

# Voluntary Remediation Program Seventh Progress Report

Roper Pump Company  
HSI No. 10901  
Commerce, Georgia

*Prepared for:*

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Responsive partner.  
Exceptional outcomes.

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## PG Certification

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors or the Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long-term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

  
\_\_\_\_\_  
Daniel J. Hunt, P.G.

October 31, 2018



Registration No. 2166  
State of Georgia

# 1.0 Introduction

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The Roper Pump Company ("Roper") facility is located at 3475 Old Maysville Road in Commerce, Jackson County, Georgia (HSI Site No. 10901) ("Site"). The Site location is shown on **Figure 1**. The Voluntary Remediation Program ("VRP") Application was submitted to the Georgia Environmental Protection Division ("EPD") on December 18, 2014. EPD approved the VRP Application in a letter dated April 13, 2015. This Seventh VRP Progress Report provides a summary of activities conducted from April 1, 2018 through October 31, 2018 ("Report Period").

## 1.1 HISTORICAL ACTIVITIES

The Roper Pump Company manufactures gear pumps, progressive cavity pumps, flow dividers, and power sections for clients in the energy, transportation, and food and beverage industries. In May 2009 during construction activities associated with a facility building expansion, soil and groundwater adjacent to an abandoned storm sewer line were found to have elevated concentrations of volatile organic compounds ("VOCs"), primarily tetrachloroethene ("PCE") and trichloroethene ("TCE"). A Release Notification was submitted to the EPD pursuant to the Hazardous Site Response Act ("HSRA") on July 13, 2009. The facility was listed on the Georgia Hazardous Site Inventory ("HSI") on November 23, 2009 as HSI No. 10901 for releases of 1,1,2-trichloroethane ("1,1,2-TCA") to soil and groundwater above a reportable quantity. Other contaminants documented in groundwater included 1,1,2,2-tetrachloroethane, 1,1-dichloroethene, chloroform, cis-1,2-dichloroethene ("cis-DCE"), PCE, TCE, benzene, methyl ethyl ketone, and trans-1,2-dichloroethene ("1,2-DCE").

In addition to conducting extensive on-Site and off-Site characterization, the Company has undertaken significant corrective actions over the years, including the following: excavation of contaminated soil; installation and operation of an SVE system (which has since been closed); installation of a 60 mil HDPE vapor barrier beneath the office portion of the building expansion; and injection of Bioavailable Absorbent Media ("BAM").

## 1.2 SITE GEOLOGY AND HYDROGEOLOGY

The Site is in the Piedmont Physiographic Province of Georgia. Soils in the Piedmont are derived through weathering of the underlying metamorphic rocks, predominantly composed of gneisses and schists. According to the December 2014 VIRP, the Natural Resources Conservation Service ("NRSC") Soil Survey described the Site as being composed of predominantly Cecil sandy loam developed primarily from fine to coarse grained gneisses followed by hornblende and tale schists.

The Piedmont Province typically consists of crystalline bedrock with discontinuous fractures containing water, which are hydraulically connected to the saprolite (weathered bedrock and soil or residuum) above. The degree of fracturing and size of the fracture apertures (openings) tends to decrease with depth.

Groundwater in the Piedmont Province occurs under unconfined conditions where the potentiometric surface mimics the ground surface topography. Along topographically low areas, the water table typically occurs within soil and saprolite of the hydrogeological

profile. Along topographically high areas, the water table often occurs in underlying crystalline bedrock. The saprolite-bedrock aquifer is recharged by rainfall and discharges into streams in valley bottoms. The saprolite stores and transmits water in the pore spaces between the soils (clays, silts, and sands) that comprise the saprolite. The saprolite has a much higher storage capacity but lower transmissivity than the underlying bedrock. The bedrock stores and transmits water through secondary porosity features (fractures, joints, and faults). The bedrock can transmit very large volumes of water; the transmissivity depends on the density and orientation of the secondary porosity features. Based on the local topography around the Site and available site information, shallow groundwater generally flows in an easterly direction.

## 2.0 Summary of Site Activities

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During this Report Period, Roper conducted the following activities:

- ▲ Obtain and analyze an Environmental Database Resources report ("EDR") to identify potential off-Site sources (July 2018);
- ▲ Reinstall well MW-4 that was damaged during previous injections (July 2018);
- ▲ Install wells MW-8I and MW-19I for additional groundwater delineation;
- ▲ Install six injection wells;
- ▲ Conduct BAM post-injection monitoring (April through June 2018);
- ▲ Inject emulsified oil in a number of injection wells (October 2018);
- ▲ Perform slug testing of shallow and deep groundwater wells (September 2018); and,
- ▲ Conduct full-scale groundwater sampling (July 2018).

These activities are further summarized below.

### 2.1 ENVIRONMENTAL DATABASE REPORT

As part of the conceptual site model ("CSM") refinement, Wenck ordered an EDR for the Site and analyzed the results to determine if nearby facilities reported listings and whether the listings could be associated with detections of PCE and TCE at off-site monitoring well MW-17. The EDR report is attached in **Appendix A**. The Site itself was listed on several databases. Additionally, two facilities located north of the Site were also listed:

- 1) Baker & Taylor Books, located at 251 Mount Olive Church Road. This facility was listed as a Resource and Conservation Recovery Act ("RCRA") Small Quantity Generator, appears on the Enforcement and Compliance History Information ("ECHO") database report, and was also listed on the Integrated Compliance Information System ("ICIS") and Facility Index System/Facility Registry System ("FINDS") database report. The facility is reported as managing PCE (D039) as a small quantity generator. They had RCRA violations were reported in 1997; however, they have the facility has only had two inspections since that time (2002 and 2009). The facility was also noted to have received a formal administrative violation. Based on the location of this facility and the constituents used, this facility is a potential off-site source to groundwater conditions at MW-17.
- 2) Troy Construction, located at 260 Mount Olive Church Road. This facility was listed on the RCRA Small Quantity Generator database. The listing was for handling ignitable hazardous waste (D001) (i.e. lacquer thinner). Based on the location of this facility and the constituents used, this facility is not considered a potential off-site source at this time.

Based on these findings, Wenck determined that potential off-site sources of PCE exist. Therefore, additional off-Site wells were installed at a similar elevation to MW-17 to provide empirical data to demonstrate the detections at MW-17 are not attributed to Roper (See Section 2.2).

### 2.2 INSTALLATION OF MONITORING WELLS

MW-4 was damaged or blocked during the BAM injection activities in December 2017. Monitoring well MW-4I was installed on July 17, 2018 to replace MW-4. The well location is shown on **Figure 2**.

The monitoring well was constructed with threaded, two-inch diameter PVC with 10 feet of 0.01 slotted screen installed from 40 to 50 feet below ground surface ("bgs"). MW-4I was constructed at a depth greater than MW-4 to facilitate our conceptual site model in this portion of the Site. The top of casing elevation and northing and easting has not yet been surveyed for the new monitoring well. A summary of Site monitoring well construction details is provided in **Table 1**. Boring logs and well construction diagrams are provided in **Appendix B**.

In addition to reinstalling MW-4, additional information was needed to determine if VOC detections in groundwater at off-Site monitoring well MW-17 is attributed to Roper Pump Company, or from other nearby sources. Because off-site wells MW-8 and MW-19 are screened in the shallow zone, Wenck installed two monitoring wells near MW-19 and MW-8 to evaluate potential VOC contamination in the deeper aquifer.

Monitoring wells MW-8I and MW-19I were installed on October 2, 2018. The well locations are shown on **Figure 2**. The monitoring wells were constructed with threaded, two-inch diameter PVC with 10 feet of 0.01 slotted screen installed from 40 to 50 feet below ground surface ("bgs"). The top of casing elevation and northing and easting was surveyed for MW-4I, MW-8I and MW-19I by a licensed Georgia surveyor. A summary of Site monitoring well construction details is provided in **Table 1**. Boring logs and well construction diagrams are provided in **Appendix B**.

### **2.3 INJECTION WELL INSTALLATION**

Shallow aquifer treatment was performed during previous reporting periods; however, additional injections were performed to treat groundwater in the lower portions of the aquifer in October 2018. To facilitate this, Wenck installed injection wells in the shallow and deep groundwater zones near the northern property boundary at the Site. Based on the site geology and hydrogeology, six (6) injection wells were installed in the MW-4 area. Two of the injection wells were screened in the shallow groundwater zone from 40-60 ft bgs and four injection wells were screened in the deep groundwater zone from 60-80 ft bgs. Due to site conditions, not all deep injection wells were advanced to the full depth. These injection wells were constructed of PVC and have 20 ft of 0.02 slotted screen with #3 sand filter pack.

### **2.4 POST-INJECTION MONITORING AND GROUNDWATER SAMPLING**

Wenck began post-injection monitoring events in January 2018. The January 2018 through March 2018 post-injection monitoring events are documented in the Sixth Progress Report. During the Reporting Period, Wenck conducted post-injection monitoring events in April, May, and June. Wenck collected water level measurements, post-injection field parameter readings, and groundwater samples for target VOC parameter analyses from five (5) select monitoring wells each month. Field parameters recorded included: pH, conductivity, oxidation reduction potential ("ORP"), temperature, and dissolved oxygen ("DO"). Water level measurements and post-injection field parameter readings were collected during each event from the following monitoring wells:

- April: MW-7, MW-8, MW-17, MW-21, and MW-22;



- May: MW-12, MW-13D, MW-15D, MW-21D, and MW-22; and
- June: MW-6DS, MW-9S, MW-9D, MW-12D, and MW-17.

The sampling activities were performed in general accordance with the U.S. Environmental Protection Agency ("EPA") Region 4 Science and Ecosystem Support Division ("SESD") Quality System and Technical Procedures for groundwater (SESDPROC-301-R3) sampling. All groundwater water samples were analyzed for VOCs (EPA method 8260) analysis. The locations of the monitoring wells are shown on **Figure 2**. The monitoring well construction details are presented in **Table 1** and the water level measurements collected during the sampling event are presented in **Table 2**. Water quality field parameters measured during the post-injection monitoring events are provided in **Table 3**. A description of the groundwater sampling procedures is presented in Section 3.0 and the groundwater sampling field forms are provided in **Appendix B**. The results of the April through June post-injection monitoring events are discussed in Section 4.0.

## 2.5 FULL-SCALE GROUNDWATER MONITORING

Wenck conducted a full-scale groundwater monitoring event in July 2018. Wenck collected water level measurements, field parameter readings, and groundwater samples for target VOC parameter analyses from the following twenty-three (23) select monitoring wells: MW-3, MW-4I, MW-6, MW-6D, MW-6DS, MW-7, MW-8, MW-9S, MW-9D, MW-11, MW-12, MW-12D, MW-13, MW-13D, MW-15D, MW-16, MW-17, MW-19, MW-20, MW-21, MW-21D, MW-22, and MW-23. Field parameters recorded included: pH, conductivity, ORP, temperature, and DO.

The sampling activities were performed in general accordance with the EPA SESD's Quality System and Technical Procedures for and groundwater (SESDPROC-301-R3) sampling. All groundwater water samples were analyzed for VOCs (EPA method 8260). The locations of the monitoring wells are shown on **Figure 2**. The monitoring well construction details are presented in **Table 1** and the water level measurements collected during the sampling event are presented in **Table 2**. Water quality field parameters measured during the groundwater sampling event are provided in **Table 3**. A description of the groundwater sampling procedures is presented in Section 3.0 and the groundwater sampling field forms are provided in **Appendix B**. The results of the full-scale groundwater monitoring are discussed in Section 4.0.

## 2.6 SLUG TESTING

Slug testing was performed on September 13 and 14, 2018, in order to determine the hydraulic conductivity in both the shallow aquifer and deep aquifer. Slug testing was performed on monitoring wells MW-7, MW-9S, MW-9D, MW-12, MW-12D, MW-15D, MW-17, MW-21, MW-21D, MW-22, and MW-23.

Hydraulic conductivity in the shallow wells has been tested from standard slug test methods, with values as follows:  $2.10 \times 10^{-5}$  cm/s (MW-7);  $2.07 \times 10^{-5}$  (MW-9S);  $1.47 \times 10^{-5}$  (MW-12);  $6.17 \times 10^{-5}$  (MW-17);  $3.19 \times 10^{-5}$  (MW-21);  $1.16 \times 10^{-5}$  (MW-22); and  $5.89 \times 10^{-5}$  cm/s (MW-23). These values are in range with previously reported hydraulic conductivity values for the site and are typical of Piedmont saprolite. Hydraulic conductivity in the deep wells has been tested from standard slug test methods, with values as follows:  $1.28 \times 10^{-5}$  cm/s (MW-9D);  $2.33 \times 10^{-5}$  (MW-12D);  $1.59 \times 10^{-5}$  (MW-15D); and  $4.46 \times 10^{-5}$  cm/s (MW-21D). The slug test data is shown in **Appendix C**.

## 2.7 EMULSIFIED OIL GROUNDWATER INJECTIONS

Wenck performed additional injections in multiple locations near the northern property boundary. Wenck submitted an injection permit modification to EPD prior to implementation of the injection activities. Wenck injected emulsified oil in October 2018 and will bio-augment with Dehalococcoides bacteria to reduce VOCs in groundwater in November 2018. Previous testing at the Site demonstrated the efficiency of the use of emulsified oil and bioaugmentation to reduce VOCs in groundwater at the Site. Oil Injections were conducted in the four areas: 1) the alley/MW-22 area; 2) MW-3; 3) MW-7; 4) MW-17; 5) MW-11; and 6) MW-16. The chemical injections were delivered to the sub-surface using a direct push technology ("DPT") rig in the shallow aquifer.

The deep aquifer in the vicinity of MW-4 and MW-15D was treated using the six injection wells installed in October 2018 to achieve proper radius of influence and delivery of the oil.

Additional details pertaining to the emulsified oil injections and Dehalococcoides injection will be discussed in the next reporting period.

## 3.0 Sampling Procedures

### 3.1 WATER LEVEL MEASUREMENTS

Prior to sampling, depths to groundwater and total well depths were measured using a water level indicator. Previously marked reference points were used to ensure consistency of measurements. Depths were measured to the nearest 0.01 foot. Water level measurement results are presented in **Table 2**. A potentiometric surface map depicting groundwater flow during the last sitewide groundwater gauging event (July 2018) is presented on **Figure 3**. Groundwater elevations recorded in July 2018 indicated that groundwater beneath the site flows to the east with an average hydraulic gradient of 0.013 feet/foot.

During the July full-scale groundwater monitoring event, measured depth to water ranged from 13.31 to 22.97 feet below top of casing ("TOC"). The water table elevations ranged from 875.87 feet above mean sea level ("msl") to 882.93 feet msl. The observed groundwater conditions during this period are consistent with previous synoptic monitoring events.

### 3.2 GROUNDWATER SAMPLING

Post-injection groundwater sampling from April to June 2018 included collection of samples from five (5) select wells each month. Thirteen (13) monitoring wells (MW-7, MW-8, MW-21, MW-12, MW-13D, MW-15D, MW-21D, MW-22, MW-6DS, MW-9S, MW-9D, MW-12D, and MW-17) have been sampled during this period with monitoring wells MW-22 and MW-17 being sampled twice.

The July 2018 full-scale groundwater monitoring included the collection of samples from twenty-three (23) groundwater wells including MW-3, MW-4I, MW-6, MW-6D, MW-6DS, MW-7, MW-8, MW-9S, MW-9D, MW-11, MW-12, MW-12D, MW-13, MW-13D, MW-15D, MW-16, MW-17, MW-19, MW-20, MW-21, MW-21D, MW-22, and MW-23.

In addition to the post-injection groundwater sampling events, monitoring wells MW-8I and MW-19I were sampled following their installation in October 2018.

The following field parameters were measured using direct reading instruments: DO, pH, conductivity ("SC"), water temperature, turbidity, and ORP. The results of these measurements are presented in **Table 3**. Groundwater parameters during purging were considered stable when at least three (3) sets of readings were within the following ranges:

- ▲ pH ( $\pm 0.1$  SU);
- ▲ SC ( $\pm 5\%$ );
- ▲ Turbidity (<10 NTUs or stable); and
- ▲ DO ( $\pm 0.2$ mg/L or 10%, whichever was greater).

Pumping rates were established at 0.1 liters per minute and adjusted to accommodate drawdown, if necessary. Purge water from the wells was placed into 55-gallon steel drums. The drums of investigation-derived waste ("IDW") were properly labeled prior to leaving the site.

Groundwater samples were collected after field parameters stabilized. The samples were collected in laboratory supplied pre-preserved bottles, placed in a cooler with ice, and submitted under chain-of-custody control to Pace Analytical Services, LLC ("Pace") for laboratory analysis. All groundwater samples were analyzed to determine concentrations of VOCs using EPA method 8260B. Field logs of the sampling activities are provided in **Appendix B**.

Decontamination of non-disposable equipment was performed during the sampling event. Equipment was cleansed after each use with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment Cleaning and Decontamination* (SESDPROC-205-R3, December 2015). The equipment was then allowed to air dry.

## 4.0 Discussion of Analytical Results

A full-scale injection event was performed in December 2017, and post-injection monitoring was performed monthly between January and June 2018. Select groundwater wells in the injection areas were sampled in January through June 2018 to evaluate groundwater conditions in and immediately downgradient of the injection areas. The results of the January through March 2018 post-injection monitoring were discussed in the Sixth Progress Report. The results of the post-injection monitoring for this Report Period are discussed below. Additionally, a full-scale groundwater monitoring event was conducted in July 2018. The full-scale monitoring event sampled twenty-three (23) groundwater wells. The results of the full-scale groundwater monitoring event are discussed in Section 4.2.

### 4.1 POST-INJECTION MONITORING ANALYTICAL RESULTS

Groundwater samples were collected from thirteen (13) monitoring wells during the April through June groundwater sampling events. As shown on **Table 4**, eleven (11) constituents were detected above the laboratory reporting limit. Of those constituents, four (4) were detected at concentrations above the Type 4 risk reduction standard ("RRS"), including: 1,1,2,2-Tetrachloroethane ("1,1,2,2-TCA"), cis-DCE, PCE, and TCE. Results are as follows:

- ▲ 1,1,2,2-Tetrachloroethane exceeded the RRS at MW-7 (11.5 µg/L) and MW-22 [24.0 µg/L (April) and 21.6 µg/L (May)].
- ▲ Cis-DCE exceeded the RRS at four (4) wells: MW-7 (503 µg/L), MW-12 (13,000 µg/L), MW-21 (11,400 µg/L), and MW-22 (1,050 µg/L in April and 1,090 µg/L in May).
- ▲ PCE exceeded the RRS at seven (7) wells: MW-7 (18,800 µg/L), MW-12 (6,110 µg/L), MW-13D (497 µg/L), MW-15D (2,210 µg/L), MW-17 (312 µg/L (April) and 323 µg/L (June)), MW-21 (2,120 µg/L), and MW-22 [102,000 µg/L (April) and 112,000 µg/L (May)].
- ▲ TCE exceeded the RRS at ten (10) wells: MW-6DS (67.1 µg/L), MW-7 (208 µg/L), MW-9D (17.5 µg/L), MW-12 (447 µg/L), MW-12D (45.3 µg/L), MW-13D (1,070 µg/L), MW-15D (137 µg/L), MW-17 [111 µg/L (April) and 120 µg/L (June)], MW-21 (787 µg/L), and MW-22 [1,280 µg/L (April) and 1,060 µg/L (May)].

Laboratory reports and supporting chain-of-custody documentation are included in **Appendix D**.

In comparison to pre-injection groundwater conditions in 2017, a decrease in parent product PCE was observed in five (5) of the thirteen (13) wells (MW-6DS, MW-12, MW-17, MW-21, MW-21D) sampled during the post-injection groundwater monitoring. Additionally, a decrease in TCE was observed in seven (7) of the thirteen (13) wells (MW-7, MW-8, MW-9S, MW-12, MW-17, MW-21, and MW-21D) sampled during the post-injection groundwater monitoring. These results suggest the BAM injection is effective in reducing PCE in the groundwater. This is further supported by an increase in the daughter product cis-DCE in seven (7) monitoring wells (MW-6DS, MW-7, MW-12, MW-13D, MW-21, MW-21D, and MW-22). Deep wells located below the targeted injection zone remained relatively stable following the BAM injection event (MW-6DS, MW-9D, MW-12D, and MW-15D).

The analytical results from the October 2017 and January through June post-injection monitoring are shown in **Table 4**. Graphs showing the analytical trends for select

groundwater wells monitored between April and June 2018 are presented on **Figures 4B-4N**.

