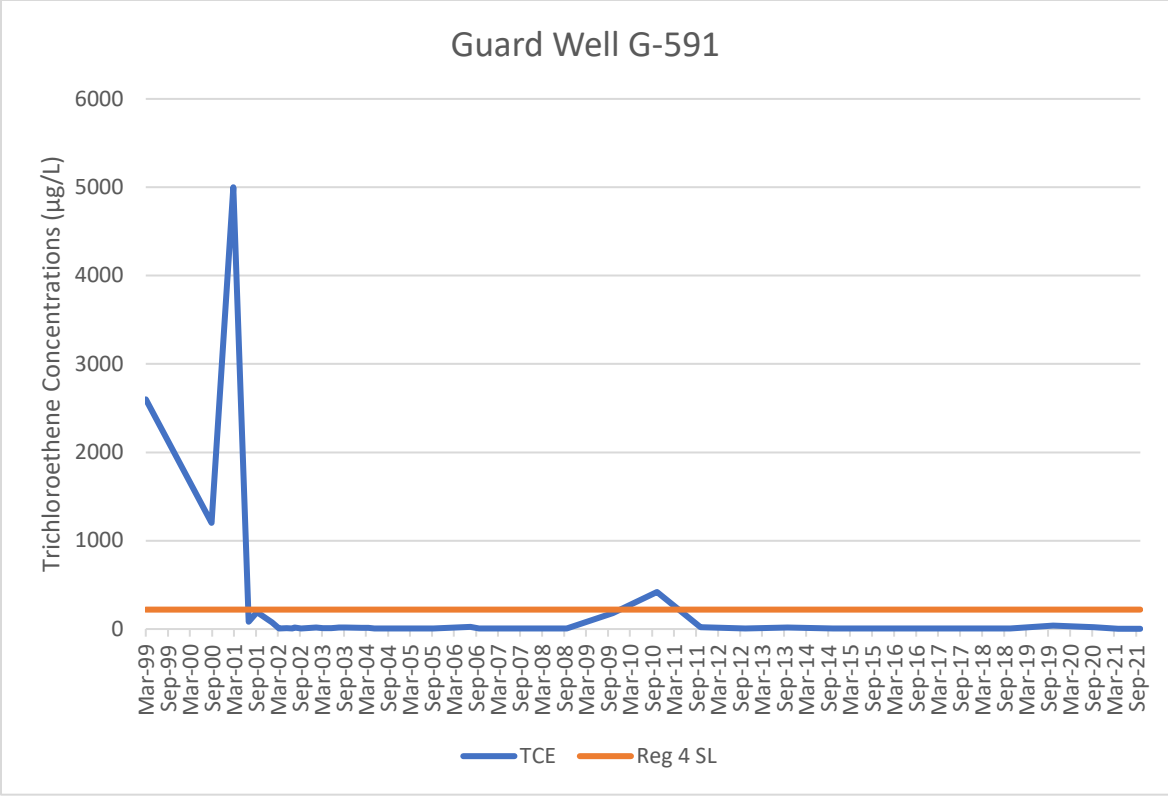


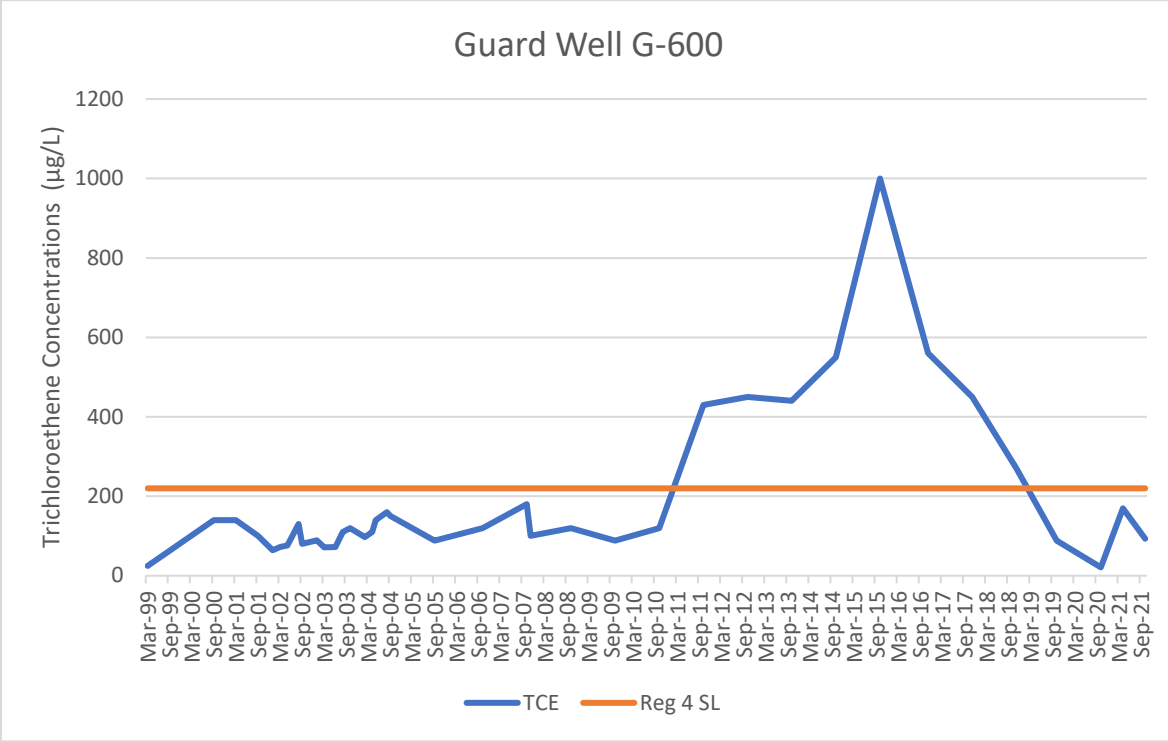
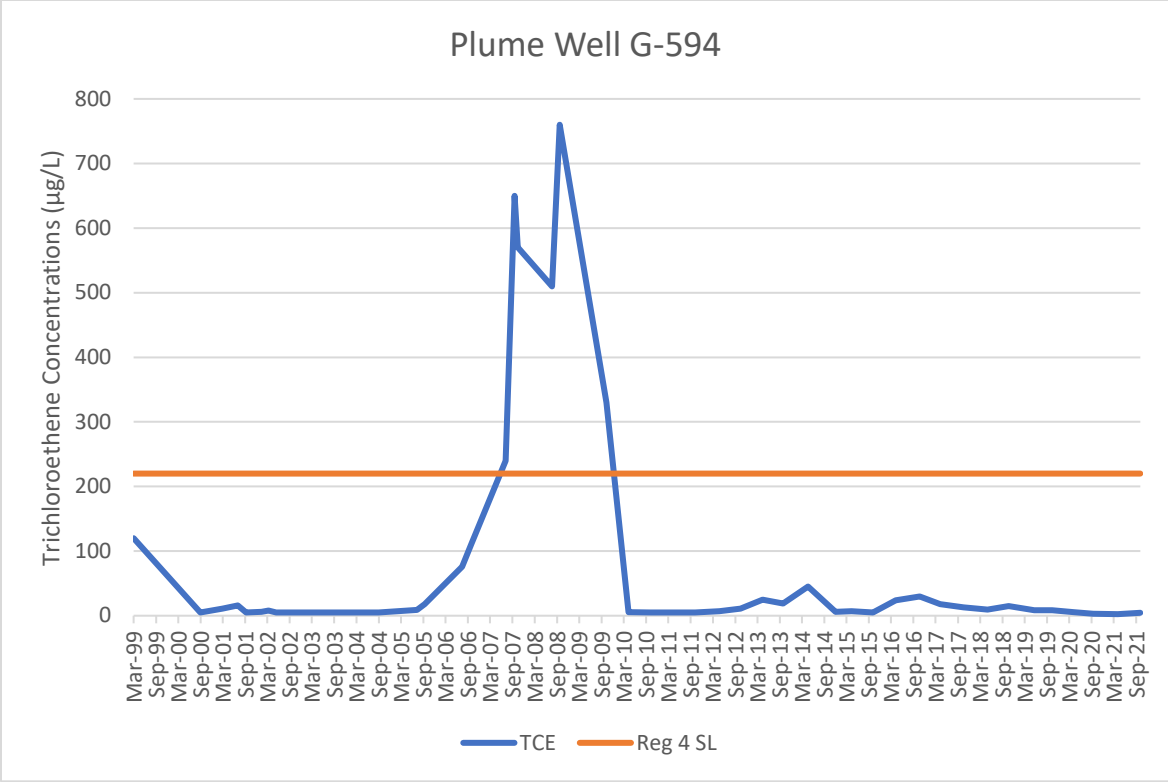


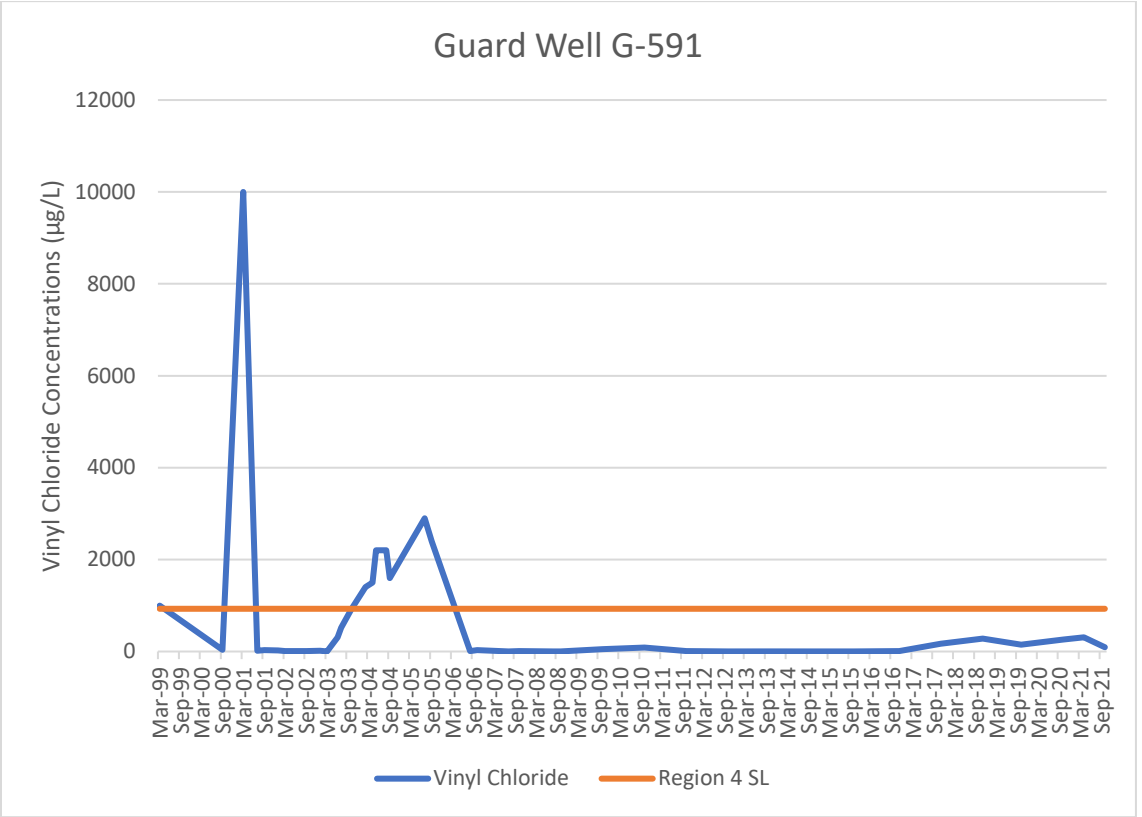
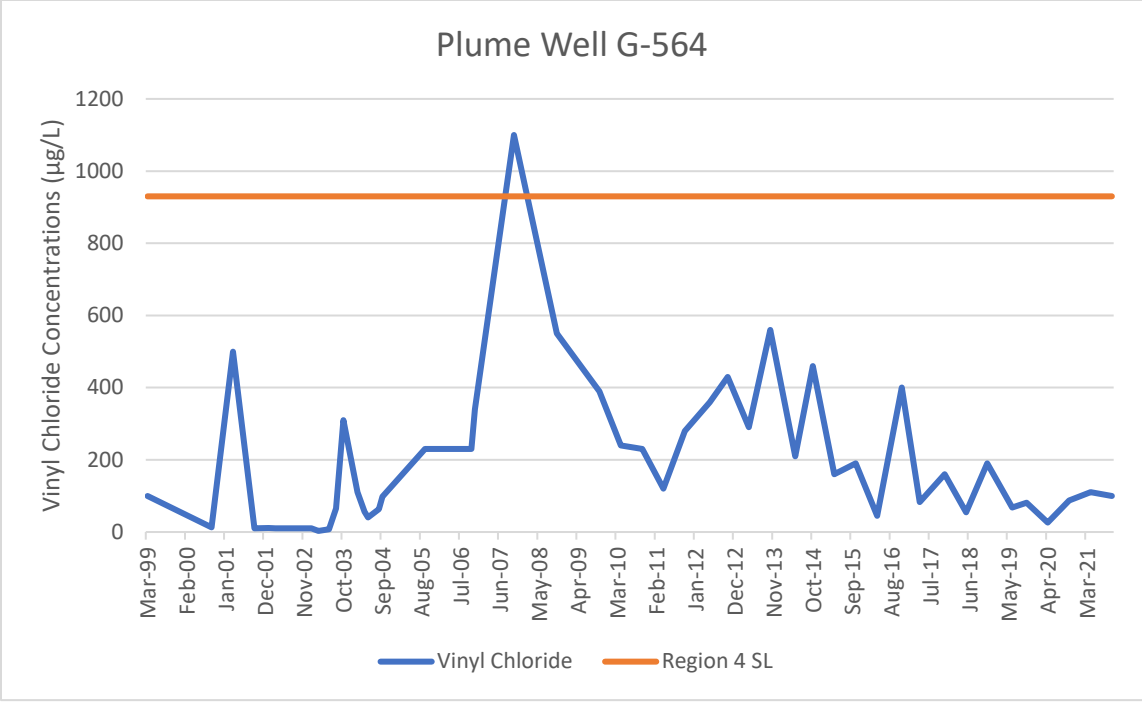