## 4.2 FULL-SCALE GROUNDWATER SAMPLING

Groundwater samples were collected from twenty-three (23) monitoring wells during the July groundwater sampling event. As shown on **Table 4**, fifteen (15) constituents were detected above the laboratory reporting limit. Of those constituents, four (4) were detected at concentrations above the Type 4 risk reduction standard ("RRS"), including: 1,1,2,2-Tetrachloroethane ("1,1,2,2-TCA"), cis-DCE, PCE, and TCE. Results are as follows:

- ▲ 1,1,2,2-TCA exceeded the RRS at MW-13 (18.4 µg/L) and MW-22 (25.0 µg/L).
- ▲ Cis-DCE exceeded the RRS at six (6) wells: MW-7 (178 µg/L), MW-12 (10,000 µg/L), MW-13 (1,450 µg/L), MW-21 (14,800 µg/L), MW-22 (931 µg/L), and MW-23 (1,110 µg/L).
- ▲ PCE exceeded the RRS at eleven (11) wells: MW-4I (2,220 µg/L), MW-7 (14,300 µg/L), MW-11 (74.7 µg/L), MW-12 (5,350 µg/L), MW-13 (49,500 µg/L), MW-13D (660 µg/L), MW-15D (2,060 µg/L), MW-16 (25.5 µg/L), MW-17 (225 µg/L), MW-21 (6,540 µg/L), and MW-22 (100,000 µg/L).
- ▲ TCE exceeded the RRS at sixteen (16) wells: MW-3 (50.6 µg/L), MW-4I (680 µg/L), MW-6DS (53.1 µg/L), MW-7 (260 µg/L), MW-9D (23.5 µg/L), MW-11 (31.0 µg/L), MW-12 (1,090 µg/L), MW-12D (51.2 µg/L), MW-13 (951 µg/L), MW-13D (1,210 µg/L), MW-15D (157 µg/L), MW-16 (14.9 µg/L), MW-17 (114 µg/L), MW-21 (1,100 µg/L), MW-22 (1,210 µg/L), and MW-23 (306 µg/L).

**Figures 5** through **8** present isoconcentration maps for 1,1,2,2-TCA, PCE, TCE, and Cis-1,2-DCE. Laboratory reports and supporting chain-of-custody documentation are included in **Appendix D**.

In comparison to the October 2017 and December 2016 groundwater monitoring events, a decrease in parent product PCE was observed in thirteen (13) of the twenty-three (23) wells (MW-6, MW-6D, MW-6DS, MW-7, MW-9S, MW-11, MW-12, MW-13, MW-13D, MW-17, MW-21, MW-21D, MW-23) sampled during the full-scale groundwater monitoring event. Additionally, a decrease in TCE was observed in fourteen (14) of the twenty-three (23) wells (MW-6, MW-6D, MW-7, MW-8, MW-9S, MW-11, MW-12, MW-13, MW-16, MW-17, MW-19, MW-21, MW-21D, and MW-23) sampled during the full-scale groundwater monitoring event. These results suggest the BAM injection is effective in reducing PCE in the groundwater. This is further supported by an increase in the daughter product cis-DCE in seven (7) monitoring wells (MW-9S, MW-12, MW-13D, MW-21, MW-21D, MW-22, and MW-23). Deep wells located below the targeted injection zone remained relatively stable following the BAM injection event (MW-6DS, MW-9D, MW-12D, and MW-15D).

The analytical results from the December 2016, October 2017, and July 2018 groundwater monitoring events are shown in **Table 4**. **Figure 4** shows the July 2018 groundwater monitoring event results. Graphs showing the analytical trends for select groundwater wells are shown in **Figures 4B-4N**.

## 4.3 MW-8I AND MW-19I GROUNDWATER SAMPLING

Groundwater samples were collected from the two (2) recently installed monitoring wells (MW-8I and MW-19I) on October 4, 2018. These wells were placed downgradient of Roper

clustered with MW-8 and MW-19 and screened at a similar elevation as MW-17/ As shown on **Table 4**, three (3) constituents were detected above the laboratory reporting limit. Of those constituents, TCE was detected slightly above the Type 4 risk reduction standard ("RRS"). Results are as follows:

- ▲ TCE was detected at MW-8I at 6.0 µg/L, which is lower than those detected at the downgradient well MW-17 (114 ug/L).
- ▲ PCE was detected at MW-8I at 17.0 µg/L, which is lower than the levels detected at downgradient at MW-17 (225 ug/L).
- ▲ MW-19I reported PCE below the detection limit and TCE at 4.7 ug/L, which are also below the detections at MW-17.

The results from MW-8I and MW-19I the COIs detected in MW-17 are not from Roper and will not be treated to achieve RRS. **Figures 5** through **8** present isoconcentration maps for 1,1,2,2-TCA, PCE, TCE, and Cis-1,2-DCE. Laboratory reports and supporting chain-of-custody documentation are included in **Appendix D**.

## 5.0 Conceptual Site Model

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Roper previously developed a CSM which provides the basis for identifying and evaluating potential contaminant sources and transport mechanisms for contaminant migration through the environment, as well as evaluation of potential risk to receptors. The CSM defines the Site characteristics, release sources, extent of the plume(s), likely fate and transport mechanisms, potential exposure pathways, and potential sensitive receptors that could be impacted.

The following sections summarize the current understanding of the CSM based on the most recent site information.

### 5.1 CONSTITUENTS OF CONCERN

Environmental assessment activities have been ongoing at the Site since 2009. The most recent groundwater analytical testing identified four (4) compounds which were detected at concentrations greater than non-residential RRS including the following: 1,1,2,2-TCA; cis-DCE; PCE, and TCE.

### 5.2 CENTER OF THE PLUME

The VRP application included a discussion of historical activities that contributed to the impacts at the Site. The information indicates that the cause of VOCs released to the subsurface was from a spill(s) that occurred in the 1950's in the vicinity of the abandoned storm sewer located near the overhang storage. The abandoned storm sewer extends underground from the inlet located under Loading Dock #1, northwest to the storm drain. Site information collected since the original VRP application supports this assessment and demonstrates that the highest concentrations of VOC in groundwater are present near the abandoned storm sewer, including areas beneath existing buildings. PCE concentrations in groundwater decrease along a gradient with increasing distance downgradient of the abandoned storm sewer. The plume is an old, stable plume that is not presenting any risk to downgradient receptors.

### 5.3 GROUNDWATER FLOW CHARACTERISTICS

As previously discussed, water level measurements collected on July 23, 2018 (**Table 2**) were used to develop a potentiometric surface map for the Site. As shown on **Figure 3**, the groundwater elevation data indicates groundwater beneath the site flows to the east with an average hydraulic gradient of 0.013 feet/foot.

### 5.4 EXTENT OF GROUNDWATER IMPACTS

The full-scale groundwater treatment plan includes chemical injection in the center of the plume and along the northeast property boundary to reduce concentrations. Groundwater analytical results from the July 2018 monitoring events is presented on **Figure 4**. The extents of the four (4) constituents above the EPD-approved Type 4 RRS individual and their concentrations above delineation criteria are presented on isoconcentration maps as **Figures 5** through **8**.



Groundwater sampling information indicates that concentrations of 1,1,2,2-TCA greater than the applicable delineation criteria and Type 4 RRS are confined to on-site wells in the center of the plume (MW-7, MW-13, and MW-22). The horizontal extent of 1,1,2,2-TCA was previously delineated to the northeast, east, and southeast by monitoring wells MW-10, MW-4, and MW-3 as shown on **Figure 5**.

Concentrations of PCE and TCE greater than the applicable Type 4 RRS remain in the center of the plume and have migrated downgradient toward the northeast property boundary. PCE in wells MW-7, MW-12, MW-13, MW-21, and MW-22 reported PCE at 14,300 ug/L, 5,350 ug/L, 49,500 ug/L, 6,020 ug/L, and 100,000 ug/L during the July 2018 groundwater monitoring event. The horizontal extents of PCE and TCE were previously delineated to the northeast, east, and southeast by monitoring wells MW-10, MW-18, MW-19, and MW-20 as shown on **Figures 6 and 7**.

Concentrations of cis-DCE greater than the applicable delineation criteria and Type 4 risk RRS are primarily confined to on-Site wells MW-7, MW-12, MW-13, MW-21, MW-22, and MW-23. Groundwater sampling information indicates that cis-DCE concentrations greater than the RRS have migrated slightly downgradient toward MW-23 but horizontal extent of cis-DCE was previously delineated to the northeast, east, and southeast by monitoring wells MW-10, MW-4, and MW-3 as shown on **Figure 8**.

Vertical delineation activities at the Site has been performed to the extent technically practical and to meet the requirements of the VRP Act and remedial goals. Bedrock monitoring well MW-15D was installed to provide vertical delineation information for the Site. In addition, deep monitoring wells MW-6D, MW-9D, MW-12D, and MW-13D provide information regarding vertical distribution of impacts across the plume. **Figure 9** presents a cross section location map. Groundwater concentration information and concentration results from the July 2018 sampling event are depicted on cross section **Figures 10 and 11**.

Groundwater sampling performed in July 2018 indicated that the highest groundwater impacts were located within a vertical zone extending from approximately 30 to 45 feet bgs. PCE concentrations in wells from this vertical zone including MW-7, MW-12, MW-13, MW-21 and MW-22 were reported at 14,300 ug/L, 5,350 ug/L, 49,500 ug/L, 6,540 ug/L, and 100,000 ug/L, respectively, during the post-injection sampling events.

The July 2018 sampling also demonstrated that concentrations in the center of the plume remained stable compared to previous groundwater monitoring events within the deeper zones at depths ranging from 50 feet to 86.5 feet bgs. PCE concentrations in wells from the deeper vertical zone including MW-9D, MW-12D, MW-13D, and MW-21D were reported during the post-injection monitoring events at 4.8 ug/L, 13.5 ug/L, 660 ug/L, and 3.9 ug/L, respectively.

Recent sampling in October 2018 support that off-site downgradient detections of PCE and TCE at MW-17 are not associated with the groundwater conditions on the Roper property. Because the results of groundwater at MW-8 and MW-8I are below the levels detected at MW-17, we believe the groundwater conditions at MW-17 are unrelated to the Roper property.

## 6.0 Planned Activities and Schedule

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As provided in **Table 5**, Activities planned for the next six-month reporting period (November 1, 2018 through April 30, 2019) include the following:

- ▲ Fate and Transport modeling;
- ▲ Additional injection of bacteria after emulsified oil injections;
- ▲ Post-injection monitoring; and
- ▲ Preparation of a Compliance Status Report ("CSR").

### 6.1 AQUIFER PRELIMINARY MODELING

Wenck will conduct fate and transport modeling for the Site. This phase of the work will include the use of the new aquifer data and the Biochlor Model. Wenck will calibrate the model and conduct a sensitivity analysis. The model will be included in the Final CSR for the Site as required by VRP.

### 6.2 POST INJECTION SAMPLING

Once all of the injection and monitoring wells are installed and the injections are completed, Wenck will complete one round of performance sampling at select wells. This information will be incorporated into the groundwater model.

## Tables

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**TABLE 1**  
**Monitoring Well Construction Details**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI No. 10901



Well Number	Well Completion Date	Top of Casing Elevation (feet-NGVD)	Depth of Screened Interval (feet BGS)	Screen Length (feet)
MW-1	2/10/2014	895.62	11.5 - 26.5	15
MW-2	2/10/2014	896.57	9.9 - 24.9	15
MW-3	2/17/2014	901.06	11.9 - 26.9	15
MW-4	2/18/2014	899.10	9.7 - 24.7	15
MW-4I	7/17/2018	899.42	30 - 40	10
MW-5	2/18/2014	898.65	9.9 - 24.9	15
MW-6	2/17/2014	898.33	9.2 - 24.2	15
MW-6D	2/14/2014	898.25	33 - 43	10
MW-6DS	2/14/2014	898.31	61 - 66	5
MW-7	2/18/2014	898.12	9.4 - 24.4	15
MW-8	10/28/2014	903.70	24.5 - 34.5	10
MW-8I	10/2/2018	903.38	40 - 50	10
MW-9S	10/29/2014	898.31	16 - 26	10
MW-9D	10/29/2014	898.48	63.5 - 68.5	5
MW-10	10/29/2014	906.94	29.5 - 39.5	10
MW-11	10/29/2014	901.31	24 - 34	10
MW-12	10/2/2017	898.28	35 - 45	10
MW-12D	8/31/2015	898.27	81.5 - 86.5	5
MW-13	10/2/2017	898.49	30 - 40	10
MW-13D	8/28/2015	898.26	64 - 69	5
MW-14	8/27/2015	899.10	25 - 35	10
MW-15D	2/24/2016	898.10	74 - 84	10
MW-16	2/25/2016	900.87	25 - 35	10
MW-17	2/25/2016	899.92	30 - 40	10
MW-18	8/26/2016	886.50	30 - 40	10
MW-19	12/2/2016	906.86	25 - 40	15
MW-19I	10/2/2018	906.59	40 - 50	10
MW-20	12/9/2016	900.11	25 - 40	15
MW-21	10/3/2017	898.67	30 - 40	10
MW-21D	4/17/2017	898.76	50 - 60	10
MW-22	10/4/2017	895.67	30 - 40	10
MW-23	10/4/2017	899.60	40 - 50	10
IW-1	10/5/2018	899.52	51 - 71	20
IW-2	10/5/2018	899.16	51 - 71	20
IW-3	10/4/2018	900.52	40 - 60	20
IW-4	10/4/2018	899.20	40 - 60	20
IW-5	10/4/2018	899.18	54 - 74	20
IW-6	10/4/2018	900.72	60 - 80	20

Notes:

- NGVD- National Geodetic Vertical Datum
- BGS- Below Ground Surface
- TBD- To Be Determined in next report period

Prepared by:           MCP            
Reviewed by:           RTM          

Date:           10/11/2018            
Date:           10/25/2018

**TABLE 2**  
**Summary of Groundwater Elevations**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



Well Number	Date Measured	Top of Casing Elevation (feet)	Depth of Screened Interval (feet BLS)	Water Depth (feet)	Groundwater Elevation (feet)
MW-1	07/23/18	895.62	11.5-26.5	13.31	882.31
MW-2	07/23/18	896.57	9.9-24.9	16.93	879.64
MW-3	07/23/18	901.06	11.9-26.9	22.97	878.09
MW-4	10/12/17	899.1	9.7-24.7	23.23	875.87
	07/23/18	Well Blocked			
MW-4I	07/23/18	899.42	40-50	23.38	876.04
MW-5	07/23/18	898.65	9.9-24.9	15.72	882.93
MW-6	05/25/17	898.37	9.2-24.2	20.16	878.21
	06/26/17	898.37	9.2-24.2	19.89	878.48
	07/18/17	898.37	9.2-24.2	19.57	878.80
	08/24/17	898.37	9.2-24.2	19.42	878.95
	10/12/17	898.37	9.2-24.2	19.54	878.83
	07/23/18	898.37	9.2-24.2	18.14	880.23
MW-6D	05/25/17	898.25	33-43	20.14	878.11
	06/26/17	898.25	33-43	19.88	878.37
	07/18/17	898.25	33-43	19.55	878.70
	08/24/17	898.25	33-43	19.42	878.83
	10/12/17	898.25	33-43	19.56	878.69
	07/23/18	898.25	33-43	17.93	880.32
MW-6DS	05/25/17	898.31	61-66	21.45	876.86
	06/26/17	898.31	61-66	20.23	878.08
	07/18/17	898.31	61-66	19.89	878.42
	08/24/17	898.31	61-66	19.73	878.58
	10/12/17	898.31	61-66	19.78	878.53
	03/28/18	898.31	61-66	20.64	877.67
	06/25/18	898.31	61-66	19.50	878.81
	07/23/18	898.31	61-66	18.35	879.96
MW-7	05/25/17	898.12	9.4-24.4	21.12	877.00
	06/26/17	898.12	9.4-24.4	20.85	877.27
	07/18/17	898.12	9.4-24.4	20.52	877.60
	08/24/17	898.12	9.4-24.4	20.31	877.81
	10/12/17	898.12	9.4-24.4	20.78	877.34
	01/19/18	898.12	9.4-24.4	20.86	877.26
	07/23/18	898.12	9.4-24.4	19.23	878.89

Notes:  
Elevations measured to an assumed datum of 1000.00 feet  
TBD - To Be Determined in next report period  
NM - Not Measured

Prepared by:     MCP          Date:     8/6/2018      
Reviewed by:     RTM          Date:    10/25/2018

**TABLE 2**  
**Summary of Groundwater Elevations**

Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI Site No. 10901



Well Number	Date Measured	Top of Casing Elevation (feet)	Depth of Screened Interval (feet BLS)	Water Depth (feet)	Groundwater Elevation (feet)
MW-8	07/23/18	903.70	24.5-34.5	27.52	876.18
MW-8I	10/04/18	903.38	40-50	28.02	875.36
MW-9S	05/25/17	898.31	16-26	20.96	877.35
	06/26/17	898.31	16-26	20.71	877.60
	07/18/17	898.31	16-26	20.39	877.92
	08/24/17	898.31	16-26	20.17	878.14
	10/12/17	898.31	16-26	20.24	878.07
	02/28/18	898.31	16-26	20.40	877.91
	06/25/18	898.31	16-26	19.33	878.98
	07/23/18	898.31	16-26	19.05	879.26
MW-9D	05/25/17	898.48	63.5-68.5	21.24	877.24
	06/26/17	898.48	63.5-68.5	20.99	877.49
	07/18/17	898.48	63.5-68.5	20.67	877.81
	08/24/17	898.48	63.5-68.5	20.46	878.02
	10/12/17	898.48	63.5-68.5	20.53	877.95
	03/28/18	898.48	63.5-68.5	20.29	878.19
	06/25/18	898.48	63.5-68.5	19.98	878.50
	07/23/18	898.48	63.5-68.5	19.92	878.56
MW-10	07/23/18	906.94	29.5-39.5	30.79	876.15
MW-11	07/23/18	901.31	24-34	23.81	877.50
MW-12	10/12/17	898.28	35-45	20.55	877.73
	02/28/18	898.28	35-45	21.00	877.28
	07/23/18	898.28	35-45	19.72	878.56
MW-12D	05/25/17	898.27	81.5-86.5	21.49	876.78
	06/26/17	898.27	81.5-86.5	21.17	877.10
	07/18/17	898.27	81.5-86.5	20.85	877.42
	08/24/17	898.27	81.5-86.5	20.63	877.64
	10/12/17	898.27	81.5-86.5	20.36	877.91
	03/28/18	898.27	81.5-86.5	20.53	877.74
	06/25/18	898.27	81.5-86.5	20.22	878.05
	07/23/18	898.27	81.5-86.5	19.86	878.41
MW-13	10/12/17	898.49	30-40	20.37	878.12
	01/19/18	898.49	30-40	20.82	877.67
	03/28/18	898.49	30-40	20.12	878.37
	07/23/18	898.49	30-40	19.21	879.28

Notes:

Elevations measured to an assumed datum of 1000.00 feet

TBD - To Be Determined in next report period

NM - Not Measured

Prepared by:     MCP     Date:     8/6/2018      
 Reviewed by:     RTM     Date:     10/25/2018

**TABLE 2**  
**Summary of Groundwater Elevations**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



Well Number	Date Measured	Top of Casing Elevation (feet)	Depth of Screened Interval (feet BLS)	Water Depth (feet)	Groundwater Elevation (feet)
MW-13D	05/25/17	898.26	64-69	NM	---
	06/26/17	898.26	64-69	20.74	880.57
	07/18/17	898.26	64-69	NM	---
	10/12/17	898.26	64-69	20.34	877.92
	02/28/18	898.26	64-69	20.38	877.88
	07/23/18	898.26	64-69	19.16	879.10
MW-14	07/23/18	899.10	25-35	20.65	878.45
MW-15D	10/12/17	898.10	74-84	23.51	874.59
	02/28/18	898.10	74-84	23.38	874.72
	07/23/18	898.10	74-84	24.41	873.69
MW-16	07/23/18	900.87	25-35	24.10	876.77
MW-17	06/25/18	899.92	30-40	34.33	865.59
	07/23/18	899.92	30-40	33.33	866.59
MW-18	07/23/18	886.50	30-40	30.98	855.52
MW-19	07/23/18	906.86	25-40	34.88	871.98
MW-19I	10/04/18	906.59	40-50	33.28	873.31
MW-20	07/23/18	900.11	25-40	24.02	876.09
MW-21	10/12/17	898.67	30-40	20.71	877.96
	01/19/18	898.67	30-40	21.14	877.53
	07/23/18	898.67	30-40	19.62	879.05
MW-21D	05/25/17	898.76	50-60	21.69	877.07
	06/26/17	898.76	50-60	21.41	877.35
	07/18/17	898.76	50-60	21.33	877.43
	08/24/17	898.76	50-60	20.87	877.89
	10/12/17	898.76	50-60	20.97	877.79
	02/28/18	898.76	50-60	21.17	877.59
	07/23/18	898.76	50-60	19.93	878.83
MW-22	10/12/17	895.67	30-40	16.85	878.82
	01/19/18	895.67	30-40	17.23	878.44
	07/23/18	895.67	30-40	15.70	879.97
MW-23	10/12/17	899.60	40-50	23.37	876.23
	01/19/18	899.60	40-50	23.85	875.75
	03/28/18	899.60	40-50	23.16	876.44
	07/23/18	899.60	40-50	22.22	877.38

Notes:

Elevations measured to an assumed datum of 1000.00 feet

TBD - To Be Determined in next report period

NM - Not Measured

Prepared by:     MCP          Date:   10/11/2018    
Reviewed by:     RTM          Date:   10/25/2018