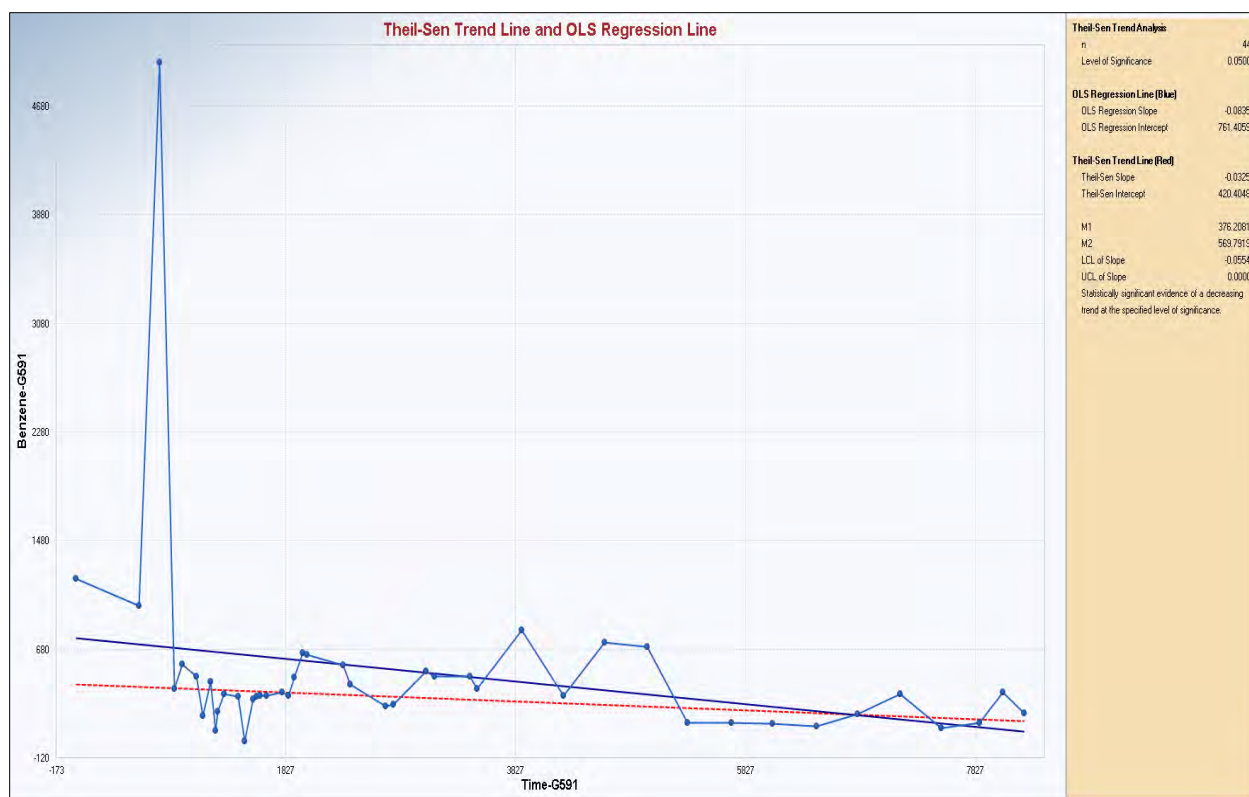




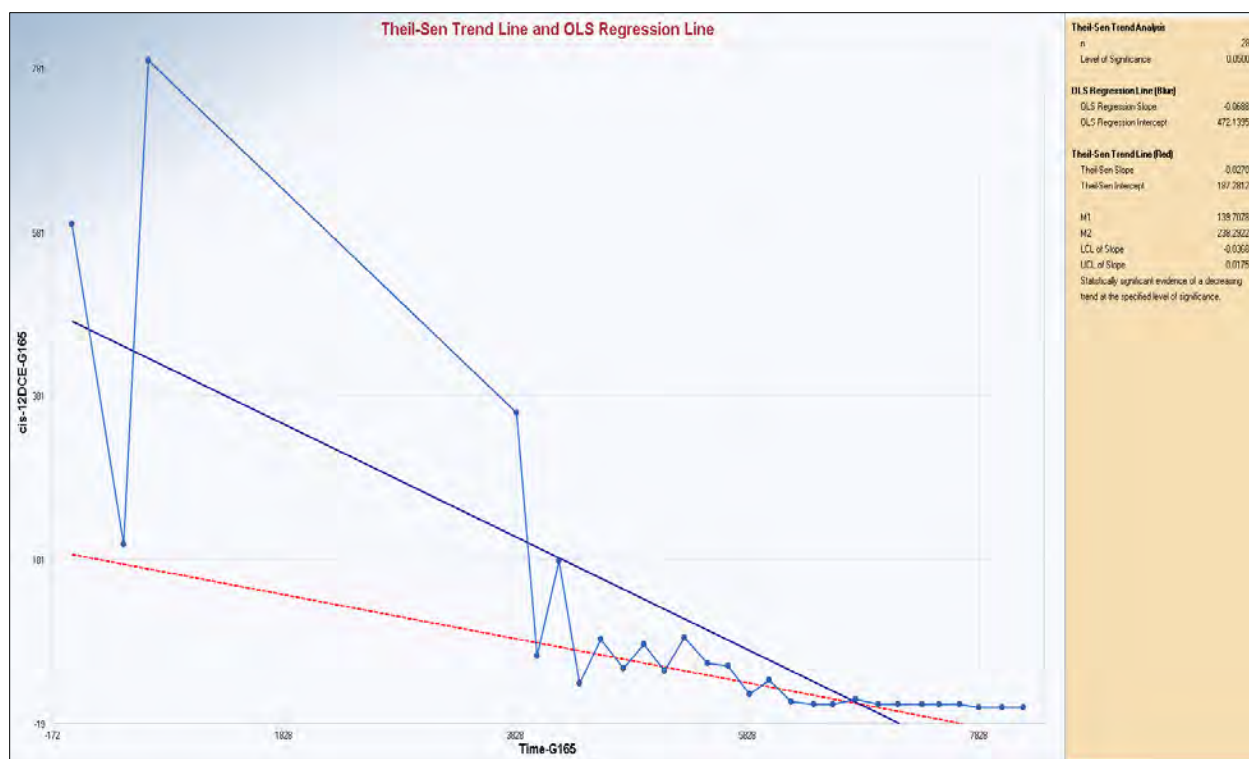
APPENDIX B.2

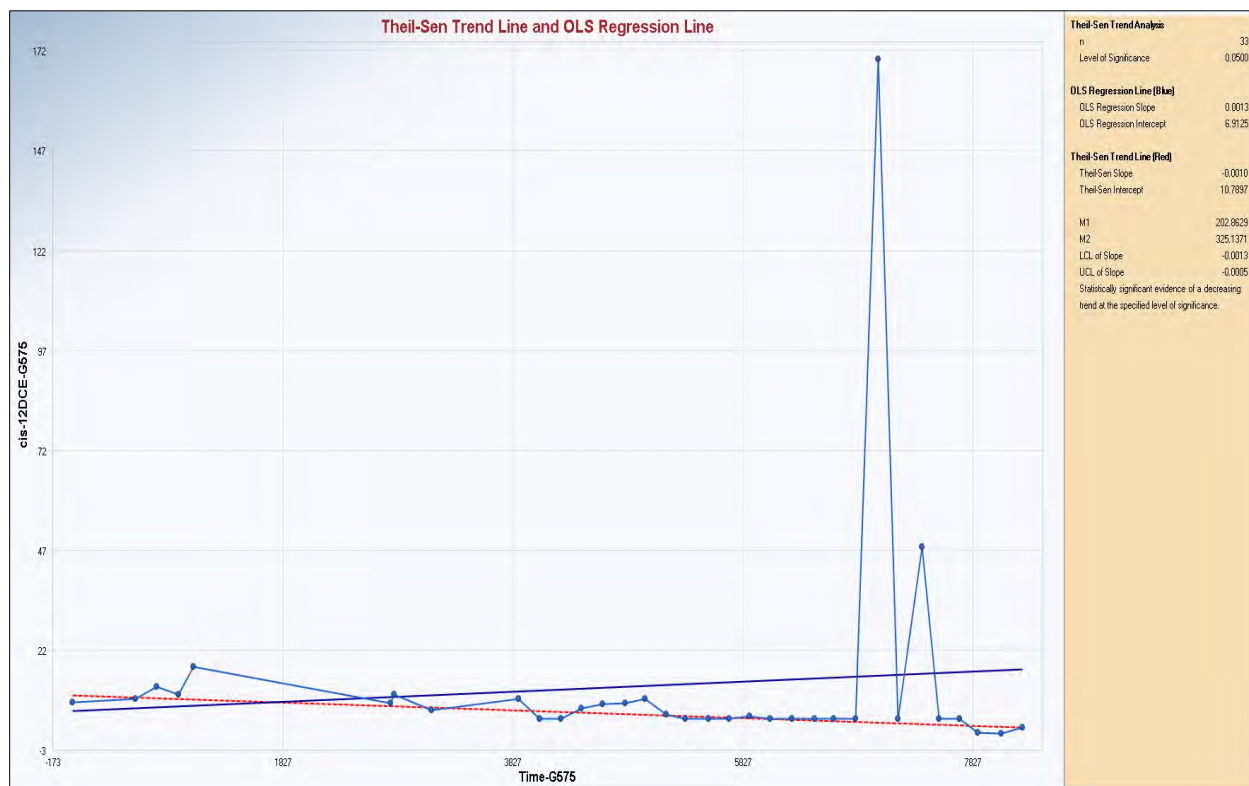
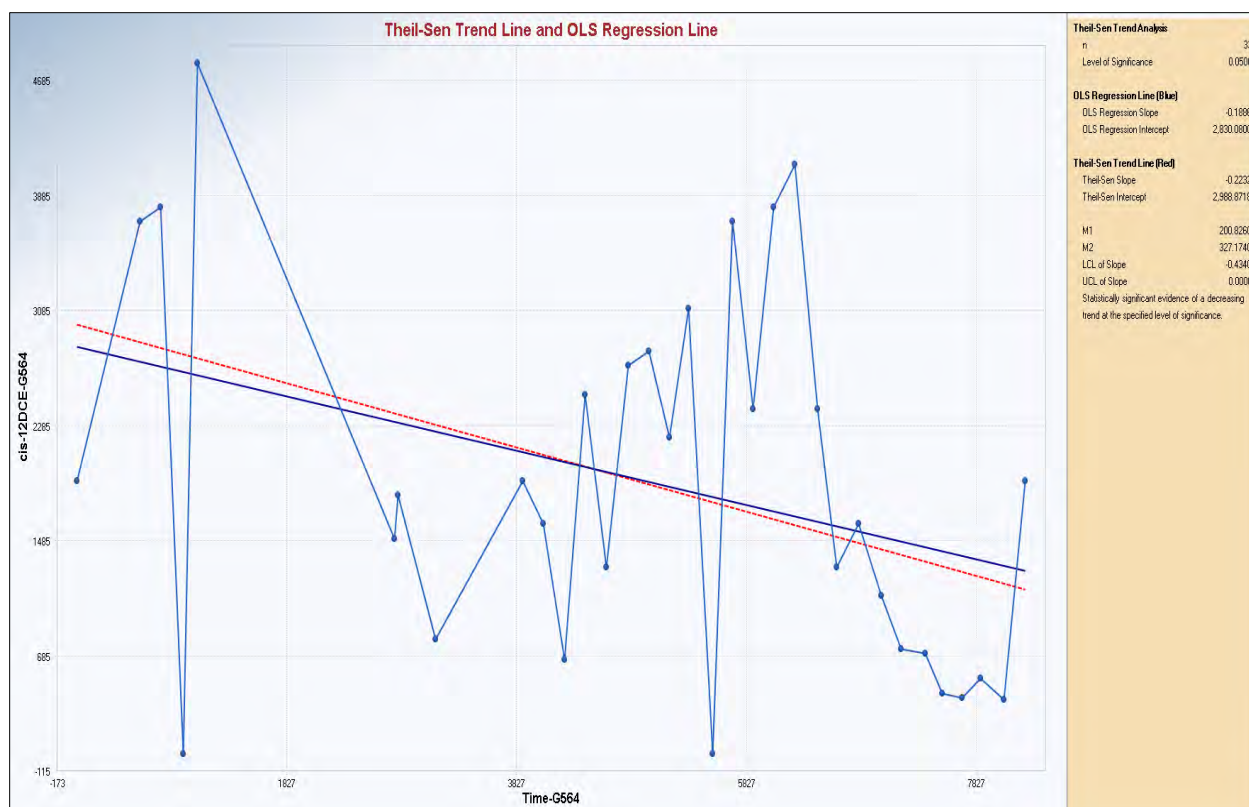
Trend Line Plots