**TABLE 3**  
**Summary of Groundwater Parameters**

Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI Site No. 10901



Well ID	Date Sampled	Temp (°C)	pH (SU)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-3	7/24/2018	21.80	4.70	0.071	5.27	148.7
MW-4	10/12/2017	21.60	4.86	0.045	5.61	306.2
MW-4I	7/24/2018	21.09	5.46	0.056	4.71	94.7
MW-6	9/2/2015	75.90	5.18	0.059	5.58	437.00
	3/3/2016	17.52	4.89	0.091	6.76	516.00
	6/26/2017	22.45	5.44	0.074	0.85	18.60
	7/18/2017	23.70	4.76	0.076	6.13	165.70
	8/24/2017	19.61	4.90	0.080	5.97	195.60
	10/12/2017	23.10	5.01	0.070	5.95	277.80
	7/24/2018	22.04	3.82	0.075	6.42	378.70
MW-6D	9/3/2015	21.86	5.84	0.019	2.88	372.00
	3/4/2016	17.05	5.40	0.043	3.24	359.00
	5/25/2017	22.62	5.51	0.036	5.59	210.00
	6/26/2017	23.28	5.63	0.031	5.25	45.60
	7/18/2017	22.33	5.04	0.030	5.28	180.10
	10/12/2017	22.40	5.00	0.028	4.45	335.80
	7/24/2018	21.20	6.50	0.256	0.26	-192.30
MW-6DS	9/2/2015	75.00	5.54	0.018	5.03	410.00
	3/3/2016	16.95	4.93	0.027	5.48	520.00
	5/25/2017	21.57	5.76	0.037	5.00	189.30
	6/26/2017	23.08	6.18	0.041	5.16	3.50
	7/18/2017	23.27	5.42	0.041	0.58	143.00
	10/12/2017	22.40	5.21	0.030	5.12	289.80
	3/28/2018	21.30	5.99	0.051	3.89	4.00
	6/25/2018	22.40	6.18	0.112	1.01	544.10
7/24/2018	22.34	5.90	0.070	4.49	223.5	
MW-7	9/4/2015	24.40	5.32	0.046	5.21	419.00
	5/25/2017	21.53	4.98	0.052	5.46	252.20
	6/26/2017	21.95	5.43	0.070	4.62	20.90
	7/18/2017	23.75	4.99	0.090	4.05	76.50
	8/24/2017	22.91	5.11	0.091	3.94	132.10
	10/13/2017	22.50	4.88	0.087	3.71	486.40
	1/19/2018	20.75	4.19	0.077	4.48	298.00
	4/26/2018	18.52	5.07	0.093	4.03	224.90
	7/25/2018	21.56	4.97	0.098	2.92	187.2
MW-8	4/26/2018	20.13	4.34	0.032	2.88	139.0
	7/25/2018	20.17	4.70	0.043	3.66	173.1
MW-8I	10/4/2018	30.85	4.45	0.042	3.73	161.7
MW-9S	9/2/2015	23.90	4.39	0.101	6.82	432.00
	5/25/2017	20.54	5.24	0.124	4.23	208.80
	6/26/2017	21.30	5.79	0.130	0.01	-1.20
	7/18/2017	22.19	5.02	0.138	2.83	71.70
	8/24/2017	22.07	5.05	0.142	5.10	189.80
	10/13/2017	20.60	4.79	0.123	5.64	285.20
	2/28/2018	20.45	6.01	0.238	2.80	163.00
	6/25/2018	19.90	6.01	0.154	1.88	153.00
	7/24/2018	20.93	5.75	0.123	2.84	243.1



**TABLE 3**  
**Summary of Groundwater Parameters**

Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI Site No. 10901



Well ID	Date Sampled	Temp (°C)	pH (SU)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-9D	9/2/2015	24.99	11.29	0.201	2.54	37.00
	3/2/2016	16.82	9.71	0.229	0.91	78.00
	8/31/2016	23.29	10.11	0.153	3.34	2.00
	5/25/2017	20.64	10.17	0.101	1.63	1.20
	6/26/2017	20.95	9.31	0.093	2.97	-80.60
	7/18/2017	23.29	9.32	0.117	2.00	-139.00
	8/24/2017	23.29	9.28	0.114	2.29	-22.20
	10/12/2017	20.50	9.90	0.099	2.81	53.10
	3/28/2018	19.44	9.53	0.093	3.62	26.00
	6/25/2018	20.40	9.60	0.120	3.10	107.10
7/24/2018	21.36	9.21	0.096	3.80	123.8	
MW-11	7/25/2018	22.85	4.97	0.072	1.79	130.9
MW-12	10/13/2017	21.90	6.21	0.085	0.80	57.20
	2/28/2018	21.28	6.07	0.171	1.18	-62.00
	5/30/2018	21.40	4.95	0.220	0.25	-93.30
	7/25/2018	23.25	5.61	0.360	1.04	-7.50
MW-12D	9/3/2015	70.80	11.12	0.080	6.20	172.00
	3/3/2016	18.72	8.67	0.097	3.01	231.00
	8/31/2016	24.98	9.39	0.092	5.71	82.00
	5/25/2017	21.67	9.21	0.092	3.65	57.40
	6/26/2017	21.99	9.20	0.104	3.75	-44.90
	7/18/2017	23.40	9.15	0.109	3.89	-122.10
	8/24/2017	22.90	8.87	0.100	4.84	24.40
	10/12/2017	21.60	9.31	0.080	5.31	62.50
	3/28/2018	20.08	9.07	0.077	1.31	61.80
	6/25/2018	20.90	8.80	0.083	3.79	136.40
7/24/2018	20.67	7.69	0.063	6.14	24.00	
MW-13	10/13/2017	20.60	5.18	0.055	1.38	189.90
	1/19/2018	24.22	4.73	0.073	1.08	170.00
	3/28/2018	19.89	4.72	0.070	0.81	106.70
	7/26/2018	20.50	4.94	0.111	1.13	44.80
MW-13D	9/3/2015	71.30	10.53	0.070	3.46	148.00
	3/3/2016	19.71	5.74	0.049	1.66	395.00
	8/31/2016	21.47	5.56	0.115	2.83	291.00
	6/27/2017	20.97	6.44	0.048	3.94	-17.80
	10/13/2017	20.60	6.13	0.038	4.42	177.50
	2/28/2018	20.83	5.73	0.065	3.99	225.00
	5/30/2018	20.40	6.09	0.040	4.73	123.00
	7/25/2018	21.38	5.32	0.046	4.31	222.9
MW-15D	10/12/2017	21.40	6.41	0.040	3.21	186.70
	2/28/2018	18.35	6.69	0.076	5.01	121.00
	5/30/2018	21.00	6.33	0.038	4.25	129.40
	7/25/2018	20.68	6.39	0.049	3.60	60.10

**TABLE 3**  
**Summary of Groundwater Parameters**

Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI Site No. 10901



Well ID	Date Sampled	Temp (°C)	pH (SU)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-16	7/25/2018	21.80	4.56	0.064	2.66	288.3
MW-17	4/26/2018	19.59	4.52	0.024	6.85	162.0
	6/25/2018	21.70	4.73	0.029	1.21	343.50
	7/25/2018	19.60	5.30	0.037	6.90	116.60
MW-19	7/24/2018	19.85	5.13	0.062	6.81	135.9
MW-19I	10/4/2018	24.94	4.53	0.047	4.20	196.9
MW-20	7/24/2018	20.71	5.01	0.066	5.28	-5.2
MW-21	10/13/2017	20.70	6.44	0.130	1.13	20.30
	1/19/2018	23.42	4.71	0.851	1.24	98.00
	4/26/2018	18.10	6.00	0.592	1.12	61.80
	7/25/2018	20.80	6.29	0.358	0.30	-45.20
MW-21D	5/25/2017	20.71	6.21	0.030	5.98	186.40
	6/26/2017	21.73	6.48	0.032	6.36	3.90
	7/18/2017	22.14	7.21	0.037	5.97	-61.80
	8/24/2017	22.70	6.37	0.035	6.22	89.20
	10/13/2017	20.70	6.38	0.029	5.75	144.20
	2/28/2018	21.34	5.99	0.103	2.57	25.00
	5/30/2018	20.40	5.98	0.077	0.63	6.40
	7/24/2018	20.61	6.49	0.128	0.44	-124.8
MW-22	10/13/2017	20.70	5.13	0.059	5.92	271.00
	1/19/2018	15.88	6.13	0.361	1.91	122.00
	4/26/2018	18.01	6.71	0.251	2.42	111.20
	5/30/2018	20.30	6.18	0.214	2.89	132.80
	7/26/2018	20.64	6.18	0.182	1.43	73.8
MW-23	10/12/2017	20.50	5.51	0.056	3.83	173.80
	1/19/2018	24.46	4.76	0.538	0.78	91.00
	3/28/2018	19.82	4.83	0.278	0.28	60.90
	7/25/2018	22.17	6.26	0.209	0.95	-34.1

Prepared by:           MCP            
 Reviewed by:           RTM          

Date:           10/11/2018            
 Date:           10/25/2018

**TABLE 4**  
**Summary of Groundwater Analytical Results**  
**Volatile Organic Compounds**



Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI No. 10901

Sample ID	Date Sampled	1,1,1,2 Tetrachloroethane (µg/L)	1,1,2,2 Tetrachloroethane (µg/L)	1,1,1,2 Trichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,2 Dichloroethane (µg/L)	trans 1,2-Dichloroethane (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	cis 1,2-dichloroethene (µg/L)	Vinyl Chloride (µg/L)	Bromodichloromethane (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	4-Methyl-2-pentanone (MIBK) (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylene (total) (µg/L)
Delineation Criteria (Type 1 RRS)		70	0.2	5	4,000	7	5.0	100	5	5	70	2.0	NL	5	80	700	5.0	NL	20	1,000	10,000
Type 2 RRS		NC	0.89	5	NC	100	NC	310	19	5	70	NC	NC	5.4	80	NC	NC	NC	NC	1,000	NC
Type 4 RRS		NC	1.3	5	NC	520	NC	2,000	98	5.2	200	NC	NC	8.72	80	NC	NC	NC	NC	5,200	NC
MW 1	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	11/7/2014	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW 2	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	11/7/2014	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW 3	2/24/2014	<1	<1	<1	<1	<1	<1	<1	4.5	<b>35</b>	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	5/19/2014	<1	<5	<5	<1	<5	<1	<5	<5	<b>23</b>	<5	<1	<1	<5	7.1	<1	<1	<5	<1	<5	<1
	11/5/2014	<1	<5	<5	<1	<5	<1	<5	<b>8.3</b>	<b>55</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/4/2015	<1	<5	<5	<1	<5	<1	<5	<b>10</b>	<b>50</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<b>22</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	<b>8.7</b>	<b>50.6</b>	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 4	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<b>189</b>	<b>130</b>	14	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	5/19/2014	<1	<5	<5	<1	<5	<1	<5	<b>24</b>	<b>11</b>	<5	<1	<1	<5	38	<1	<1	<5	<1	<5	<1
	11/5/2014	<1	<5	<5	<1	<5	<1	<5	<b>170</b>	<b>98</b>	10	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/4/2015	<1	<5	<5	<1	<5	<1	<5	<b>130</b>	<b>98</b>	11	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/4/2016	<1	<5	<5	<1	<5	<1	<5	<b>88.8</b>	<b>53.4</b>	6.7	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>13.0</b>	<b>19</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
MW-41	7/24/2018	<1	<1	2.3	<1	<1	<1	<1	<b>2,220</b>	<b>680</b>	31.1	<1	<b>1.9</b>	<1	10.5	<1	<1	<5	<1	<1	<1
MW 5	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	11/6/2014	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW 6	2/24/2014	<1	<1	<1	<1	<1	<1	1.9	<b>930</b>	<b>630</b>	<b>1100</b>	<1	<1	<1	3.6	<1	<1	<5	<1	<1	<1
	11/5/2014	<1	<5	<5	<1	<5	<1	<5	<b>110</b>	<b>95</b>	<b>190</b>	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	<5	<1	<5	<1	<5	<b>120</b>	<b>40</b>	<b>110</b>	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/3/2016	<1	<5	<5	<1	<5	<1	<5	<b>119</b>	<b>23</b>	<b>74.2</b>	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	6/27/2017	<1	<2	<2	<1	<2	<1	<2	<b>6.2</b>	<b>5.1</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<5	<5	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	<1	3.8	<1	1.8	<1	<1	<1	<1	<1	<5	<1	<1	<1

Notes:  
 µg/L = micrograms per liter  
 RRS = Risk Reduction Standard  
 <5.0 = Analyte not detected above the laboratory detection limit  
**5.7** = Exceeds Delineation Criteria  
**190** = Exceeds Industrial RRS  
 NA = Not Analyzed

**TABLE 4**  
**Summary of Groundwater Analytical Results**  
**Volatile Organic Compounds**

Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI No. 10901



Sample ID	Date Sampled	1,1,1,2 Tetrachloroethane (µg/L)	1,1,2,2 Tetrachloroethane (µg/L)	1,1,1,2 Trichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,2 Dichloroethane (µg/L)	trans 1,2-Dichloroethane (µg/L)	Tetrachloroethane (µg/L)	Trichloroethane (µg/L)	cis 1,2-dichloroethane (µg/L)	Vinyl Chloride (µg/L)	Bromodichloromethane (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	4-Methyl-2-pentanone (MIBK) (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylene (total) (µg/L)	
Delineation Criteria (Type 1 RRS)		70	0.2	5	4,000	7	5.0	100	5	5	70	2.0	NL	5	80	700	5.0	NL	20	1,000	10,000
Type 2 RRS		NC	0.89	5	NC	100	NC	310	19	5	70	NC	NC	5.4	80	NC	NC	NC	NC	1,000	NC
Type 4 RRS		NC	1.3	5	NC	520	NC	2,000	98	5.2	200	NC	NC	8.72	80	NC	NC	NC	NC	5,200	NC
MW 6D	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<b>20</b>	<b>87</b>	15	<1	<1	<1	2.6	<1	<1	<5	<1	<1	<1
	11/6/2014	<1	<5	<5	<1	<5	<1	<5	<b>17</b>	<b>29</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	<5	<1	<5	<1	<5	<b>18</b>	<b>30</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/4/2016	<1	<5	<5	<1	<5	<1	<5	<b>93.4</b>	<b>133</b>	22.7	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	6/27/2017	<1	<2	<2	<1	<2	<1	<2	<b>19.0</b>	<b>22</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>13.0</b>	<b>20</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 6DS	2/24/2014	<1	<1	<1	<1	<1	<1	<1	<b>100</b>	<b>133</b>	<b>124</b>	<1	<1	<1	4.5	<1	<1	<5	<1	<1	<1
	11/6/2014	<1	<5	<5	<1	<5	<1	<5	<b>14</b>	<b>110</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<b>110</b>	<b>210</b>	20	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/3/2016	<1	<5	<5	<1	<5	<1	<5	<b>5.9</b>	<b>32.8</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>73.0</b>	<b>24</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	3/28/2018	<1	<1	<1	<1	<1	<1	<1	4.5	<b>34.1</b>	37.9	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	6/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>12.2</b>	<b>67.1</b>	<b>121</b>	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
7/24/2018	<1	<1	<1	<1	<1	<1	<1	<b>6.2</b>	<b>53.1</b>	25.1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	
MW-7	5/1/2009	<1	NA	NA	<1	NA	<1	NA	<b>1,900</b>	<b>240</b>	NA	<1	<1	NA	NA	<1	<1	<5	<1	NA	<1
	2/24/2014	<1	<b>3.8</b>	<1	<1	<1	<1	<1	<b>2,400</b>	<b>170</b>	25	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	11/6/2014	<1	<b>9.2</b>	<5	<1	<5	<1	<5	<b>14,000</b>	<b>180</b>	27	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/4/2015	<1	<500	<500	<1	<500	<1	<500	<b>16,000</b>	<500	<500	<1	<1	<500	<500	<1	<1	<5	<1	<500	<1
	6/27/2017	<1	<b>16</b>	<2	<1	2.6	<1	2	<b>13,000</b>	<b>490</b>	<b>370.0</b>	<1	<1	<5	4	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<b>14</b>	<2	<1	3	<1	<2	<b>19,000</b>	<b>600</b>	<b>240.0</b>	<1	<1	<5	4	<1	<1	<5	<1	<2	<1
	1/19/2018	<1	<b>13</b>	<2	<1	3.6	<1	<2	<b>17,000</b>	<b>330</b>	<b>900</b>	<1	<1	<5	3.5	<1	<1	<5	<1	<2	<1
4/26/2018	26.3	<b>11.5</b>	<1	<1	2.8	<1	3.3	<b>18,800</b>	<b>208</b>	<b>503</b>	<1	<1	<1	3.8	<1	<1	<5	<1	<1	<1	
7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>14,300</b>	<b>260</b>	<b>178</b>	<1	<1	<1	2.2	<1	<1	<5	<1	<1	<1	
MW 8	11/7/2014	<1	<5	<5	<1	<5	<1	<5	<b>70</b>	<b>12</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<b>70</b>	<b>9.6</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/4/2016	<1	<5	<5	<1	<5	<1	<5	<b>46</b>	<b>7.1</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	4/26/2018	<1	<1	<1	<1	<1	<1	<1	<b>69.7</b>	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>39.5</b>	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW-8I	10/4/2018	<1	<1	<1	<1	<1	<1	<b>17.0</b>	<b>6.0</b>	<1	<1	<1	<1	5.6	<1	<1	<5	<1	<1	<1	

Notes:  
 µg/L = micrograms per liter  
 RRS = Risk Reduction Standard  
 <5.0 = Analyte not detected above the laboratory detection limit  
**5.7** = Exceeds Delineation Criteria  
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**TABLE 4  
Summary of Groundwater Analytical Results  
Volatile Organic Compounds**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI No. 10901



Sample ID	Date Sampled	1,1,1,2 Tetrachloroethane (µg/L)	1,1,2,2 Tetrachloroethane (µg/L)	1,1,1,2 Trichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,2 Dichloroethane (µg/L)	trans 1,2-Dichloroethane (µg/L)	Tetrachloroethane (µg/L)	Trichloroethane (µg/L)	cis 1,2-dichloroethane (µg/L)	Vinyl Chloride (µg/L)	Bromodichloromethane (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	4-Methyl-2-pentanone (MIBK) (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylene (total) (µg/L)
Delineation Criteria (Type 1 RRS)		70	0.2	5	4,000	7	5.0	100	5	5	70	2.0	NL	5	80	700	5.0	NL	20	1,000	10,000
Type 2 RRS		NC	0.89	5	NC	100	NC	310	19	5	70	NC	NC	5.4	80	NC	NC	NC	NC	1,000	NC
Type 4 RRS		NC	1.3	5	NC	520	NC	2,000	98	5.2	200	NC	NC	8.72	80	NC	NC	NC	NC	5,200	NC
MW 9S	11/7/2014	<1	<5	<5	<1	<5	<1	<5	1600	600	240	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	10	<1	<5	<1	<5	490	540	260	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	6/27/2017	<1	<2	<2	<1	<2	<1	<2	140	240	250	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	1200	260	240	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	2/28/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	6/25/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<2
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 9D	11/6/2014	<1	<5	<5	<1	<5	<1	<5	<5	7.8	<5	<1	<1	<5	16	<1	<1	<5	<1	<5	<1
	9/2/2015	<1	<5	<5	<1	<5	<1	<5	7.1	31	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	13.9	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<5	18	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	3/28/2018	<1	<1	<1	<1	<1	<1	<1	1.7	13.7	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	6/25/2018	<1	<1	<1	<1	<1	<1	<1	2.2	17.5	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	4.8	23.5	5.0	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 10	11/7/2014	<1	<5	<5	<1	<5	<1	<5	<5	6.1	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW 11	11/7/2014	<1	<5	<5	<1	<5	<1	<5	110	59	<5	<1	<1	44	<5	<1	<1	<5	<1	<5	<1
	9/4/2015	<1	<5	<5	<1	<5	<1	<5	97	55	<5	<1	<1	43	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	129	64.7	<5	<1	<1	52.6	<5	<1	<1	<5	<1	<5	<1
	7/25/2018	<1	<5	<5	<1	<5	<1	<5	74.7	31.0	2.9	<1	<1	<1	<5	<1	<1	<5	<1	<5	<1
MW-12	10/12/2017	<1	<2	<2	<1	13	<1	<2	64,000	2,800	140	<1	<1	<5	4.1	<1	<1	<5	<1	4.2	<1
	2/28/2018	<1	<1	<1	<1	67.3	<1	129	8,050	1,540	11,700	<1	<1	<1	<1	<1	<1	<5	<1	3.3	<1
	5/30/2018	4.2	<1	<1	<1	70.9	<1	<1	6,110	447	13,000	3.6	<1	<1	<1	<1	<1	<5	<1	4.2	<1
	7/25/2018	<1	<1	<1	<1	46.0	<1	<1	5,350	1,090	10,000	3.2	<1	<1	<1	<1	<1	<5	<1	4.6	<1
MW 12D	3/3/2016	<1	<5	<5	<1	<5	<1	<5	35.8	140	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	8.8	31	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	3/28/2018	<1	<1	<1	<1	<1	<1	<1	7.2	27.3	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	6/25/2018	<1	<1	<1	<1	<1	<1	<1	12.8	45.3	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	13.5	51.2	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1

Notes:

- µg/L = micrograms per liter
- RRS = Risk Reduction Standard
- <5.0 = Analyte not detected above the laboratory detection limit
- 5.7 = Exceeds Delineation Criteria
- 190 = Exceeds Industrial RRS
- NA = Not Analyzed

**TABLE 4**  
**Summary of Groundwater Analytical Results**  
**Volatile Organic Compounds**



Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI No. 10901

Sample ID	Date Sampled	1,1,1,2 Tetrachloroethane (µg/L)	1,1,2,2 Tetrachloroethane (µg/L)	1,1,2 Trichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,2 Dichloroethane (µg/L)	trans 1,2-Dichloroethane (µg/L)	Tetrachloroethane (µg/L)	Trichloroethane (µg/L)	cis 1,2-dichloroethane (µg/L)	Vinyl Chloride (µg/L)	Bromodichloromethane (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	4-Methyl-2-pentanone (MIBK) (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylene (total) (µg/L)
Delineation Criteria (Type 1 RRS)		70	0.2	5	4,000	7	5.0	100	5	5	70	2.0	NL	5	80	700	5.0	NL	20	1,000	10,000
Type 2 RRS		NC	0.89	5	NC	100	NC	310	19	5	70	NC	NC	5.4	80	NC	NC	NC	NC	1,000	NC
Type 4 RRS		NC	1.3	5	NC	520	NC	2,000	98	5.2	200	NC	NC	8.72	80	NC	NC	NC	NC	5,200	NC
MW-13	10/12/2017	<1	<b>36</b>	<2	<1	<b>30</b>	<1	15	<b>72,000</b>	<b>2,200</b>	<b>1,600</b>	<1	<1	<5	16	<1	<1	<5	<1	130	<1
	1/19/2018	<1	<b>30</b>	<2	<1	<b>15</b>	<1	8.8	<b>44,000</b>	<b>1,200</b>	<b>2,000</b>	<1	<1	<5	11	<1	<1	<5	<1	110	<1
	3/28/2018	<1	<b>14.4</b>	<1	<1	<b>10.4</b>	<1	<1	<b>31,400</b>	<b>626</b>	<b>869</b>	<1	<1	<1	5.3	<1	<1	<5	<1	52	<1
	7/26/2018	<1	<b>18.4</b>	<1	2.7	<b>14.3</b>	<1	<1	<b>49,500</b>	<b>951</b>	<b>1,450</b>	<1	<1	<1	7.7	1.5	<b>385</b>	<5	2.7	70.1	4.9
MW 13D	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<b>140</b>	<b>770</b>	5.5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/3/2016	<1	<5	<5	<1	<5	<1	<5	<b>320</b>	<b>1,200</b>	13.2	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	6/27/2017	<1	<2	<2	<1	<2	<1	<2	<b>390</b>	<b>880</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>4,100</b>	<b>1,000</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	2/28/2018	<1	<1	<1	<1	<1	<1	<1	<b>592</b>	<b>890</b>	28.3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	5/30/2018	<1	<1	<1	<1	<1	<1	<1	<b>497</b>	<b>1,070</b>	38.6	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>660</b>	<b>1,210</b>	26.6	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
7/25/18 (DUP)	<1	<1	<1	<1	<1	<1	<1	<b>699</b>	<b>1,270</b>	15.1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	
MW 14	9/3/2015	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	3/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW 15D	3/4/2016	<1	<5	<5	<1	<5	<1	<5	<b>1,540</b>	<b>89</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>1,300</b>	<b>110</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	2/28/2018	<1	<1	<1	<1	<1	<1	<1	<b>1,520</b>	<b>97</b>	7.1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	5/30/2018	<1	<1	<1	<1	<1	<1	<1	<b>2,210</b>	<b>137</b>	10.4	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>2,060</b>	<b>157</b>	4.1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 16	3/3/2016	<1	<5	<5	<1	<5	<1	<5	<b>26.1</b>	<b>24.9</b>	5.2	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>25.5</b>	<b>14.9</b>	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 17	3/4/2016	<1	<5	<5	<1	<5	<1	<5	<b>553</b>	<b>158</b>	15.5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	12/15/2016	<1	<5	<5	<1	<5	<1	<5	<b>554</b>	<b>183</b>	19.3	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	4/26/2018	<1	<1	<1	<1	<1	<1	<1	<b>312</b>	<b>111</b>	14.0	<1	<1	<1	1.8	<1	<1	<5	<1	<1	<1
	6/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>323</b>	<b>120</b>	14.3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>225</b>	<b>114</b>	15.9	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW 18	9/2/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	12/15/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
MW-19	12/15/2016	<1	<5	<5	<1	<5	<1	<5	<5	<b>6.2</b>	<5	<1	<1	<5	<5	<1	<1	<5	<1	<5	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	<1	2.7	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW-19I	10/4/2018	<1	<1	<1	<1	<1	<1	<1	<1	4.7	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
MW-20	12/15/2016	<1	<5	<5	<1	<5	<1	<5	<5	<5	<5	<1	<5	<5	<5	<1	<1	<5	<1	<5	<1
	7/24/2018	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Notes:  
 µg/L = micrograms per liter  
 RRS = Risk Reduction Standard  
 <5.0 = Analyte not detected above the laboratory detection limit  
**5.7** = Exceeds Delineation Criteria  
**190** = Exceeds Industrial RRS  
 NA = Not Analyzed

**TABLE 4**  
**Summary of Groundwater Analytical Results**  
**Volatile Organic Compounds**



Roper Pump Company  
 3475 Old Maysville Road  
 Commerce, Jackson County, Georgia  
 HSI No. 10901

Sample ID	Date Sampled	1,1,1,2 Tetrachloroethane (µg/L)	1,1,2,2 Tetrachloroethane (µg/L)	1,1,2 Trichloroethane (µg/L)	1,1 Dichloroethane (µg/L)	1,2 Dichloroethane (µg/L)	trans 1,2-Dichloroethene (µg/L)	Tetrachloroethene (µg/L)	Trichloroethene (µg/L)	cis 1,2-dichloroethene (µg/L)	Vinyl Chloride (µg/L)	Bromodichloromethane (µg/L)	Benzene (µg/L)	Chloroform (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	4-Methyl-2-pentanone (MIBK) (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylene (total) (µg/L)	
Delineation Criteria (Type 1 RRS)		70	0.2	5	4,000	7	5.0	100	5	5	70	2.0	NL	5	80	700	5.0	NL	20	1,000	10,000
Type 2 RRS		NC	0.89	5	NC	100	NC	310	19	5	70	NC	NC	5.4	80	NC	NC	NC	NC	1,000	NC
Type 4 RRS		NC	1.3	5	NC	520	NC	2,000	98	5.2	200	NC	NC	8.72	80	NC	NC	NC	NC	5,200	NC
MW-21	10/12/2017	<1	<b>3.2</b>	<2	<1	<b>15</b>	<1	2.3	<b>39,000</b>	<b>2,900</b>	<b>360</b>	<1	<1	<5	5.5	<1	<1	<5	<1	29	<1
	1/19/2018	<1	<2	<2	<1	<b>16</b>	<1	9.0	<b>2,400</b>	<b>1,100</b>	<b>5,100</b>	<1	<1	<5	<2	<1	<1	<5	<1	8.2	<1
	4/26/2018	3.9	<1	<1	<1	<b>70.2</b>	<1	<b>137</b>	<b>2,120</b>	<b>787</b>	<b>11,400</b>	<b>3.9</b>	<1	<1	<1	<1	<b>13.4</b>	<5	<1	4.3	<1
	7/25/2018	<1	<1	<1	<1	<b>48.1</b>	1.5	<1	<b>6,540</b>	<b>1,170</b>	<b>14,800</b>	<1	<1	<1	<1	<1	1.7	<5	<1	2.7	<1
	7/25/2018 (DUP)	<1	<1	<1	<1	<b>50.3</b>	1.6	<1	<b>6,020</b>	<b>1,100</b>	<b>14,000</b>	<1	<1	<1	<1	<1	2.9	<5	<1	2.8	<1
MW 21D	4/18/2017	<1	<2	<2	<1	<2	<1	<2	<b>140</b>	<b>62</b>	<5	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	6/27/2017	<1	<2	<2	<1	<2	<1	<2	<b>220</b>	<b>90</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>1,000</b>	<b>190</b>	<70	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	2/28/2018	<1	<1	<1	<1	<1	<1	<1	<b>7.1</b>	4.1	68.0	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	5/30/2018	<1	<1	<1	<1	<1	<1	<1	<b>8.0</b>	2.7	<b>148</b>	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
7/24/2018	<1	<1	<1	<1	<1	<1	<1	3.9	3.8	37.8	<1	<1	<1	<1	<1	<1	<b>5.8</b>	<1	<1	<1	
MW-22	10/12/2017	<1	<b>24</b>	<2	<1	<b>14</b>	<1	9.8	<b>47,000</b>	<b>790</b>	<b>680</b>	<1	<1	<5	14	<1	<1	<5	<1	37.0	<1
	1/19/2018	<1	<b>19</b>	<2	<1	<b>7.2</b>	<1	4.8	<b>38,000</b>	<1000	<b>1,600</b>	<1	<1	<5	7.3	<1	<1	<5	<1	26	<1
	4/26/2018	<b>111</b>	<b>24.0</b>	<1	<1	<b>9.3</b>	<1	8.5	<b>102,000</b>	<b>1,280</b>	<b>1,050</b>	1.1	<1	<1	9.6	<1	<1	<5	<1	39.5	<1
	5/30/2018	<b>129</b>	<b>21.6</b>	<1	<1	<b>11.0</b>	<1	<1	<b>112,000</b>	<b>1,060</b>	<b>1,090</b>	1.2	<1	<1	9.6	<1	<1	<5	<1	41.0	2.1
	7/26/2018	<1	<b>25.0</b>	<1	<1	<1	<1	<1	<b>100,000</b>	<b>1,210</b>	<b>931</b>	<1	<1	<1	7.7	<1	<1	<5	<1	52.7	1.8
MW-23	10/12/2017	<1	<2	<2	<1	<2	<1	<2	<b>5,500</b>	<b>3,700</b>	<b>700</b>	<1	<1	<5	5.8	<1	<1	<5	<1	2.5	<1
	1/19/2018	<1	<2	<2	<1	<2	<1	<2	<b>42</b>	<b>200</b>	<b>650</b>	<1	<1	<5	<2	<1	<1	<5	<1	<2	<1
	3/28/2018	<1	<1	<1	<1	3.5	<1	<1	<b>115</b>	<b>148</b>	<b>1,070</b>	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
	7/25/2018	<1	<1	<1	<1	<1	<1	<1	<b>66.2</b>	<b>306</b>	<b>1,110</b>	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
B 1	5/22/2009	<5	<5	<5	<5	<5	<5	29	<b>600</b>	<b>2,500</b>	<b>2,300</b>	<5	<5	<5	16	<5	<5	<5	<5	<5	<5
B 10	5/21/2009	<5	<b>100</b>	<b>86</b>	<5	<b>37</b>	<5	47	<b>93,000</b>	<b>1,400</b>	<b>4,500</b>	<5	<5	<5	23	<5	<5	<5	<5	130	<5
B 11	5/21/2009	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B 20	5/22/2009	<5	<5	<5	<5	<5	<5	<5	<b>530</b>	<b>7</b>	<b>9</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SB 1	5/21/2009	<5	<5	<5	<5	<5	<5	<5	<b>190</b>	<b>810</b>	<b>250</b>	<5	<5	<5	10	<5	<5	<5	<5	<5	<5
SB 9	5/22/2009	<5	<5	<5	<5	<5	<5	<5	<b>4,900</b>	<b>1,400</b>	<b>90</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 1	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<5	<b>14</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 2	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 3	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 4	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<b>9</b>	<b>6.7</b>	<5	<5	<5	<b>130</b>	<5	<5	<5	<5	<5	<5	<5
TW 5	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<5	<b>25</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 6	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<b>19</b>	<b>6</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 7	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<b>33</b>	<b>60</b>	9.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TW 8	5/27/2009	<5	<5	<5	<5	<5	<5	<5	<b>37</b>	<b>180</b>	<b>230</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Notes:

- µg/L = micrograms per liter
- RRS = Risk Reduction Standard
- <5.0 = Analyte not detected above the laboratory detection limit
- 5.7** = Exceeds Delineation Criteria
- 190** = Exceeds Industrial RRS
- NA = Not Analyzed

Prepared by: MCP Date: 10/12/2018  
 Reviewed by: RTM Date: 10/28/2018

**TABLE 5**  
**Projected VRP Schedule**



Responsive partner.  
Exceptional outcomes.

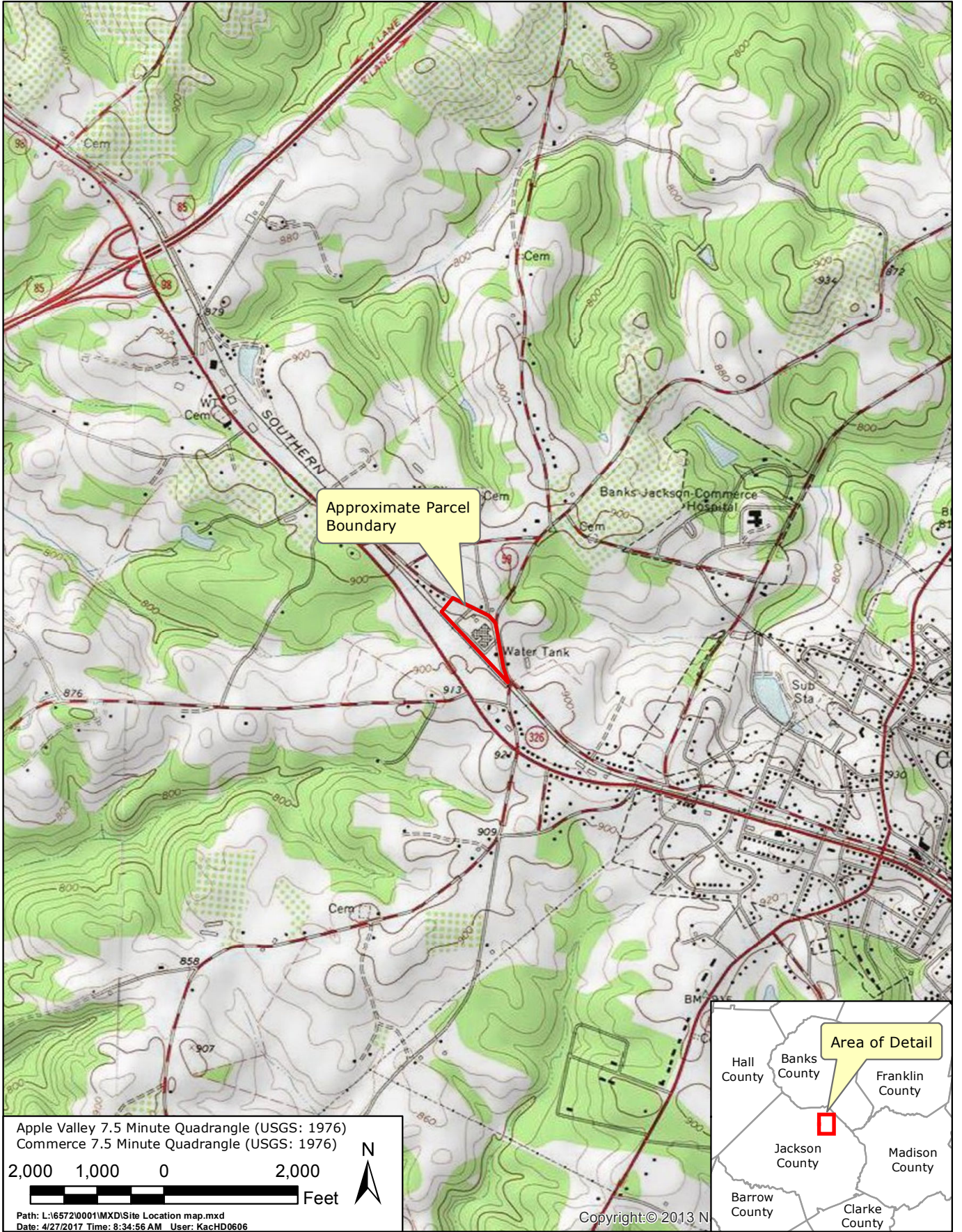
Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI No. 10901

<b>Date</b>	<b>Activity</b>
November 2018	Dehalococcoides injection
December 2018	Performance Groundwater Sampling
December 2018	Preliminary Groundwater Modeling
March 2019	Preparation of a Compliance Status Report



## Figures

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ROPER PUMP COMPANY - HSI NO. 10901

Site Location Map





OCT 2018

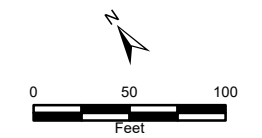
Figure 1

Doc#/Time: 10/30/2018 6:54:55 AM

Document Path: L:\6572\0001\MXD\7th Progress Report\Fig. 2 Site Detail Map\_Cad.mxd



-  Monitoring Wells
-  Approximate Parcel Boundary



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

**WENCK ASSOCIATES**  
Responsive partner. Exceptional outcomes.

1080 HOLCOMB BRIDGE RD  
BLDG 100, SUITE 190  
ROSWELL, GA 30076

P: 678-987-5840  
F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
HSI NO. 10901**

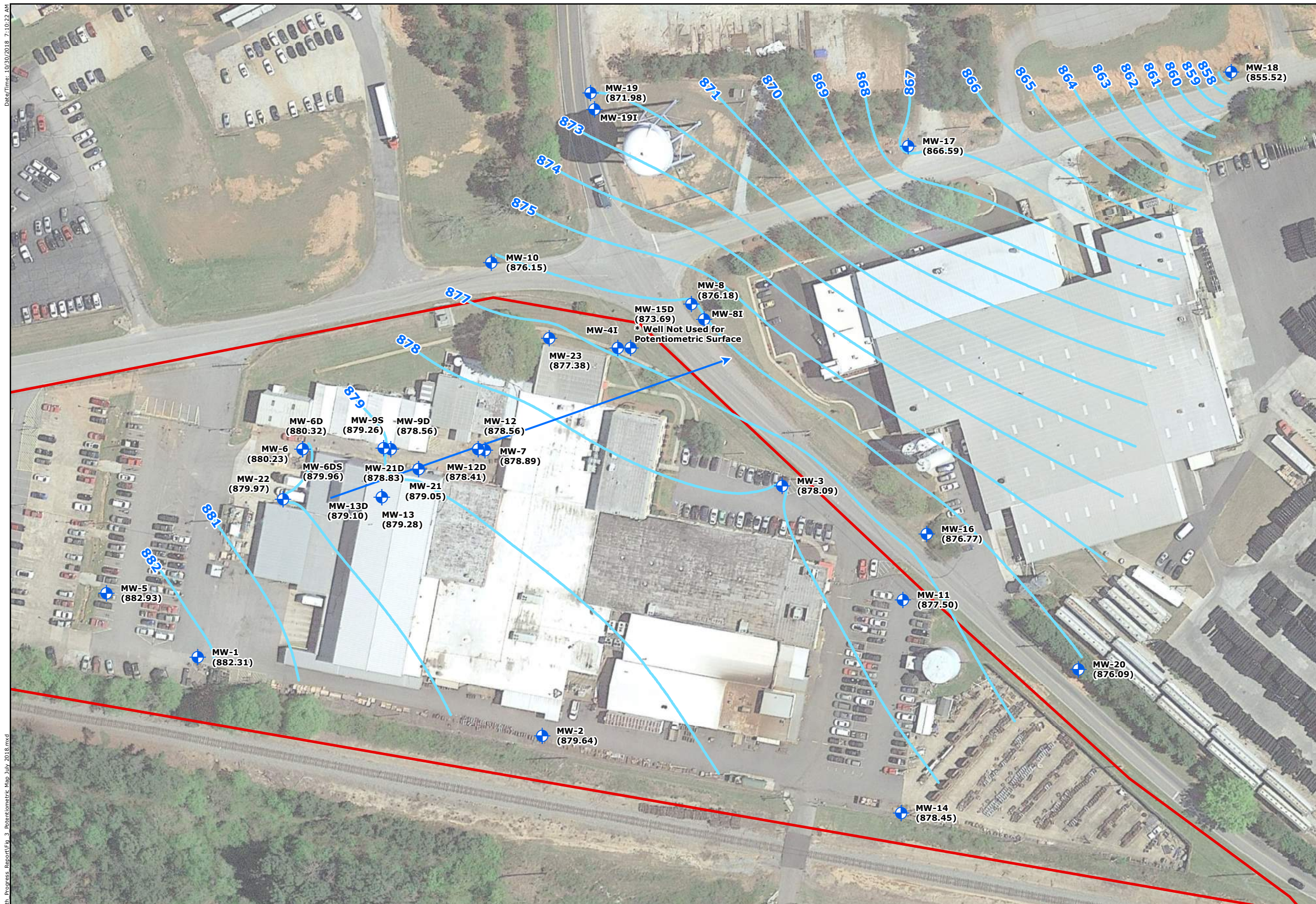
ROPER PUMP COMPANY

3475 OLD MAYSVILLE RD  
COMMERCE, JACKSON COUNTY, GA

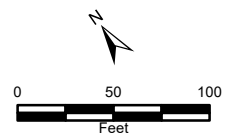
SHEET TITLE			
SITE DETAIL MAP			
DWN BY <b>KJM</b>	CHK'D <b>AJH</b>	APP'D <b>AJH</b>	DWG DATE <b>10/30/2018</b>
PROJECT NO. <b>6572-0001</b>		SCALE <b>AS SHOWN</b>	FIGURE NO. <b>2</b>
REV NO. <b>0</b>			

Date/Time: 10/30/2018 7:10:22 AM

Document Path: L:\6572\0001\MXD\7th\_Progress\_Report\Fig\_3\_Potentiometric\_Map\_July\_2018.mxd