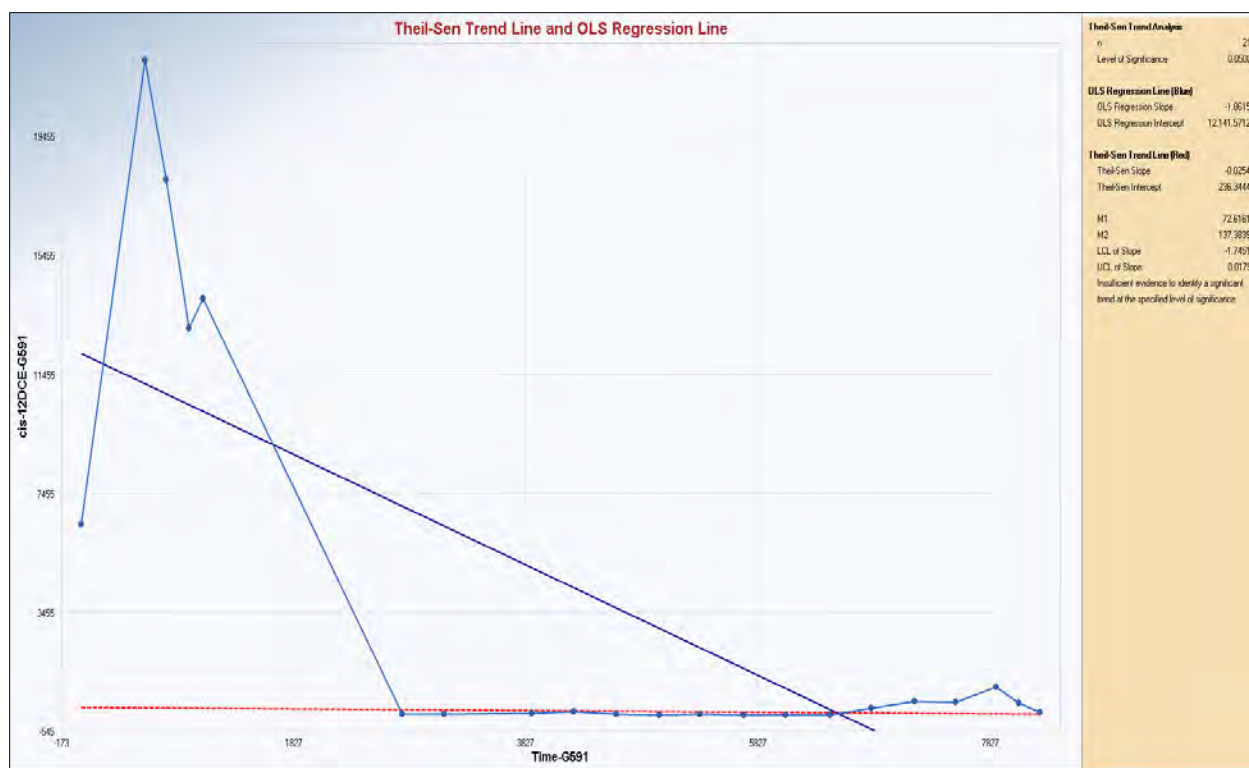


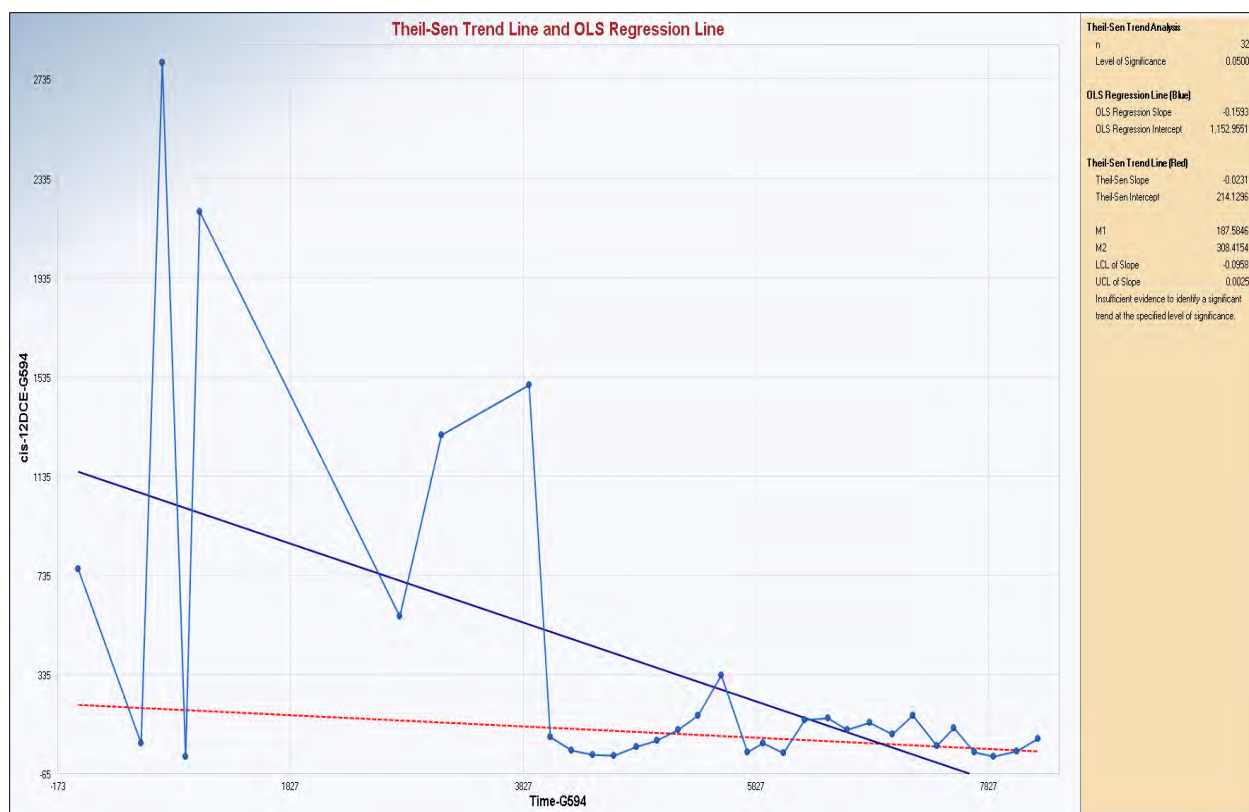




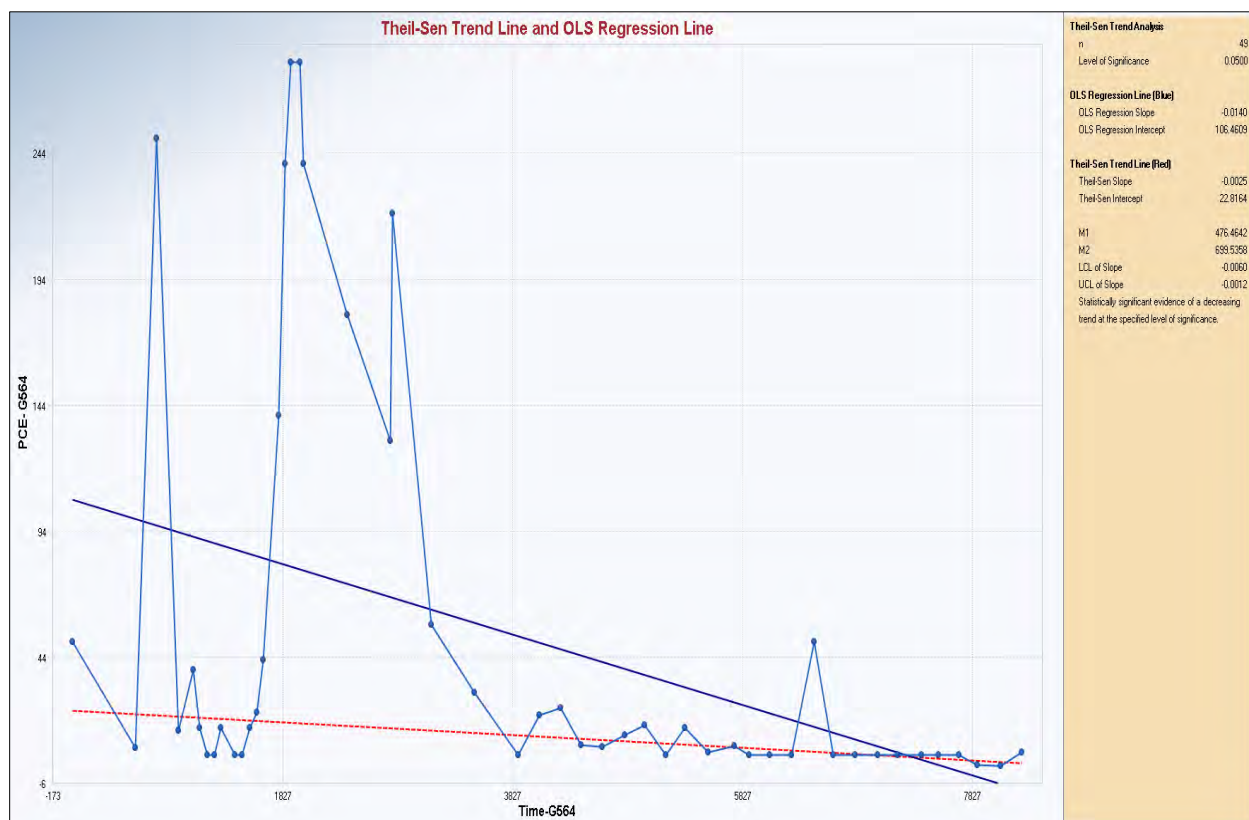


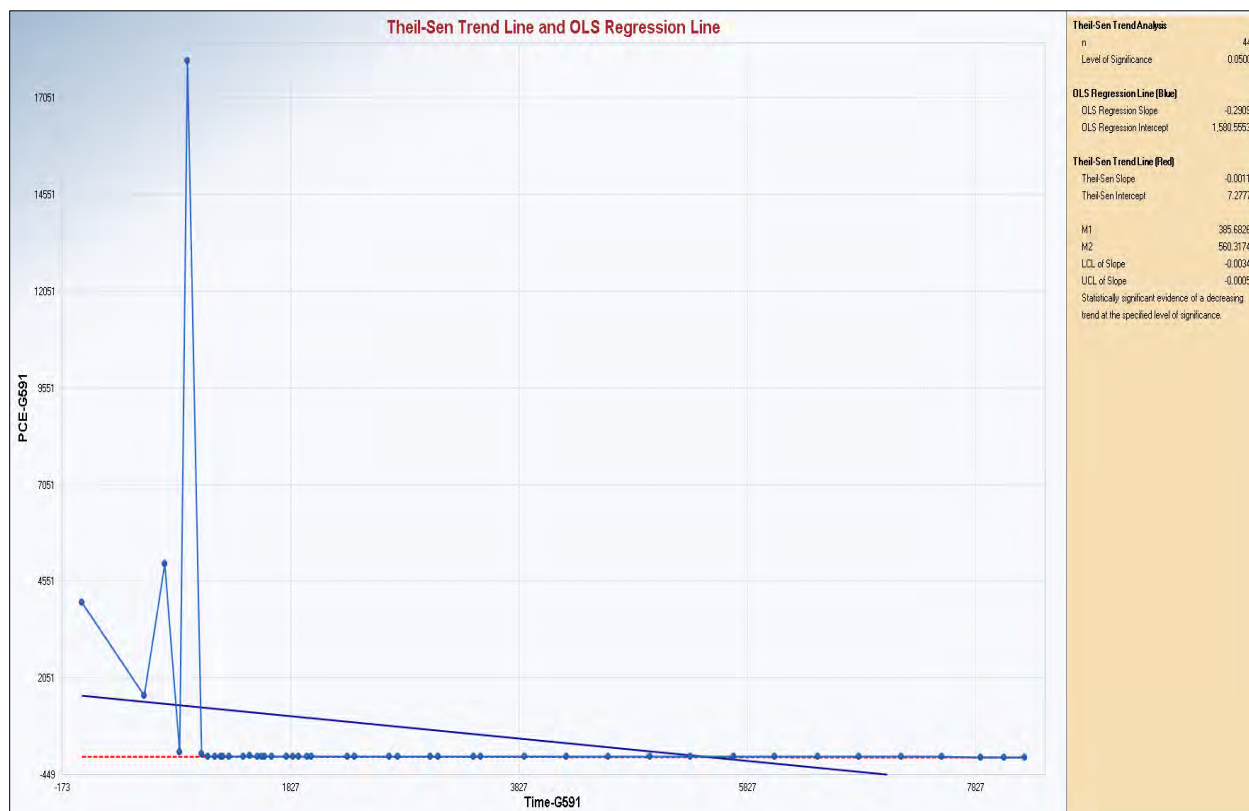
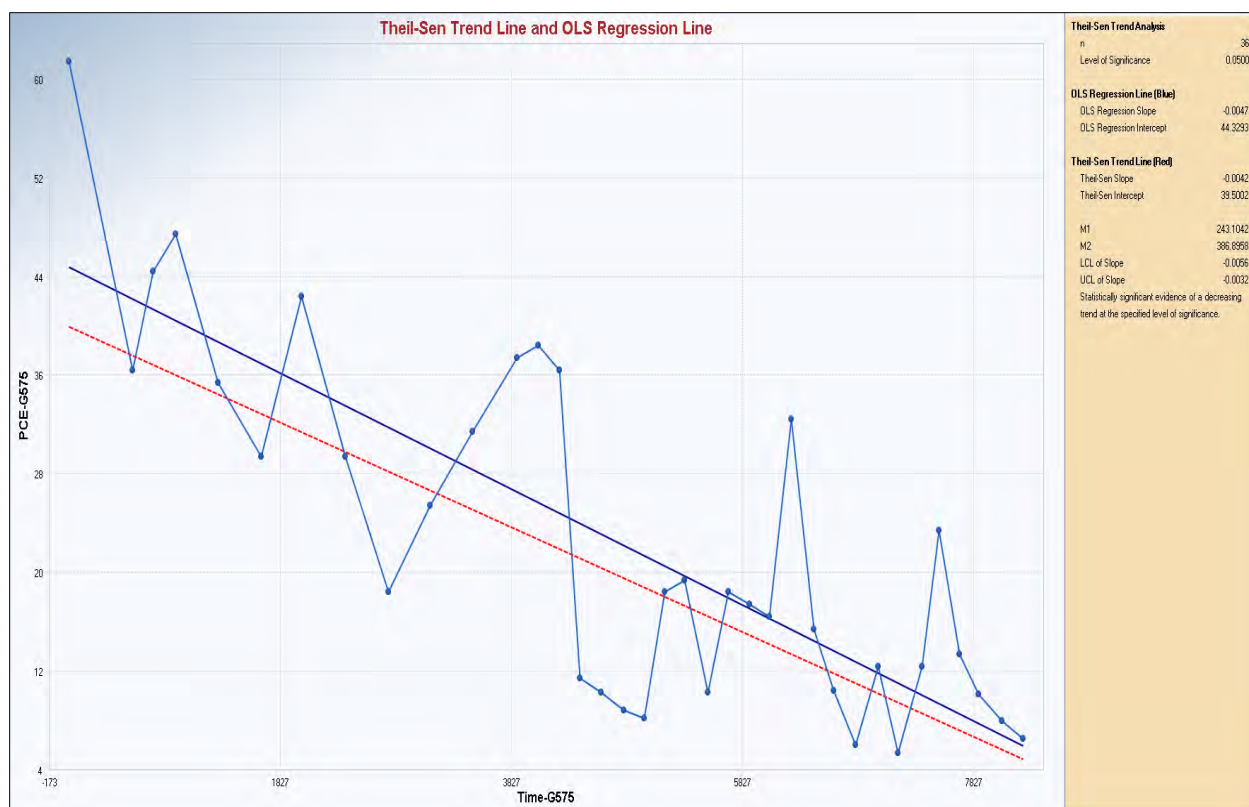