- Monitoring Wells
- Approximate Parcel Boundary
- Groundwater Contour
- Groundwater Flow Direction



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

**WENCK ASSOCIATES**  
Responsive partner. Exceptional outcomes.

1080 HOLCOMB BRIDGE RD  
BLDG 100, SUITE 190  
ROSWELL, GA 30076

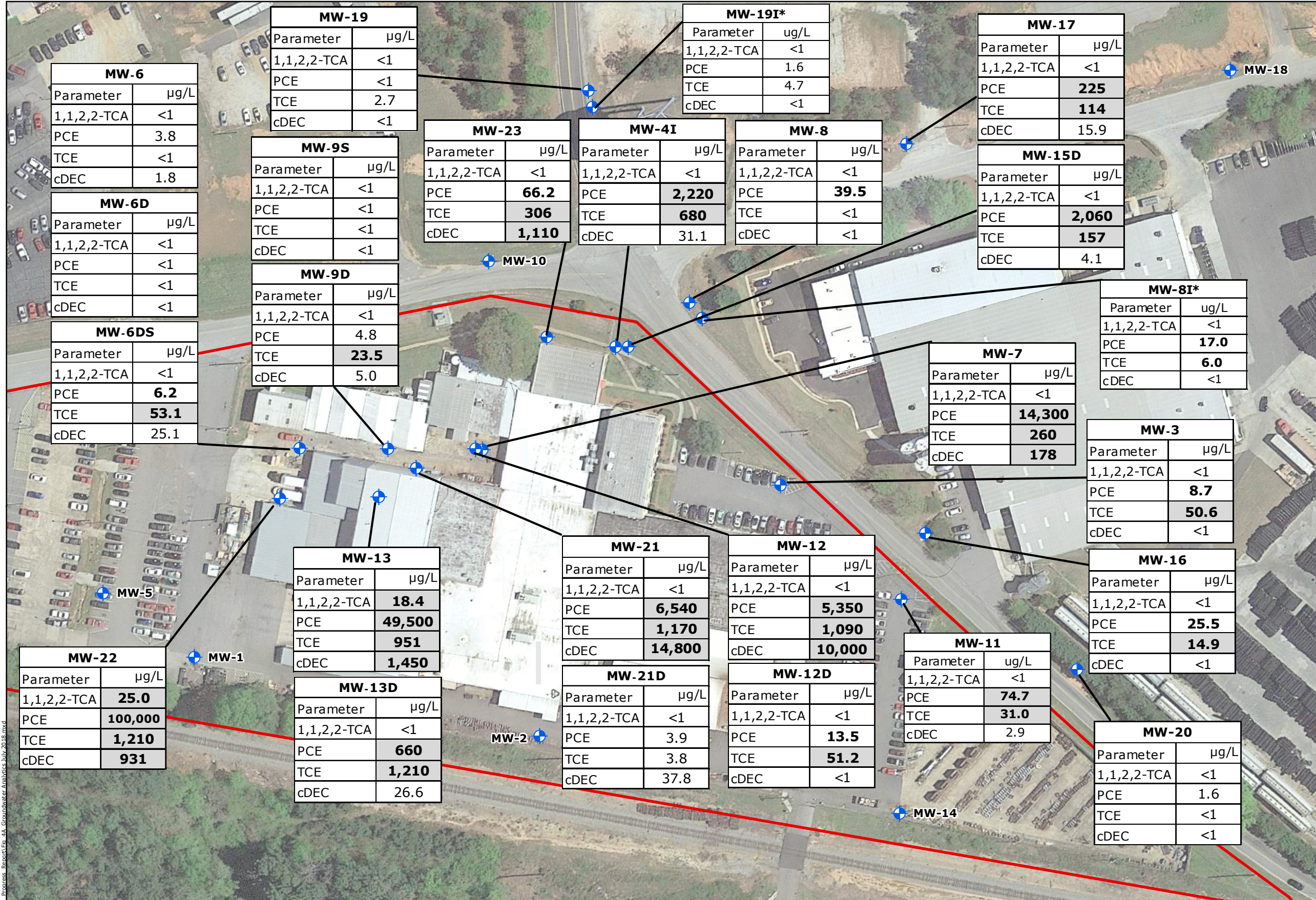
P: 678-987-5840  
F: 678-987-5877



PROJECT TITLE  
**ROPER PUMP COMPANY  
HSI NO. 10901**

**ROPER PUMP COMPANY**

3475 OLD MAYSVILLE RD  
COMMERCE, JACKSON COUNTY, GA

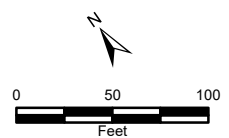
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<b>POTENTIOMETRIC SURFACE MAP JULY 2018</b>			
DWN BY <b>KJM</b>	CHK'D <b>AJH</b>	APP'D <b>AJH</b>	DWG DATE <b>10/30/2018</b>
PROJECT NO. <b>6572-0001</b>		SCALE <b>AS SHOWN</b>	FIGURE NO. <b>3</b>
REV NO. <b>0</b>			



 Monitoring Wells  
 Approximate Parcel Boundary

**Notes**

1, 1, 2, 2 - TCA: 1, 1, 2, 2 - Tetrachloroethane  
 PCE: Tetrachloroethene  
 TCE: Trichloroethene  
 cDEC: Cis -1, 2 - Dichloroethene  
 ug/L: micrograms per liter  
**Bold = Exceeds Delineation Criteria**  
**Gray = Exceeds Industrial RRS**  
 \* Sample collected on 10/4/2018



Document Path: L:\652\0001\MXD\7th Process Report\Eg\_4A\_Groundwater Analyticals July 2018.mxd

MW-6	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	3.8
TCE	<1
cDEC	1.8

MW-19	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<1
TCE	2.7
cDEC	<1

MW-19I*	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	1.6
TCE	4.7
cDEC	<1

MW-17	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>225</b>
TCE	<b>114</b>
cDEC	15.9

MW-9S	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<1
TCE	<1
cDEC	<1

MW-23	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>66.2</b>
TCE	<b>306</b>
cDEC	<b>1,110</b>

MW-4I	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>2,220</b>
TCE	<b>680</b>
cDEC	31.1

MW-8	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>39.5</b>
TCE	<1
cDEC	<1

MW-15D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>2,060</b>
TCE	<b>157</b>
cDEC	4.1

MW-9D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	4.8
TCE	<b>23.5</b>
cDEC	5.0

MW-8I*	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>17.0</b>
TCE	<b>6.0</b>
cDEC	<1

MW-6D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<1
TCE	<1
cDEC	<1

MW-6DS	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>6.2</b>
TCE	<b>53.1</b>
cDEC	25.1

MW-7	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>14,300</b>
TCE	<b>260</b>
cDEC	<b>178</b>

MW-3	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>8.7</b>
TCE	<b>50.6</b>
cDEC	<1

MW-13	
Parameter	ug/L
1,1,2,2-TCA	<b>18.4</b>
PCE	<b>49,500</b>
TCE	<b>951</b>
cDEC	<b>1,450</b>

MW-21	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>6,540</b>
TCE	<b>1,170</b>
cDEC	<b>14,800</b>

MW-12	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>5,350</b>
TCE	<b>1,090</b>
cDEC	<b>10,000</b>

MW-16	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>25.5</b>
TCE	<b>14.9</b>
cDEC	<1

MW-22	
Parameter	ug/L
1,1,2,2-TCA	<b>25.0</b>
PCE	<b>100,000</b>
TCE	<b>1,210</b>
cDEC	<b>931</b>

MW-13D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>660</b>
TCE	<b>1,210</b>
cDEC	26.6

MW-21D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	3.9
TCE	3.8
cDEC	37.8

MW-12D	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>13.5</b>
TCE	<b>51.2</b>
cDEC	<1

MW-11	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	<b>74.7</b>
TCE	<b>31.0</b>
cDEC	2.9

MW-20	
Parameter	ug/L
1,1,2,2-TCA	<1
PCE	1.6
TCE	<1
cDEC	<1

REV	REVISION DESCRIPTION	DWN	APP	REV DATE



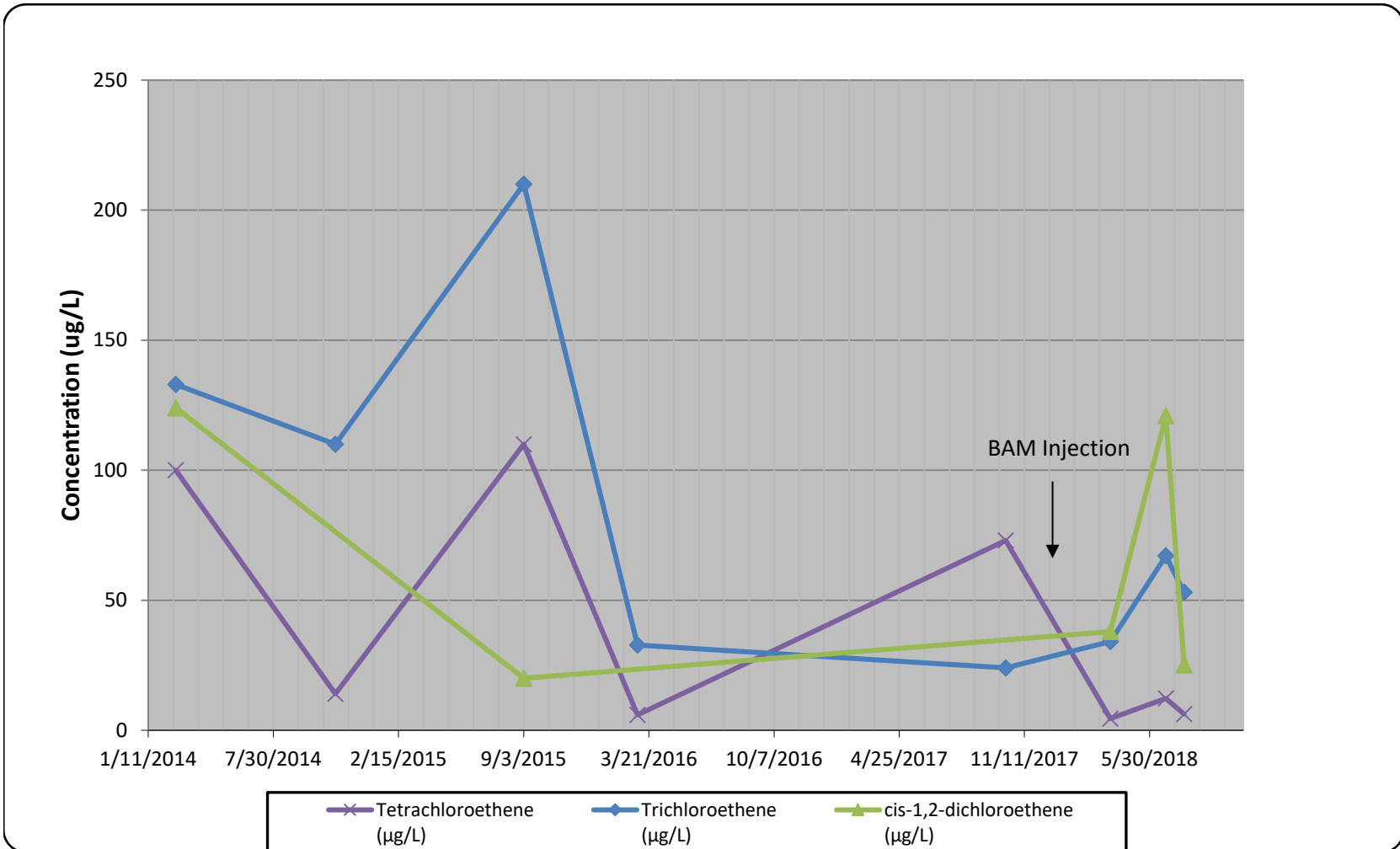
Responsive partner. Exceptional outcomes.  
 1080 HOLCOMB BRIDGE RD  
 BLDG 100, SUITE 190  
 ROSWELL, GA 30076  
 P: 678-987-5840  
 F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY**  
**HSI NO. 10901**  
**ROPER PUMP COMPANY**  
 3475 OLD MAYSVILLE RD  
 COMMERCES, JACKSON COUNTY, GA

SHEET TITLE			
GROUNDWATER ANALYTICAL RESULTS JULY 2018			
DWN BY	CHK'D	APP'D	DWG DATE
KJM	AJH	AJH	10/30/2018
SCALE		AS SHOWN	
PROJECT NO.	FIGURE NO.	REV NO.	
6572-0001	4	0	

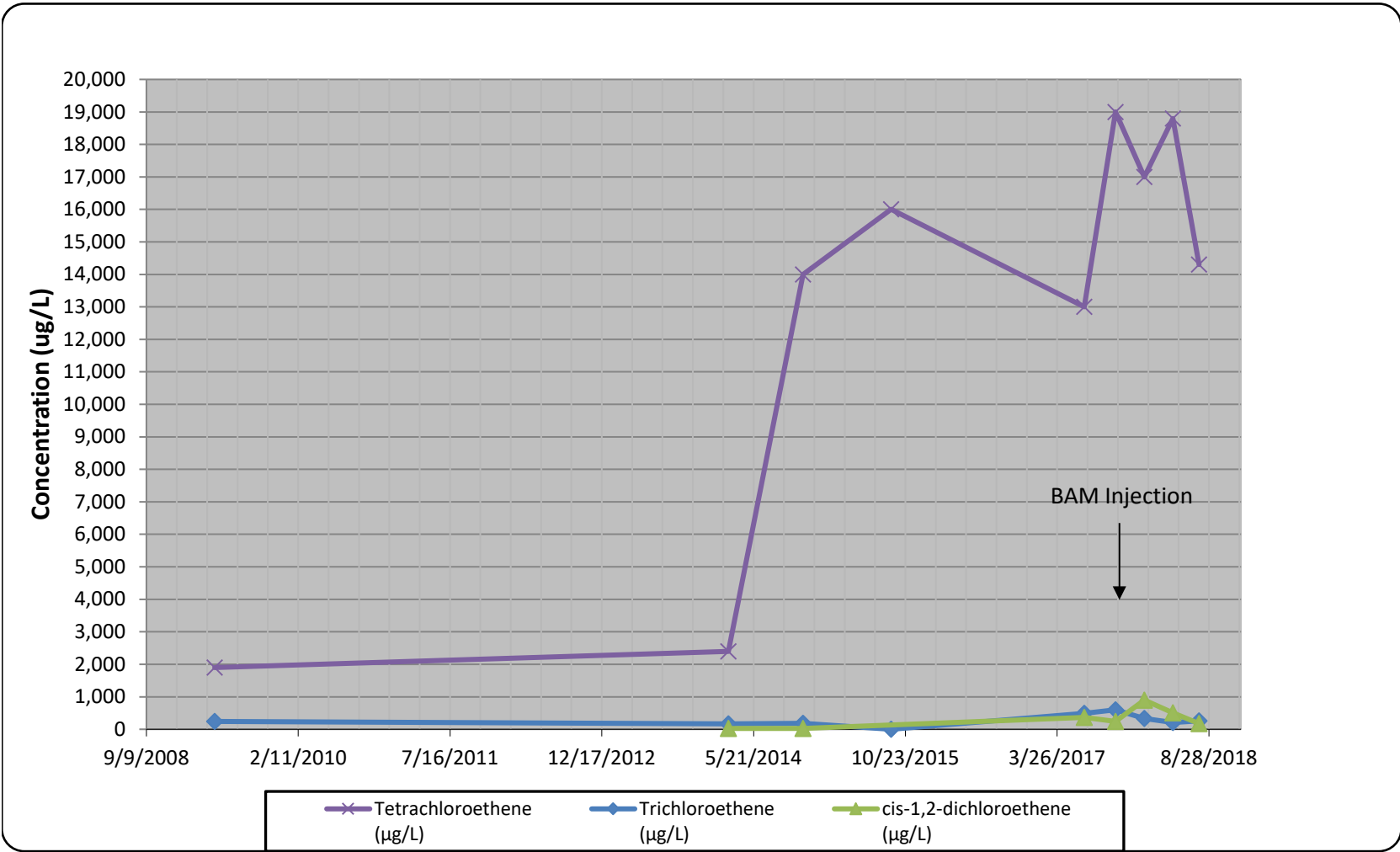
**Figure 4B: Analytical Trends at Well MW-6DS**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



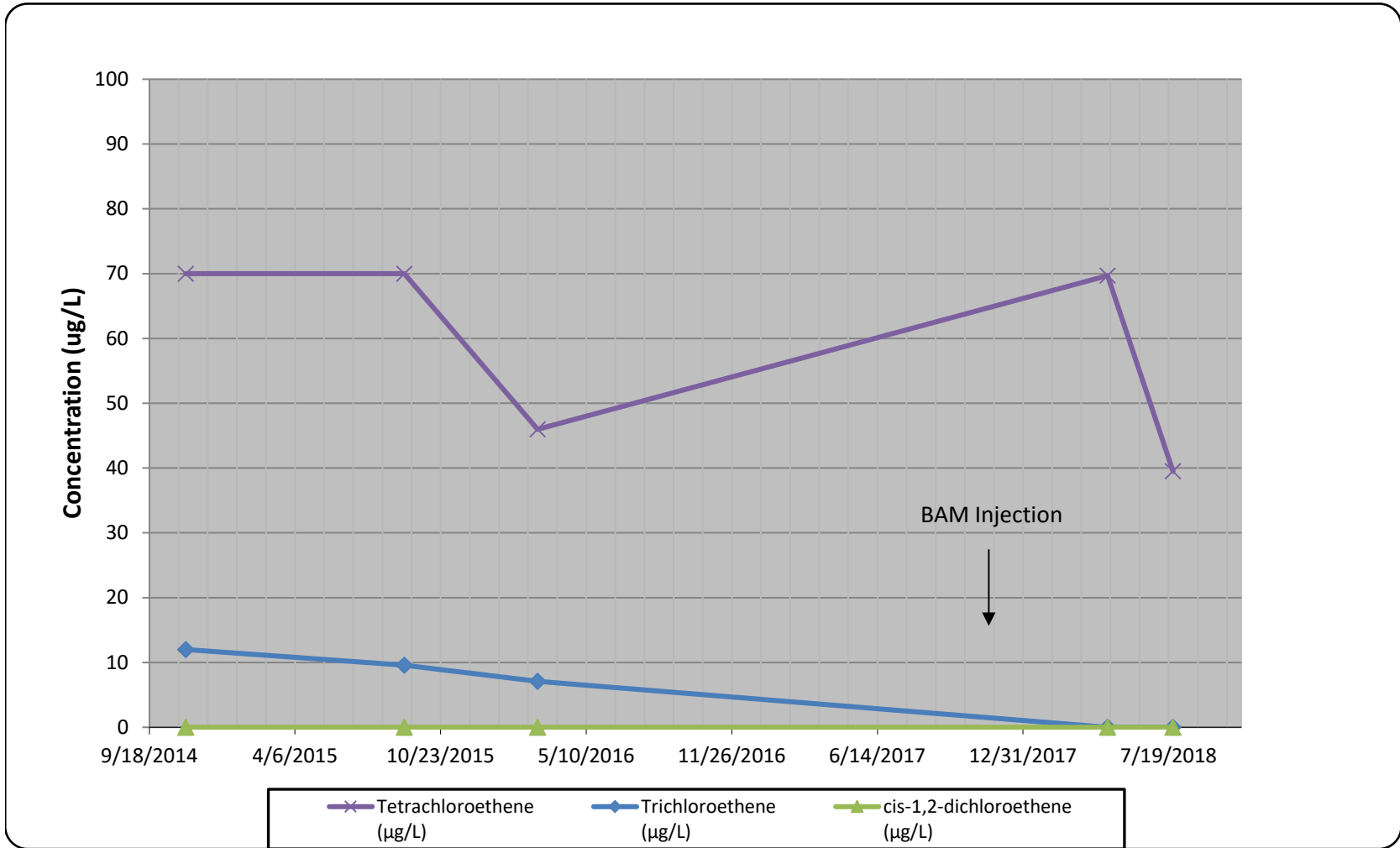
**Figure 4C: Analytical Trends at Well MW-7**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