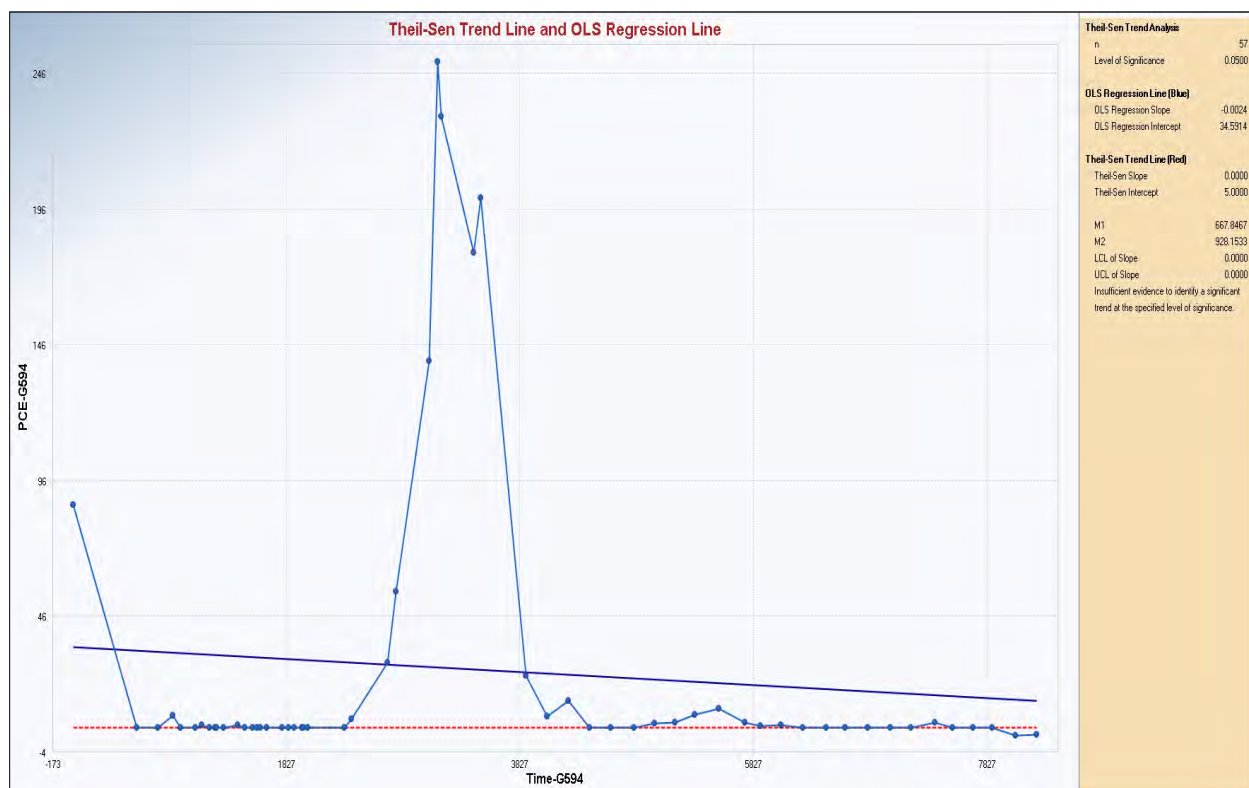




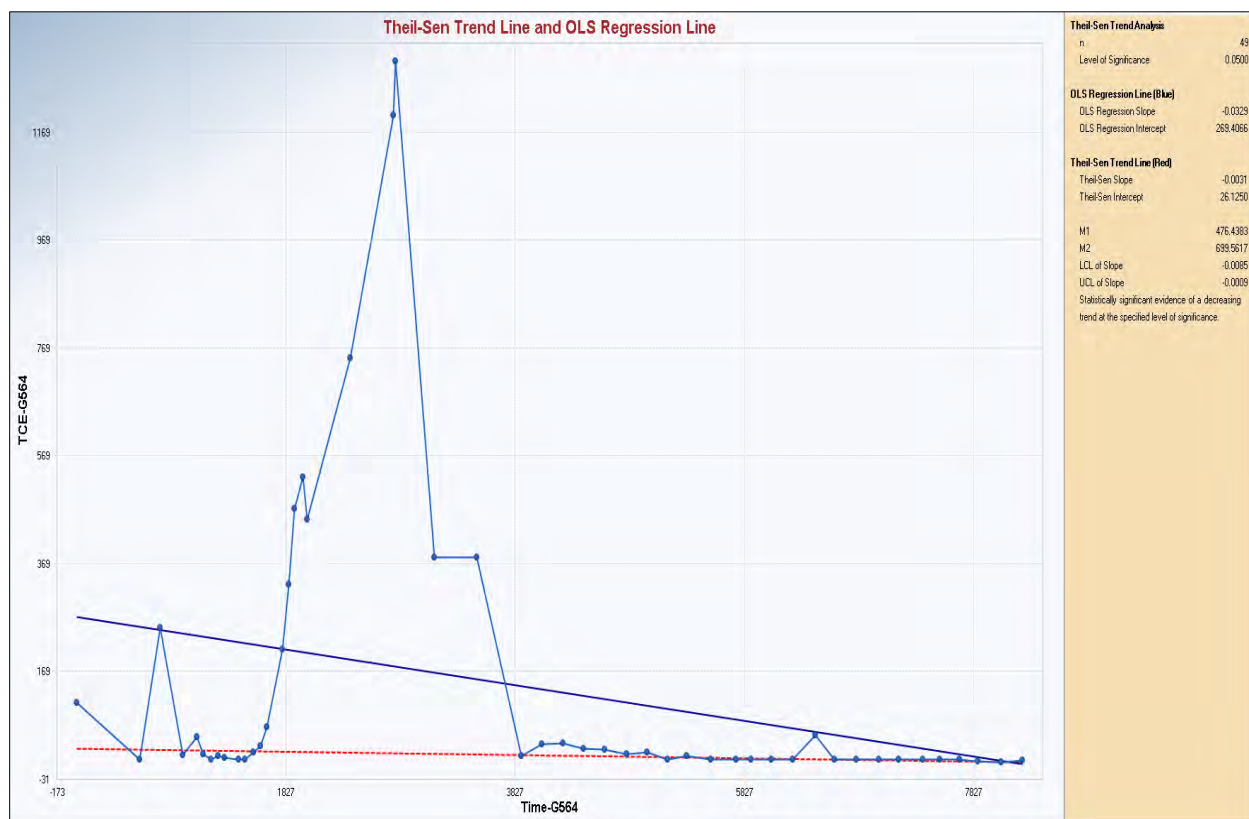


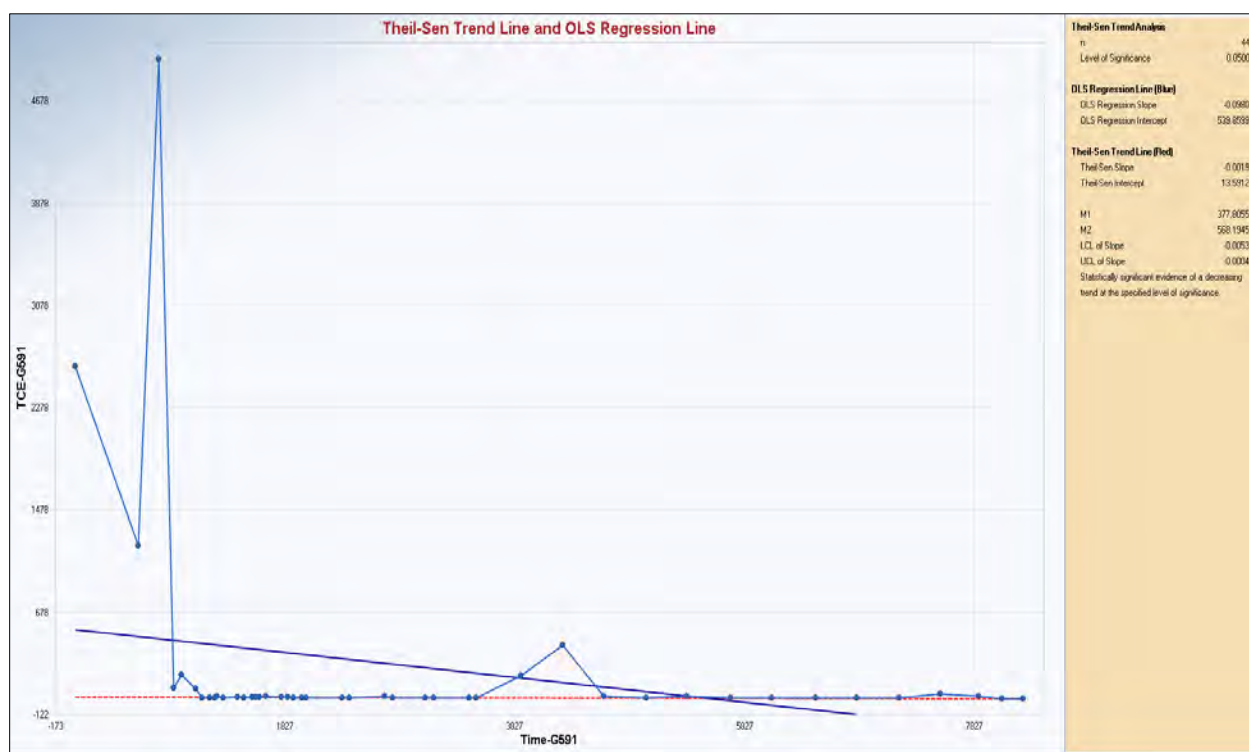
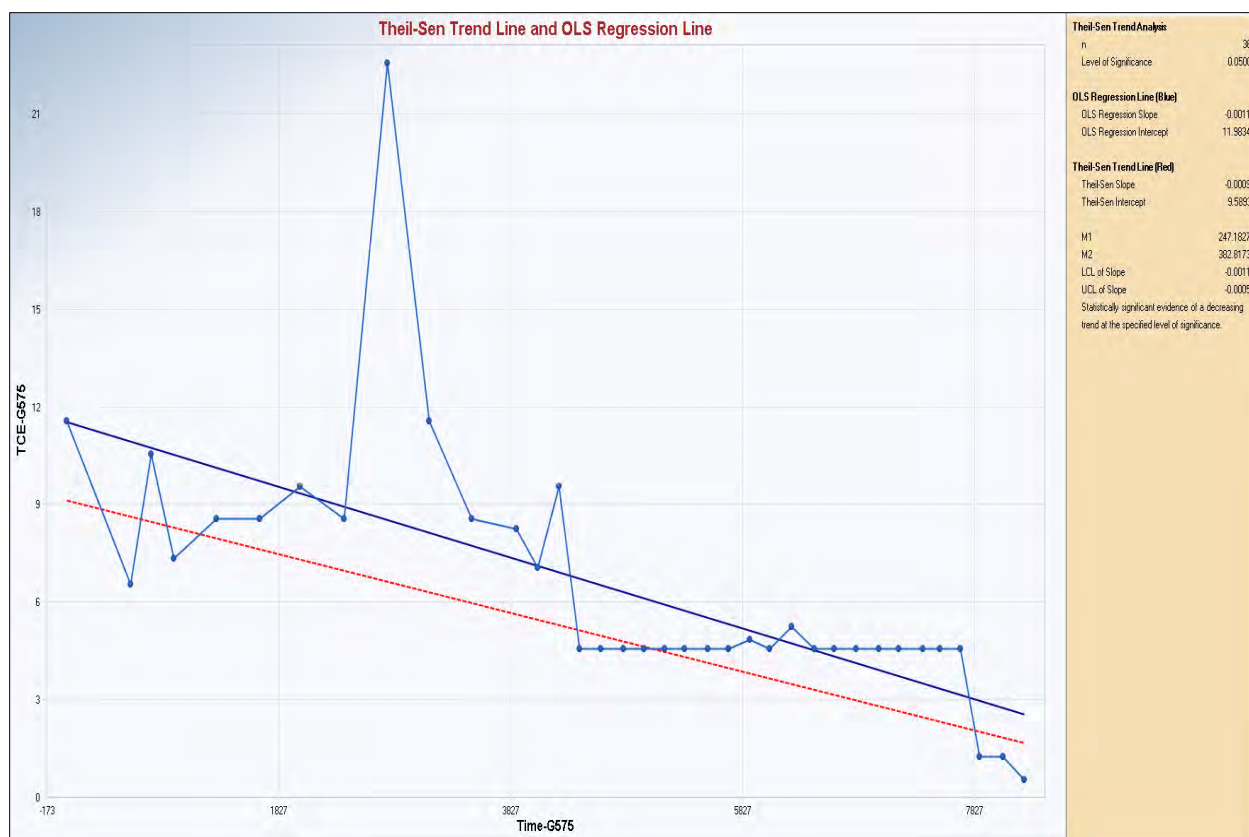


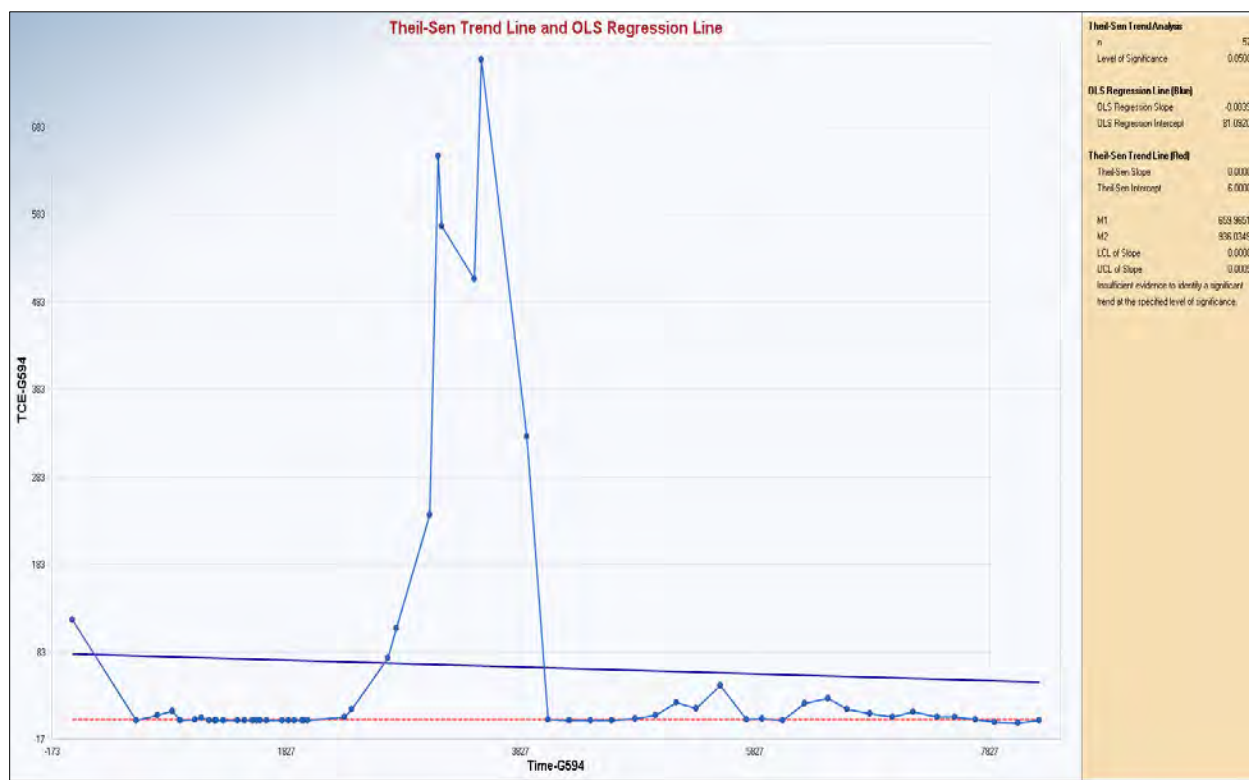


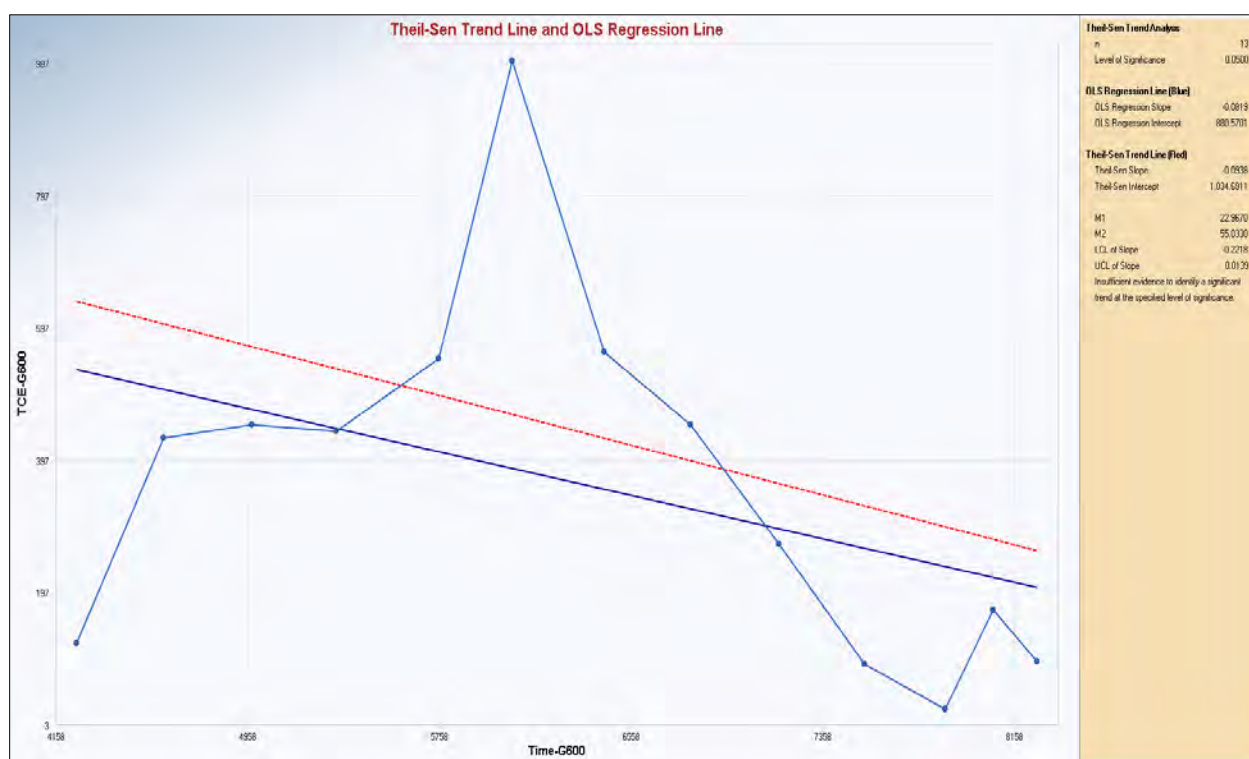












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US Ecology, Sheffield, IL

APPENDIX C

Well Sampling Logs and Elevations

Spring 2021 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-160	734.66	41.06	731.46	0.21	693.60	3.20	2.99
G162	719.56	29.30	716.51	0.06	690.26	3.05	2.99
G591	738.69	41.86	716.47	18.50	696.83	22.22	3.72
G592	738.06	35.66	716.54	18.90	702.40	21.52	2.62
G600	734.55	22.30	714.15	17.78	712.25	20.40	2.62
G-165	739.77	44.66	736.35	0.45	695.11	3.42	2.97
G-166	740.15	71.41	729.55	7.83	668.74	10.60	2.77
G-168	766.41	50.30	736.96	26.89	716.11	29.45	2.56
G547	740.41	44.21	729.11	8.69	696.20	11.30	2.61
G564	741.01	45.93	720.26	16.84	695.08	20.75	3.91
G575	747.72	46.52	719.57	25.50	701.20	28.15	2.65
G594	740.44	41.71	719.84	18.26	698.73	20.60	2.34
G211	726.55	42.60	705.16	18.99	686.51	21.39	2.40
G570	725.21	17.00	720.68	0.63	708.21	4.53	3.90
	Elevation Top of Marker	Elevation to Water	Depth To Water				
S501	702.08	700.48	1.60				

Spring 2021 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-145	778.37	55.47	736.99	37.82	722.90	41.38	3.56
G-186	763.15	33.94	756.57	3.18	729.21	6.58	3.40
G-434	783.92	60.46	751.60	30.40	723.46	32.32	1.92
G-105	756.44	35.38	737.64	15.88	721.06	18.80	2.92
G-154	741.83	60.10	736.41	2.31	681.73	5.42	3.11
G-157	764.11	55.90	737.49	23.24	708.21	26.62	3.38
G-191	764.44	94.20	730.53	31.26	670.24	33.91	2.65
G-193	768.19	89.00	748.57	16.95	679.19	19.62	2.67
RIB-9	723.47	52.29	709.12	11.68	671.18	14.35	2.67
G-167	767.38	63.54	736.26	27.94	703.84	31.12	3.18
G212	713.25	44.09	703.10	7.07	669.16	10.15	3.08
G572	717.39	18.00	704.12	10.58	699.39	13.27	2.69
G573	711.92	21.03	701.77	7.83	690.89	10.15	2.32
G574	709.32	19.70	701.20	5.00	689.62	8.12	3.12
RIB-6	717.97	98.50	701.66	12.81	619.47	16.31	3.50
RIB11	718.06	53.21	703.97	10.88	664.85	14.09	3.21
G142	761.05	29.55	755.86	2.19	731.50	5.19	3.00
G-192	767.08	26.70	756.94	7.38	740.38	10.14	2.76
G148	734.36	34.76	734.26	-1.44	699.60	0.10	1.54
G149	738.93	30.63	736.48	0.45	708.30	2.45	2.00
G155	755.17	49.07	737.02	15.25	706.10	18.15	2.90
G156	758.53	46.13	737.32	18.36	712.40	21.21	2.85