**Figure 4D: Analytical Trends at Well MW-8**

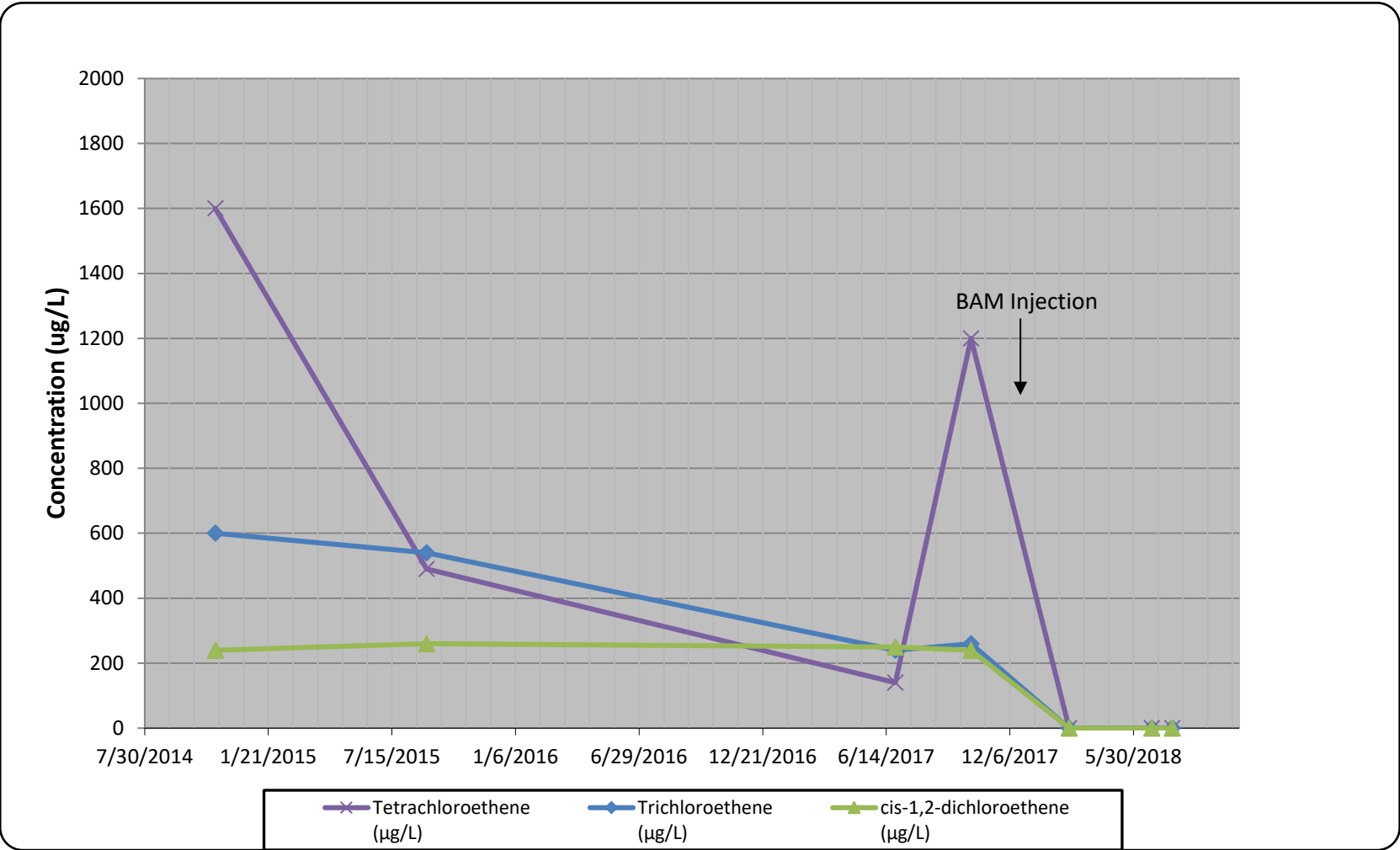
Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901





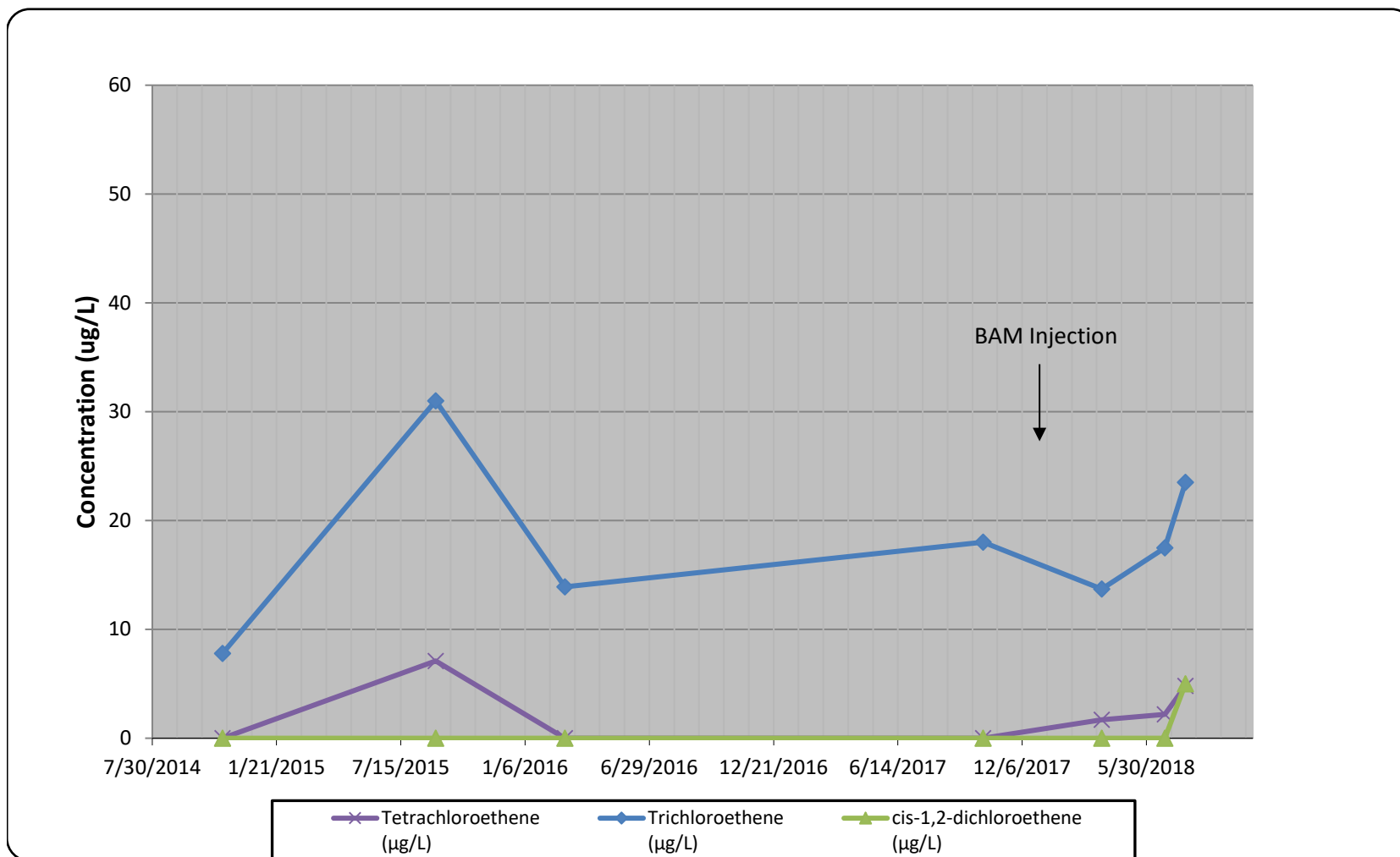
**Figure 4E: Analytical Trends at Well MW-9S**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



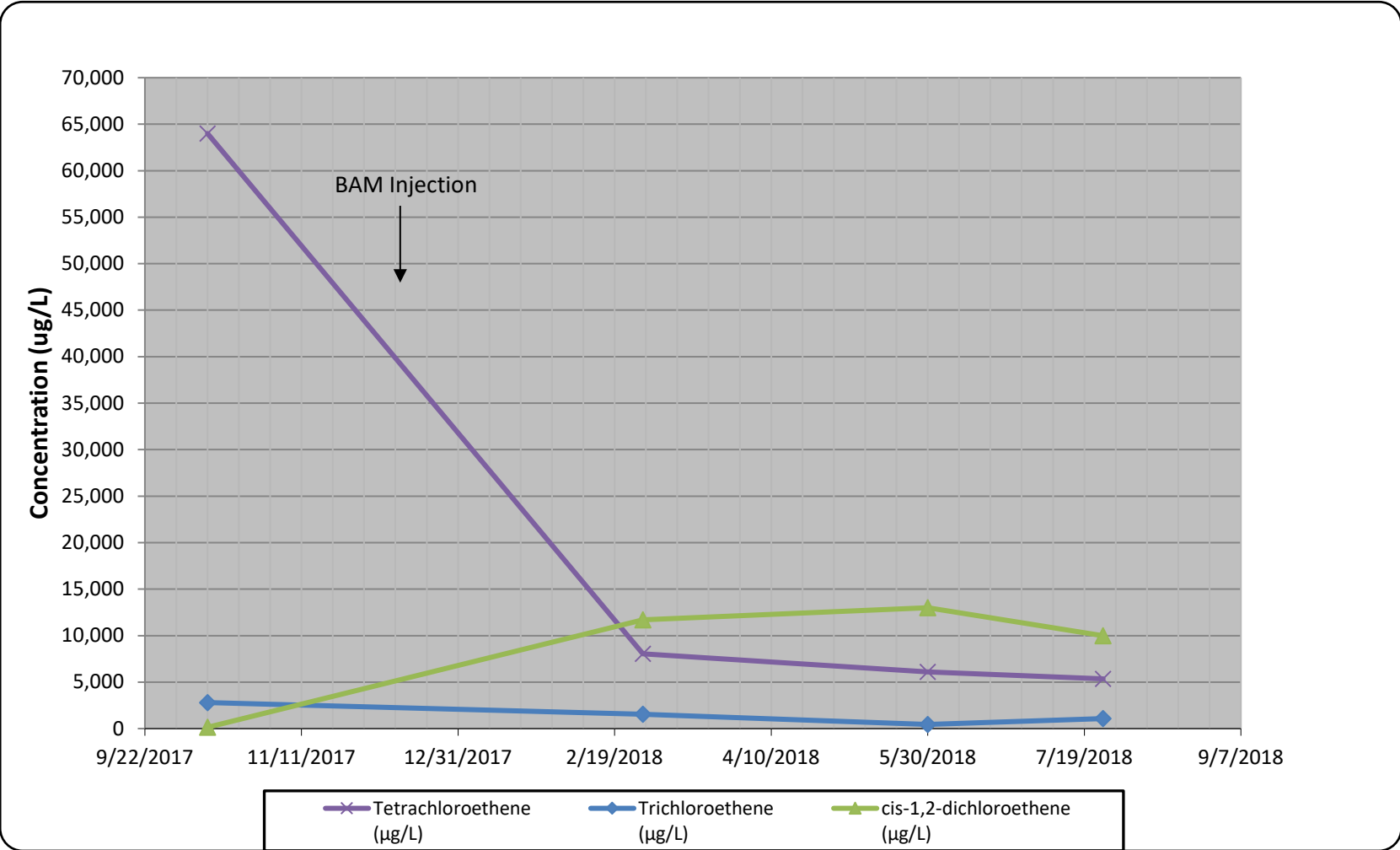
**Figure 4F: Analytical Trends at Well MW-9D**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



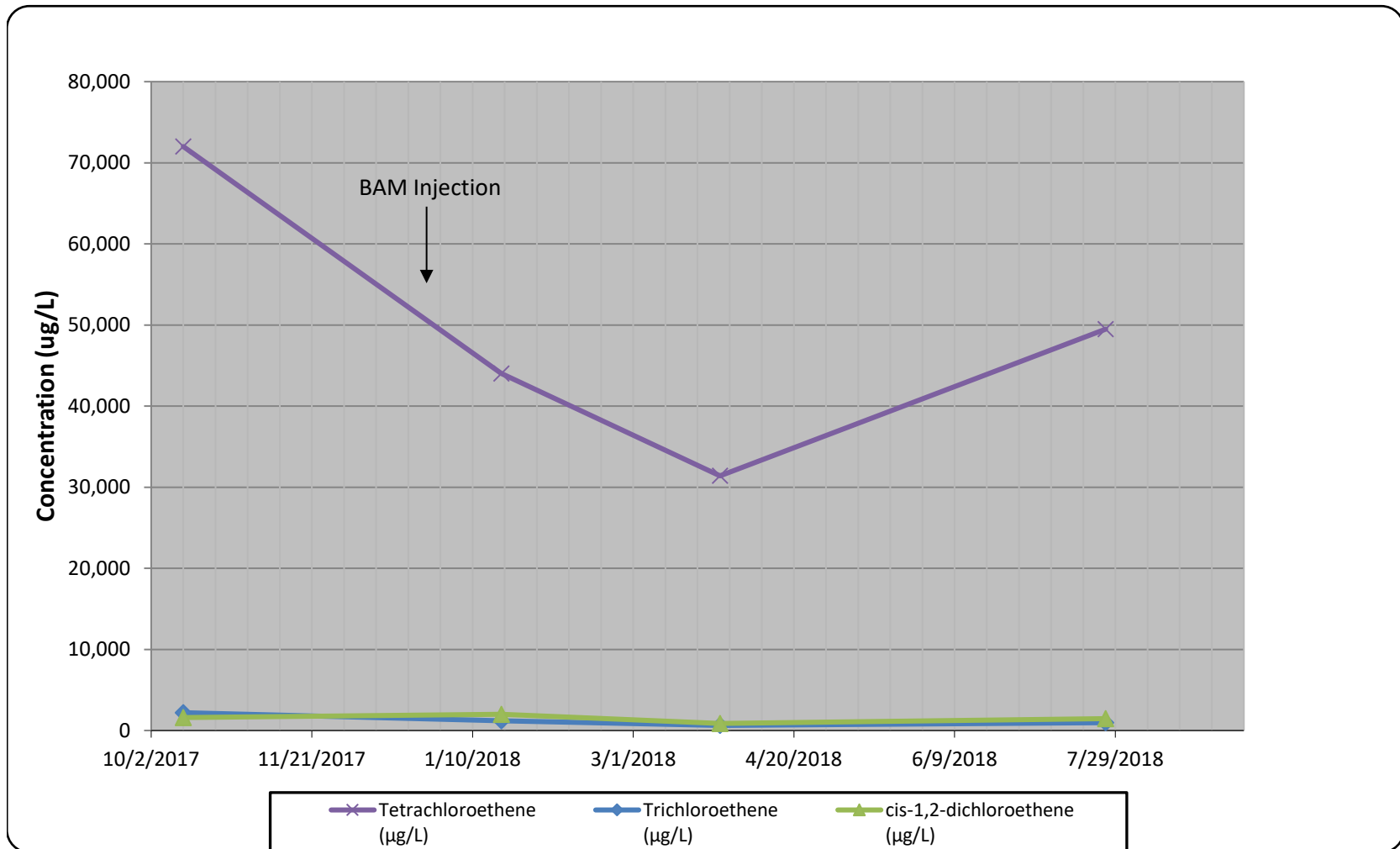
**Figure 4G: Analytical Trends at Well MW-12**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



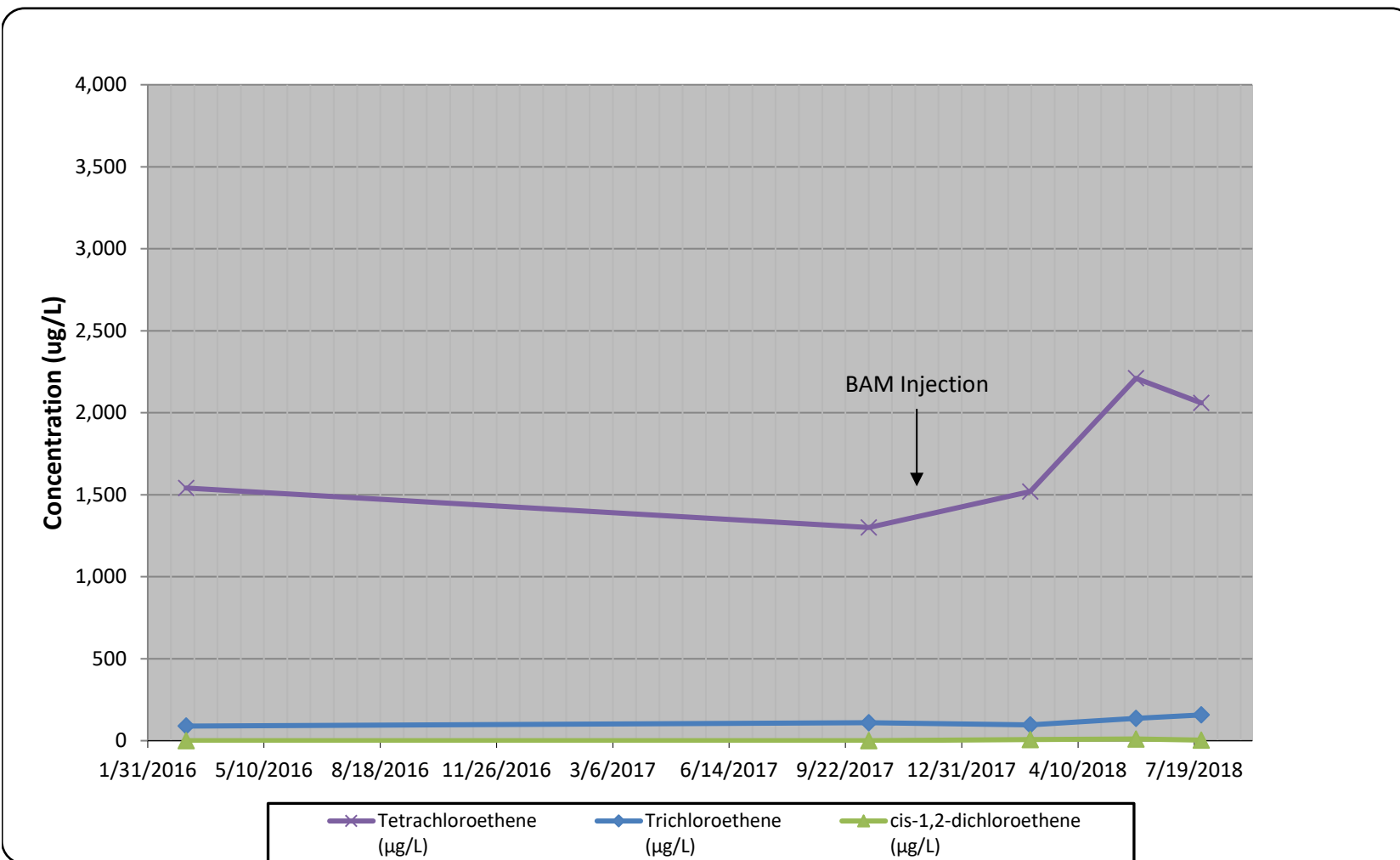
**Figure 4H: Analytical Trends at Well**

**MW-13** Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



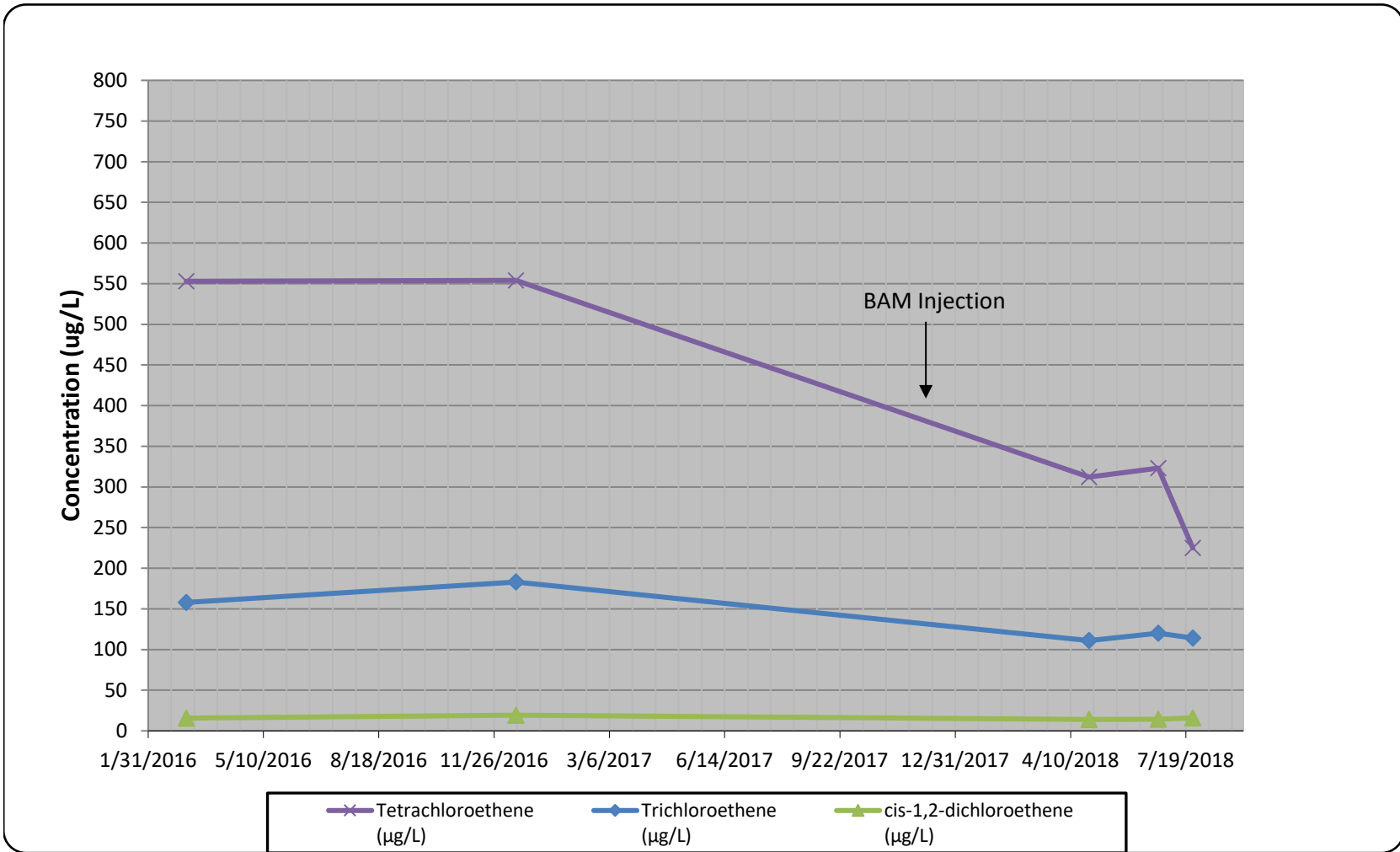
**Figure 4I: Analytical Trends at Well MW-15D**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



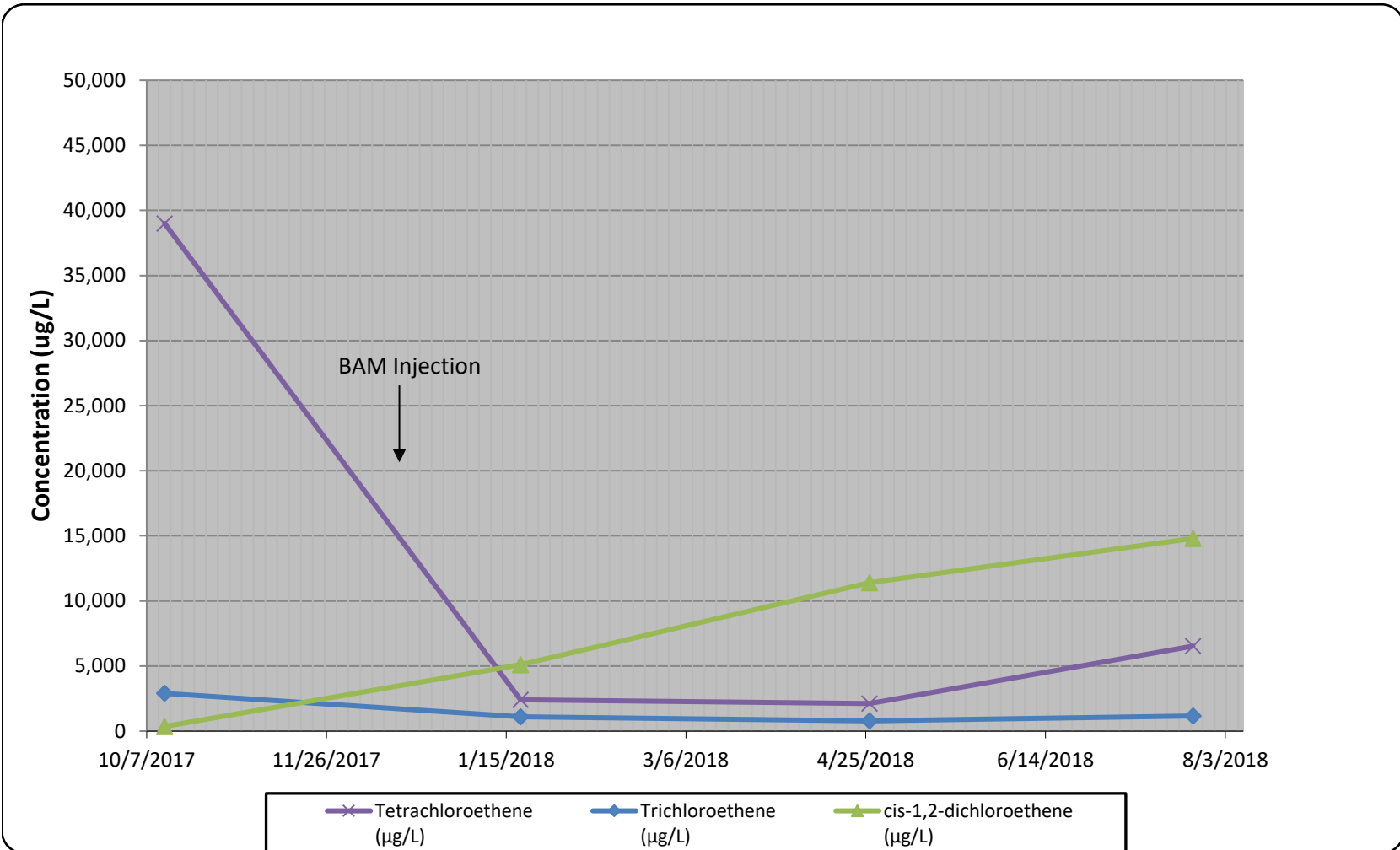
**Figure 4J: Analytical Trends at Well MW-17**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



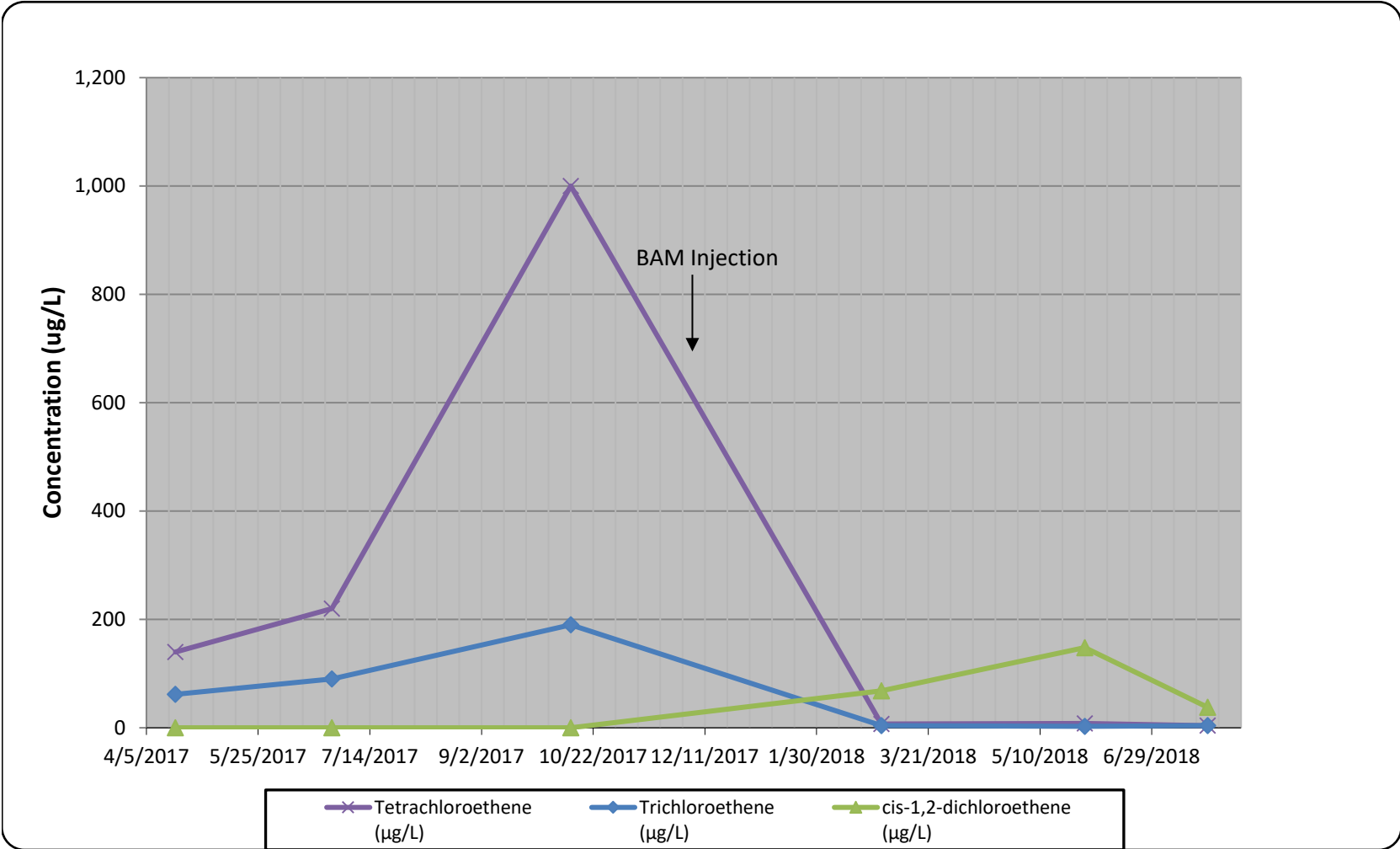
**Figure 4K: Analytical Trends at Well MW-21**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



**Figure 4L: Groundwater Quality at Well MW-21D**

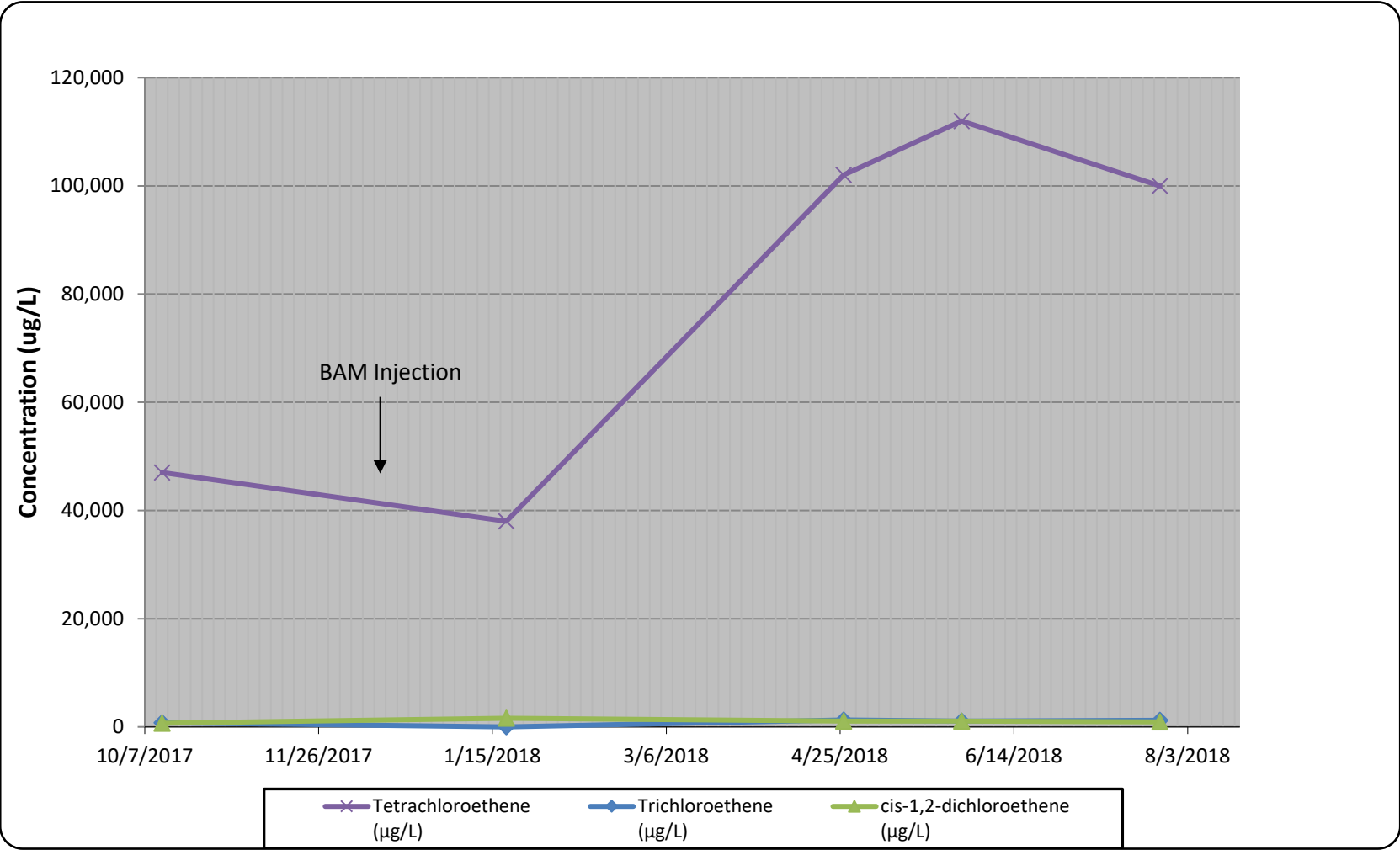
Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901





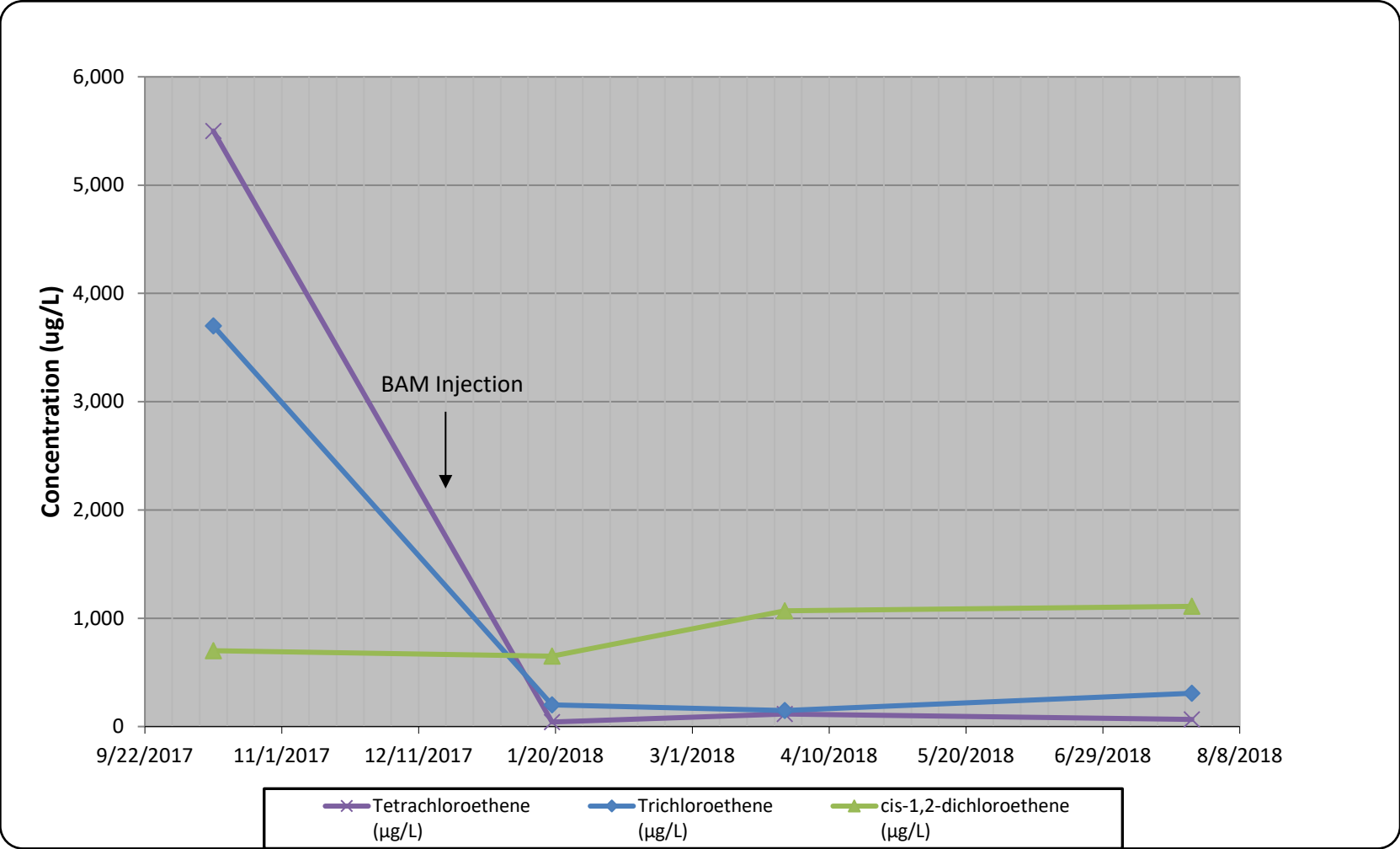
**Figure 4M: Analytical Trends at Well MW-22**

Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901



**Figure 4N: Groundwater Quality at Well MW-23**

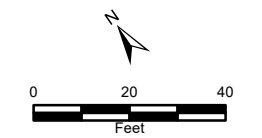
Roper Pump Company  
3475 Old Maysville Road  
Commerce, Jackson County, Georgia  
HSI Site No. 10901





◆ Monitoring Wells  
 Approximate Parcel Boundary  
**1,1,2,2-TCA Concentration ug/L**  
 0 - 2  
 2 - 5  
 5 - 10  
 10 - 15  
 15 - 20  
 20 - 25  
 25 - 30  
 > 30

**Notes**  
 1, 1, 2, 2 - TCA: 1, 1, 2, 2 - Tetrachloroethane  
 ug/L: micrograms per liter



◆ MW-1  
 (NS)

◆ MW-6D  
 (<1)  
◆ MW-6DS  
 (<1)

◆ MW-6  
 (<1)

◆ MW-9S  
 (<1)

◆ MW-9D  
 (<1)

◆ MW-12D  
 (<1)

◆ MW-12  
 (<1)

◆ MW-7  
 (<1)

◆ MW-21  
 (<1)

◆ MW-21D  
 (<1)

◆ MW-23  
 (<1)

◆ MW-4I  
 (<1)

◆ MW-15D  
 (<1)

◆ MW-22  
 (25.0)

◆ MW-13D  
 (<1)

◆ MW-13  
 (18.4)

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

**WENCK ASSOCIATES**  
 Responsive partner. Exceptional outcomes.  
 1080 HOLCOMB BRIDGE RD  
 BLDG 100, SUITE 190  
 ROSWELL, GA 30076  
 P: 678-987-5840  
 F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
 HSI NO. 10901**  
 ROPER PUMP COMPANY  
 3475 OLD MAYSVILLE RD  
 COMMERCE, JACKSON COUNTY, GA

SHEET TITLE			
1, 1, 2, 2-TCA ISOCONCENTRATION MAP (JULY 2018)			
DWN BY	CHK'D	APP'D	DWG DATE
KJM	AJH	AJH	10/30/2018
PROJECT NO.		SCALE	FIGURE NO.
6572-0001		AS SHOWN	5
REV NO.			0

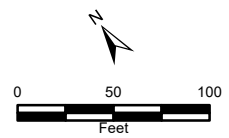
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+ Monitoring Wells  
 Approximate Parcel Boundary  
**PCE Concentration ug/L**  
 < 40  
 40 - 1,000  
 1,000 - 10,000  
 10,000 - 30,000  
 30,000 - 50,000  
 > 50,000

**Notes**  
 PCE: Tetrachloroethene  
 ug/L: micrograms per liter



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

Responsive partner. Exceptional outcomes.  
 1080 HOLCOMB BRIDGE RD  
 BLDG 100, SUITE 190  
 ROSWELL, GA 30076  
 P: 678-987-5840  
 F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
 HSI NO. 10901**  
 ROPER PUMP COMPANY  
 3475 OLD MAYSVILLE RD  
 COMMERCCE, JACKSON COUNTY, GA

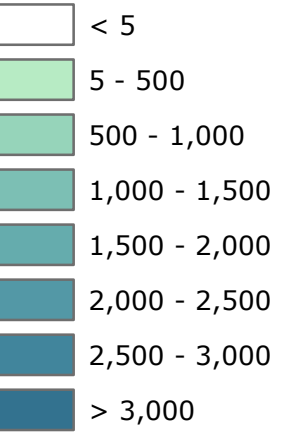
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PCE ISOCONCENTRATION MAP (JULY 2018)			
DWN BY	CHK'D	APP'D	DWG DATE
KJM	AJH	AJH	10/30/2018
PROJECT NO.		SCALE	FIGURE NO.
6572-0001		AS SHOWN	6
REV NO.			0

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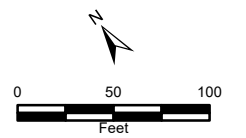


- Monitoring Wells
- Approximate Parcel

**TCE Concentration**



**Notes**  
 TCE: Trichloroethene  
 ug/L: micrograms per liter



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

Responsive partner. Exceptional outcomes.  
 1080 HOLCOMB BRIDGE RD  
 BLDG 100, SUITE 190  
 ROSWELL, GA 30076  
 P: 678-987-5840  
 F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
 HSI NO. 10901**  
 ROPER PUMP COMPANY  
 3475 OLD MAYSVILLE RD  
 COMMERCE, JACKSON COUNTY, GA

SHEET TITLE			
TCE ISOCONCENTRATION MAP (JULY 2018)			
DWN BY <b>HDK</b>	CHK'D <b>AJH</b>	APP'D <b>AJH</b>	DWG DATE <b>10/30/2018</b>
PROJECT NO. <b>6572-0001</b>		SCALE <b>AS SHOWN</b>	REV NO. <b>0</b>
FIGURE NO. <b>7</b>			

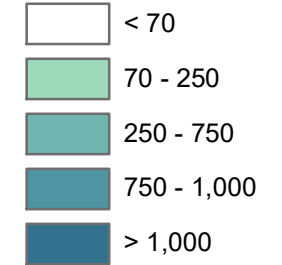
Date/Time: 10/30/2018 7:35:59 AM

Document Path: L:\6572\0001\MXD\7th Progress Report\Fig. 8A cDCE July 2018.mxd

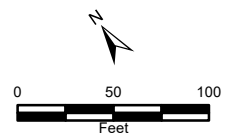


- ◆ Monitoring Wells
- Approximate Parcel


**cDCE Concentration ug/L**



**Notes**  
 cDCE: Cis -1, 2 - Dichloroethene  
 ug/L: micrograms per liter



REV	REVISION DESCRIPTION	DWN	APP	REV DATE



**WENCK ASSOCIATES**

Responsive partner. Exceptional outcomes.