Fall 2021 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-160	734.66	41.06	728.27	3.40	693.60	6.39	2.99
G162	719.56	29.30	714.92	1.65	690.26	4.64	2.99
G591	738.69	41.86	715.69	19.28	696.83	23.00	3.72
G592	738.06	35.66	715.68	19.76	702.40	22.38	2.62
G600	734.55	22.30	713.27	18.66	712.25	21.28	2.62
G-165	739.77	44.66	731.65	5.15	695.11	8.12	2.97
G-166	740.15	71.41	729.37	8.01	668.74	10.78	2.77
G-168	766.41	50.30	735.50	28.35	716.11	30.91	2.56
G547	740.41	44.21	727.81	9.99	696.20	12.60	2.61
G564	741.01	45.93	719.65	17.45	695.08	21.36	3.91
G575	747.72	46.52	718.90	26.17	701.20	28.82	2.65
G594	740.44	41.71	719.12	18.98	698.73	21.32	2.34
G211	726.55	42.60	704.76	19.39	686.51	21.79	2.40
G570	725.21	17.00	719.62	1.69	708.21	5.59	3.90
	Elevation Top of Marker	Elevation to Water	Depth To Water				
S501	702.08	700.48	1.60				

Fall 2021 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-145	778.37	55.47	736.80	38.01	722.90	41.57	3.56
G-186	763.15	33.94	754.66	5.09	729.21	8.49	3.40
G-434	783.92	60.46	749.72	32.28	723.46	34.20	1.92
G-105	756.44	35.38	737.50	16.02	721.06	18.94	2.92
G-154	741.83	60.10	734.67	4.05	681.73	7.16	3.11
G-157	764.11	55.90	735.52	25.21	708.21	28.59	3.38
G-191	764.44	94.20	730.25	31.54	670.24	34.19	2.65
G-193	768.19	89.00	746.40	19.12	679.19	21.79	2.67
RIB-9	723.47	52.29	707.26	13.54	671.18	16.21	2.67
G-167	767.38	63.54	734.23	29.97	703.84	33.15	3.18
G212	713.25	44.09	702.25	7.92	669.16	11.00	3.08
G572	717.39	18.00	703.19	11.51	699.39	14.20	2.69
G573	711.92	21.03	700.07	9.53	690.89	11.85	2.32
G574	709.32	19.70	700.62	5.58	689.62	8.70	3.12
RIB-6	717.97	98.50	702.27	12.20	619.47	15.70	3.50
RIB11	718.06	53.21	703.06	11.79	664.85	15.00	3.21
G142	761.05	29.55	752.14	5.91	731.50	8.91	3.00
G-192	767.08	26.70	751.78	12.54	740.38	15.30	2.76
G148	734.36	34.76	733.18	-0.36	699.60	1.18	1.54
G149	738.93	30.63	734.94	1.99	708.30	3.99	2.00
G155	755.17	49.07	735.17	17.10	706.10	20.00	2.90
G156	758.53	46.13	735.43	20.25	712.40	23.10	2.85

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US Ecology, Sheffield, IL

APPENDIX D

Leachate Management

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

APPENDIX D.1

Leachate Collection Volume

Leachate Totals

US Ecology Sheffield, Illinois Facility

Year	Amount of Leachate Pumped Gallons	Total Rainfall (inches) for the Year
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1982	15,371	
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1983	10,643	
------	--------	--

1984	9,842	
------	-------	--

1985	3,747	
------	-------	--

1986	3,192	
------	-------	--

1987	1,137	
------	-------	--

1988	1,541	
------	-------	--

1989	2,180	
------	-------	--

1990	2,304	
------	-------	--

1991	2,600	
------	-------	--

1992	4,835	
------	-------	--

1993	3,245	
------	-------	--

1994	3,800	
------	-------	--

1995	2,390	32.14
------	-------	-------

1996	2,133	30.62
------	-------	-------

1997	1,268	31.93
------	-------	-------

1998	1,123	45.73
------	-------	-------

1999	1,793	43.47
------	-------	-------

2000	1,980	37.10
------	-------	-------

2001	2,595	36.70
------	-------	-------

2002	1,715	35.97
------	-------	-------

2003	980	35.24
------	-----	-------

2004	1,080	34.44
------	-------	-------

2005	900	19.84
------	-----	-------

2006	990	37.11
------	-----	-------

2007	1,180	36.75
------	-------	-------

2008	1,550	49.20
------	-------	-------

2009	3,920	53.25
------	-------	-------

2010	2,580	34.25
------	-------	-------

2011	1,520	42.40
------	-------	-------

2012	1,280	28.97
------	-------	-------

2013	1,050	44.64
------	-------	-------

2014	1,000	43.47
------	-------	-------

2015	1,750	38.68
------	-------	-------

2016	3,223	39.87
------	-------	-------

2017	2,615	42.33
------	-------	-------

2018	3,611	49.15
------	-------	-------

2019	3686	41.92
------	------	-------

2020	3528	36.89
------	------	-------

2021	3591	44.06
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Total	119,468	
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Sump pumping was stopped early because of the RIFS and groundwater well installation

Long-term Stewardship Program 2021 Annual Report

US Ecology, Sheffield, IL

APPENDIX D.2

Leachate Manifest

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number ILD 04-506-3450	2. Page 1 of 1	3. Emergency Response Phone 309-854-1096	4. Manifest Tracking Number 007910528 FLE
----------------------------------	---	----------------	---	--

5. Generator's Name and Mailing Address US Ecology Illinois, Inc. PO Box 206, Sheffield, IL 61361 Generator's Phone: 815-454-2342	Generator's Site Address (if different than mailing address) 13279-350 E Street Sheffield, IL 61361
--	---

6. Transporter 1 Company Name S.E.T. Environmental, Inc.	U.S. EPA ID Number ILD 981951236
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address Veolia Hwy. 73, 3.5 miles West of Taylor Bayou Port Arthur, TX 77640 (409) 736-2821 Facility's Phone: TXD 008 38896	U.S. EPA ID Number
--	--------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1. R	NA 3082 Hazardous Waste Liquid N.O.S. (Leachate) 9 PGIII (F039)	14	TP	3659	G	F039	outs 3198
2.							
3.							
4.							

14. Special Handling Instructions and Additional Information 1. 479 275 out of service Date 10-8-2021
--

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name Doug Long	Signature Doug Long	Month Day Year 10/14/2021
---	------------------------	------------------------------

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name ROBERT MUNCH	Signature [Signature]	10/14/21
Transporter 2 Printed/Typed Name	Signature	

18. Discrepancy	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
-----------------	--

Manifest Reference Number:	U.S. EPA ID Number
----------------------------	--------------------

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
--	--------------------

Facility's Phone:	Month Day Year
18c. Signature of Alternate Facility (or Generator)	

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	1. H010	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a	Signature Kelma Carpenter	Month Day Year 10/19/21
Printed/Typed Name Kelma Carpenter		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number ILD 04-506-3450		2. Page 1 of 1		3. Emergency Response Phone 309-854-1096		4. Manifest Tracking Number 007910527 FLE	
		5. Generator's Name and Mailing Address US Ecology Illinois, Inc. PO Box 206 Sheffield, IL 61361 (815) 454-2342		Generator's Site Address (if different than mailing address) 13279-300 E Street Sheffield, IL 61361					
6. Transporter 1 Company Name S.E.T. Environmental Inc.		U.S. EPA ID Number ILD 961957230		7. Transporter 2 Company Name EQ Industrial Services		U.S. EPA ID Number TX 0061457340		U.S. EPA ID Number	
8. Designated Facility Name and Site Address US Ecology Texas 3277 County Road 69, Robstown, TX 78380 Facility's Phone: (361) 387-3518		U.S. EPA ID Number TX 0061457340		U.S. EPA ID Number		U.S. EPA ID Number		U.S. EPA ID Number	
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
					No.	Type			
	R/Q	1. NA 3077 Hazardous Waste N.O.S. (PCB) Solid PG III (F039)			1	DM	127.2	K	FL39 OUTS 002H
		2.							
		3.							
	4.								
14. Special Handling Instructions and Additional Information 1. 090070093-0 2. OUTS 002H OUT OF SERVICE DATE: 10-8-2021									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name Doug Long Signature Doug Long Month 10 Day 14 Year 2021									
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name ROBERT MUNCH Signature Robert Munch Month 10 Day 14 Year 21									
Transporter 2 Printed/Typed Name Kurt E. ... Signature Kurt E. ... Month 10 Day 14 Year 21									
18. Discrepancy									
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H111 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Arion Zamora Signature Arion Zamora Month 11 Day 10 Year 21									