1080 HOLCOMB BRIDGE RD  
 BLDG 100, SUITE 190  
 ROSWELL, GA 30076

P: 678-987-5840  
 F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
 HSI NO. 10901**

ROPER PUMP COMPANY

3475 OLD MAYSVILLE RD  
 COMMERCCE, JACKSON COUNTY, GA

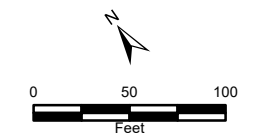
SHEET TITLE			
CDCE ISOCONCENTRATION MAP (July 2018)			
DWN BY	CHK'D	APP'D	DWG DATE
KJM	AJH	AJH	10/30/2018
PROJECT NO.		SCALE	AS SHOWN
6572-0001		8	AS SHOWN
FIGURE NO.		REV NO.	
8		0	

Date/Time: 10/30/2018 7:37:21 AM

Document Path: L:\6572\0001\MXD\7th Progress Report\Fig 9 Cross Sections.mxd



- ◆ Monitoring Wells
- Approximate Parcel Boundary
- Cross Sections



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

**WENCK**

Responsive partner. Exceptional outcomes.

1080 HOLCOMB BRIDGE RD  
BLDG 100, SUITE 190  
ROSWELL, GA 30076

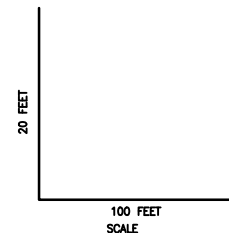
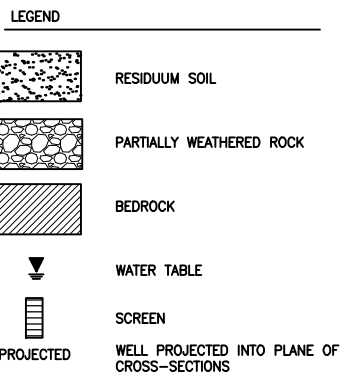
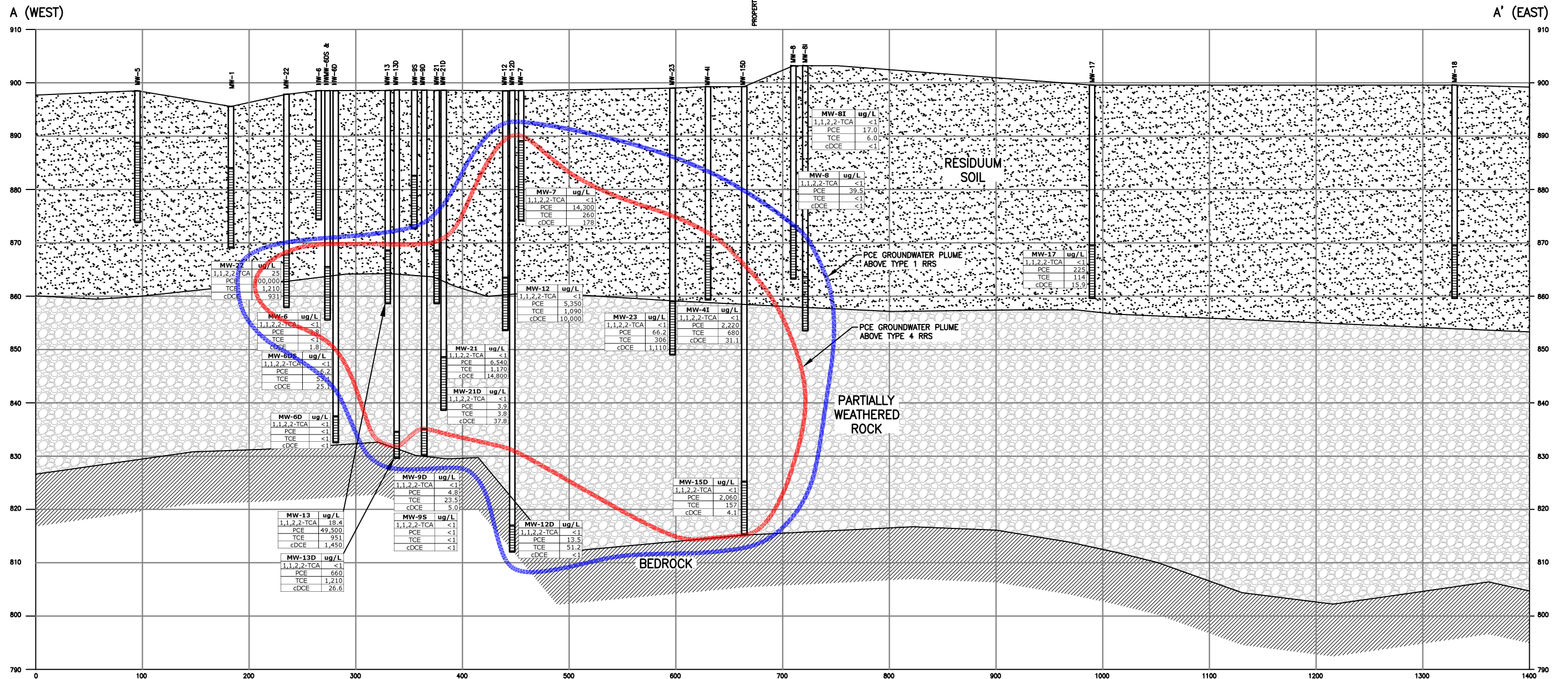
P: 678-987-5840  
F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
HSI NO. 10901**

ROPER PUMP COMPANY

3475 OLD MAYSVILLE RD  
COMMERCE, JACKSON COUNTY, GA

SHEET TITLE			
<b>CROSS SECTION LOCATION MAP</b>			
DWN BY <b>HDK</b>	CHK'D <b>AJH</b>	APP'D <b>AJH</b>	DWG DATE <b>10/30/2018</b>
PROJECT NO. <b>6572-0001</b>		SCALE <b>AS SHOWN</b>	FIGURE NO. <b>9</b>
			REV NO. <b>0</b>



**NOTES:**  
 ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)  
 ALL SAMPLES COLLECTED IN JULY 2018 EXCEPT MW-8I (10/4/18)  
 TYPE 1 RRS - 5ug/L  
 TYPE 4 RRS - 98 ug/L

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

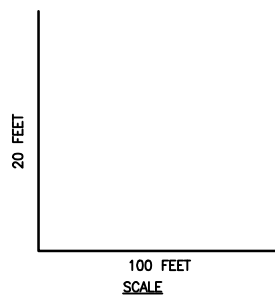
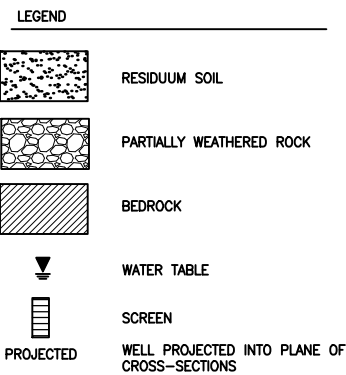
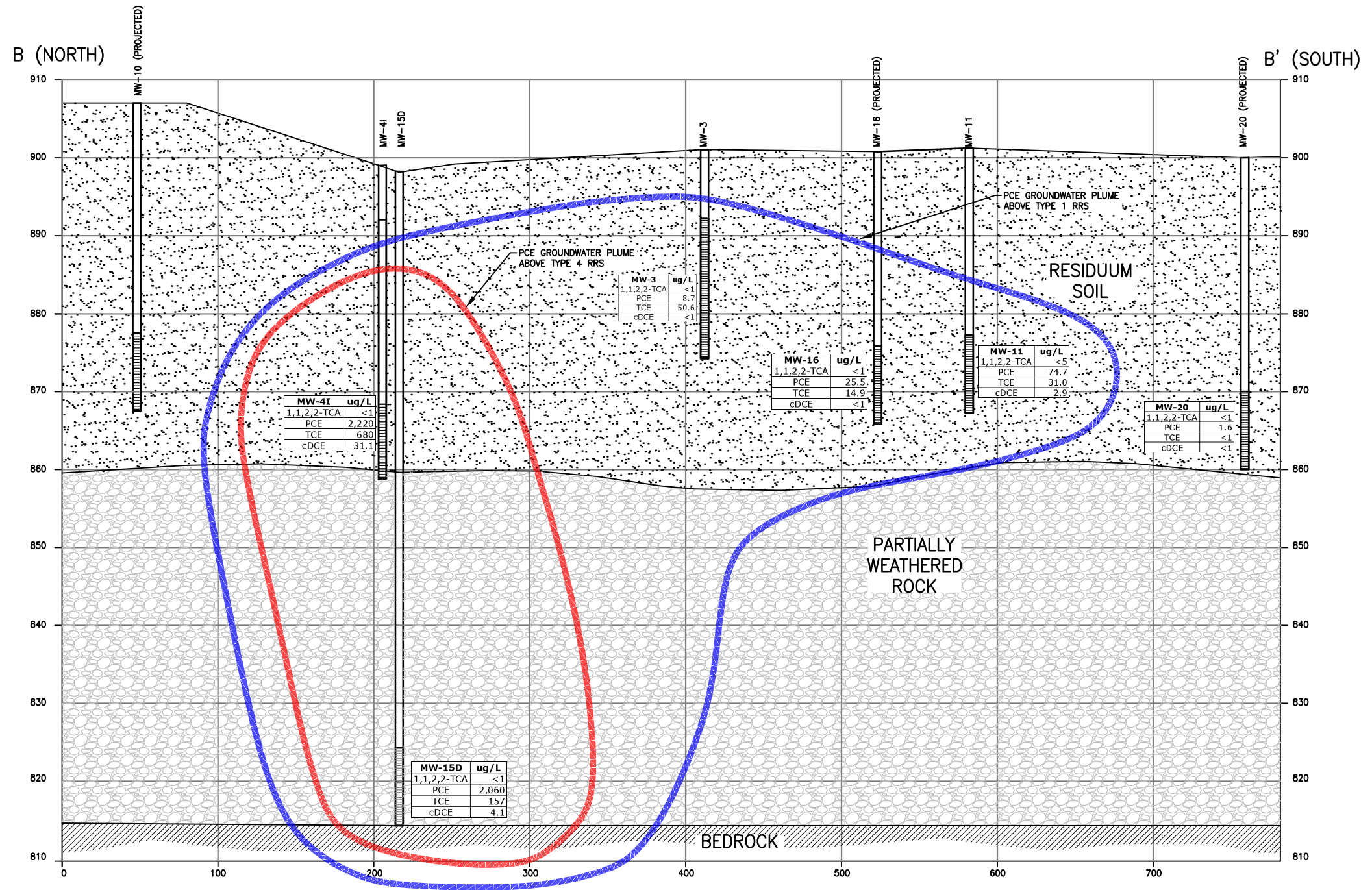
PRIME CONSULTANT

Responsive partner. Exceptional outcomes.

PROJECT TITLE  
**ROPER PUMP COMPANY**  
 3475 OLD MAYSVILLE ROAD  
 COMMERCIE, JACKSON COUNTY, GEORGIA  
 HSI NO. 10901

SHEET TITLE			
<b>CROSS SECTION A-A'</b>			
DWN BY	CHK'D	APP'D	DWG DATE
JVB	AH	AH	AUGUST 2018
PROJECT NO.	SHEET NO.	SCALE	
6572-0001	FIGURE 10	AS SHOWN	
REV NO.			





**NOTES:**  
 ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)  
 ALL SAMPLES COLLECTED IN JULY 2018  
 TYPE 1 RRS - 5ug/L  
 TYPE 4 RRS - 98 ug/L

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

PRIME CONSULTANT

**WENCK**

Responsive partner. Exceptional outcomes.

PROJECT TITLE

**ROPER PUMP COMPANY**  
 3475 OLD MAYSVILLE ROAD  
 COMMERCE, JACKSON COUNTY, GEORGIA  
 HSI NO. 10901

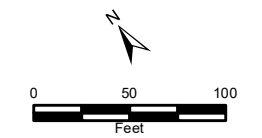
SHEET TITLE			
<b>CROSS SECTION B-B'</b>			
DWN BY	CHK'D	APP'D	DWG DATE
JVB	AH	AH	OCTOBER 2017
PROJECT NO.	SHEET NO.	SCALE	
6572-0001	FIGURE 11	AS SHOWN	
REV NO.			

Document Path: L:\6572\0001\MXD\7th Progress Report\Fig\_12\_Proposed Remediation Plan.mxd

Date/Time: 10/12/2018 9:57:52 AM



- ◆ Monitoring
- ◆ DPT Injection Point
- ◆ Deep Injection Well
- ◆ Shallow Injection Well
- Approximate Parcel



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

**WENCK ASSOCIATES**  
Responsive partner. Exceptional outcomes.

1080 HOLCOMB BRIDGE RD  
BLDG 100, SUITE 190  
ROSWELL, GA 30076

P: 678-987-5840  
F: 678-987-5877

PROJECT TITLE  
**ROPER PUMP COMPANY  
HSI NO. 10901**

**ROPER PUMP COMPANY**

3475 OLD MAYSILLE RD  
COMMERCE, JACKSON COUNTY, GA

SHEET TITLE <b>INJECTION LOCATION MAP</b>			
DWN BY <b>KJM</b>	CHK'D <b>AJH</b>	APP'D <b>AJH</b>	DWG DATE <b>10/24/2018</b>
PROJECT NO. <b>6572-0001</b>		SCALE <b>AS SHOWN</b>	FIGURE NO. <b>12</b>
REV NO. <b>0</b>			

## Appendix A

---

Environmental Database Report  
(To reduce the size of the paper copy, the Environmental Database Report is provided with the electronic copy of the report)

**Roper Pump**

3475 Old Maysville Road  
Commerce, GA 30529

Inquiry Number: 5351947.2s  
July 05, 2018

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

3475 OLD MAYSVILLE ROAD  
COMMERCE, GA 30529

#### COORDINATES

Latitude (North): 34.2147030 - 34° 12' 52.93"  
Longitude (West): 83.4826400 - 83° 28' 57.50"  
Universal Transverse Mercator: Zone 17  
UTM X (Meters): 271280.3  
UTM Y (Meters): 3788554.5  
Elevation: 899 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6045647 COMMERCE, GA  
Version Date: 2014  
  
West Map: 6045683 APPLE VALLEY, GA  
Version Date: 2014

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20151018, 20150804  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 3475 OLD MAYSVILLE ROAD  
 COMMERCE, GA 30529

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	ROPER PUMP CO	3475 OLD MAYSVILLE R	RGA LUST		TP
<a href="#">A2</a>	ROPER INDUSTRIES, IN	3475 OLD MAYSVILLE R	FINDS, ECHO		TP
<a href="#">A3</a>	ROPER PUMP CO	3475 OLD MAYSVILLE R	AIRS		TP
<a href="#">A4</a>	ROPER PUMP COMPANY	3475 OLD MAYSVILLE R	RGA HWS		TP
<a href="#">A5</a>	ROPER PUMP COMPANY	3475 MAYSVILLE ROAD	TIER 2		TP
<a href="#">A6</a>	ROPER PUMP COMPANY	3475 MAYSVILLE ROAD	FINDS, ECHO		TP
<a href="#">A7</a>	ROPER PUMP CO	3475 OLD MAYSVILLE R	LUST, UST, Financial Assurance		TP
<a href="#">A8</a>	ROPER PUMP COMPANY	3475 MAYSVILLE ROAD	VCP, NPDES, TIER 2		TP
<a href="#">A9</a>	ROPER PUMP COMPANY	3475 OLD MAYSVILLE R	SHWS		TP
<a href="#">A10</a>	ROPER PUMP COMPANY	3475 OLD MAYSVILLE R	RCRA-LQG, ICIS, US AIRS		TP
<a href="#">A11</a>	ROPER PUMP CO	3475 OLD MAYESVILLE	TRIS, FINDS, ECHO		TP
<a href="#">A12</a>	ROPER PUMP COMPANY	3475 OLD MAYSVILLE R	AIRS		TP
<a href="#">13</a>	BAKER & TAYLOR BOOKS	251 MOUNT OLIVE CHUR	RCRA-SQG, ICIS, FINDS, ECHO	Higher	588, 0.111, North
<a href="#">14</a>	JENNY HARRISON	3701 MAYSVILLE RD	LUST, UST, Financial Assurance	Lower	635, 0.120, West
<a href="#">15</a>	TROY CONSTRUCTION	260 MOUNT OLIVE CHUR	RCRA-SQG	Higher	1031, 0.195, NNW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ROPER PUMP CO 3475 OLD MAYSVILLE R COMMERCE, GA	RGA LUST Facility ID: 780042 Facility ID: 0-780042	N/A
ROPER INDUSTRIES, IN 3475 OLD MAYSVILLE R COMMERCE, GA 30529	FINDS Registry ID:: 110063615994  ECHO Registry ID: 110063615994	N/A
ROPER PUMP CO 3475 OLD MAYSVILLE R COMMERCE, GA 30529	AIRS State Facility Id: 315700011 Operational Status: O	N/A
ROPER PUMP COMPANY 3475 OLD MAYSVILLE R COMMERCE, GA	RGA HWS Facility ID: 10901	N/A
ROPER PUMP COMPANY 3475 MAYSVILLE ROAD COMMERCE, GA 30529	TIER 2 Facility Id: 4561471	N/A
ROPER PUMP COMPANY 3475 MAYSVILLE ROAD COMMERCE, GA 30529	FINDS Registry ID:: 110070018105  ECHO Registry ID: 110070018105	N/A
ROPER PUMP CO 3475 OLD MAYSVILLE R COMMERCE, GA 30529	LUST Cleanup Status: NFA - Clean Closure Facility Id: 00780042  UST Status: Removed from Ground Facility Status: Inactive Facility Id: 780042  Financial Assurance Database: Financial Assurance 1, Date of Government Version: 03/30/2018 Facility Id: 780042	N/A
ROPER PUMP COMPANY 3475 MAYSVILLE ROAD COMMERCE, GA 30529	VCP NPDES TIER 2	N/A



## EXECUTIVE SUMMARY

Facility Id: FATR2009HQL6SE3394US  
Facility Id: 5011428  
Facility Id: FATR2010JD9QTG4377KW  
Facility Id: 2932753  
Facility Id: 4090453

*\*Additional key fields are available in the Map Findings section*

ROPER PUMP COMPANY  
3475 OLD MAYSVILLE R  
COMMERCE, GA 30529

SHWS  
Facility Id: 10901

N/A

ROPER PUMP COMPANY  
3475 OLD MAYSVILLE R  
COMMERCE, GA 30529

RCRA-LQG  
EPA ID:: GAD003264850

GAD003264850

ICIS  
FRS ID:: 110000496712

US AIRS  
Database: US AIRS (AFS), Date of Government Version: 10/12/2016  
EPA plant ID:: 110000496712

ROPER PUMP CO  
3475 OLD MAYSVILLE  
COMMERCE, GA 30529

TRIS  
TRIS ID: 30529RPRPM3475O

30529RPRPM3475O

FINDS  
Registry ID:: 110000496712

ECHO  
Registry ID: 110000496712

ROPER PUMP COMPANY  
3475 OLD MAYSVILLE R  
COMMERCE, GA 30529

AIRS  
State Facility Id: 15700011  
Operational Status: O

N/A

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites

## EXECUTIVE SUMMARY

NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

SEMS..... Superfund Enterprise Management System

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

GA NON-HSI..... Non-Hazardous Site Inventory

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Disposal Facilities

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

AST..... Above Ground Storage Tanks

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

AUL..... Uniform Environmental Covenants

## EXECUTIVE SUMMARY

INST CONTROL..... Public Record List

### **State and tribal voluntary cleanup sites**

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **State and tribal Brownfields sites**

BROWNFIELDS..... Brownfields Public Record List

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

SWRCY..... Recycling Center Listing

HIST LF..... Historical Landfills

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL..... Clandestine Drug Labs

DEL SHWS..... Delisted Hazardous Site Inventory Listing

US CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Spills Information

SPILLS 90..... SPILLS 90 data from FirstSearch

#### **Other Ascertainable Records**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated

FUDS..... Formerly Used Defense Sites

DOD..... Department of Defense Sites

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION..... 2020 Corrective Action Program List

TSCA..... Toxic Substances Control Act

SSTS..... Section 7 Tracking Systems

ROD..... Records Of Decision

## EXECUTIVE SUMMARY

RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
COAL ASH.....	Coal Ash Disposal Site Listing
DRYCLEANERS.....	Drycleaner Database

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
-------------	--

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BAKER &amp; TAYLOR BOOKS</b>	<b>251 MOUNT OLIVE CHUR</b>	<b>N 0 - 1/8 (0.111 mi.)</b>	<b>13</b>	<b>140</b>
TROY CONSTRUCTION	260 MOUNT OLIVE CHUR	NNW 1/8 - 1/4 (0.195 mi.)	15	144

#### ***State and tribal leaking storage tank lists***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Confirmed Release List.

A review of the LUST list, as provided by EDR, and dated 03/30/2018 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>JENNY HARRISON</b>	<b>3701 MAYSVILLE RD</b>	<b>W 0 - 1/8 (0.120 mi.)</b>	<b>14</b>	<b>143</b>
Cleanup Status: NFA - Clean Closure Facility Id: 09078068				

#### ***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Natural Resources' Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 03/30/2018 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

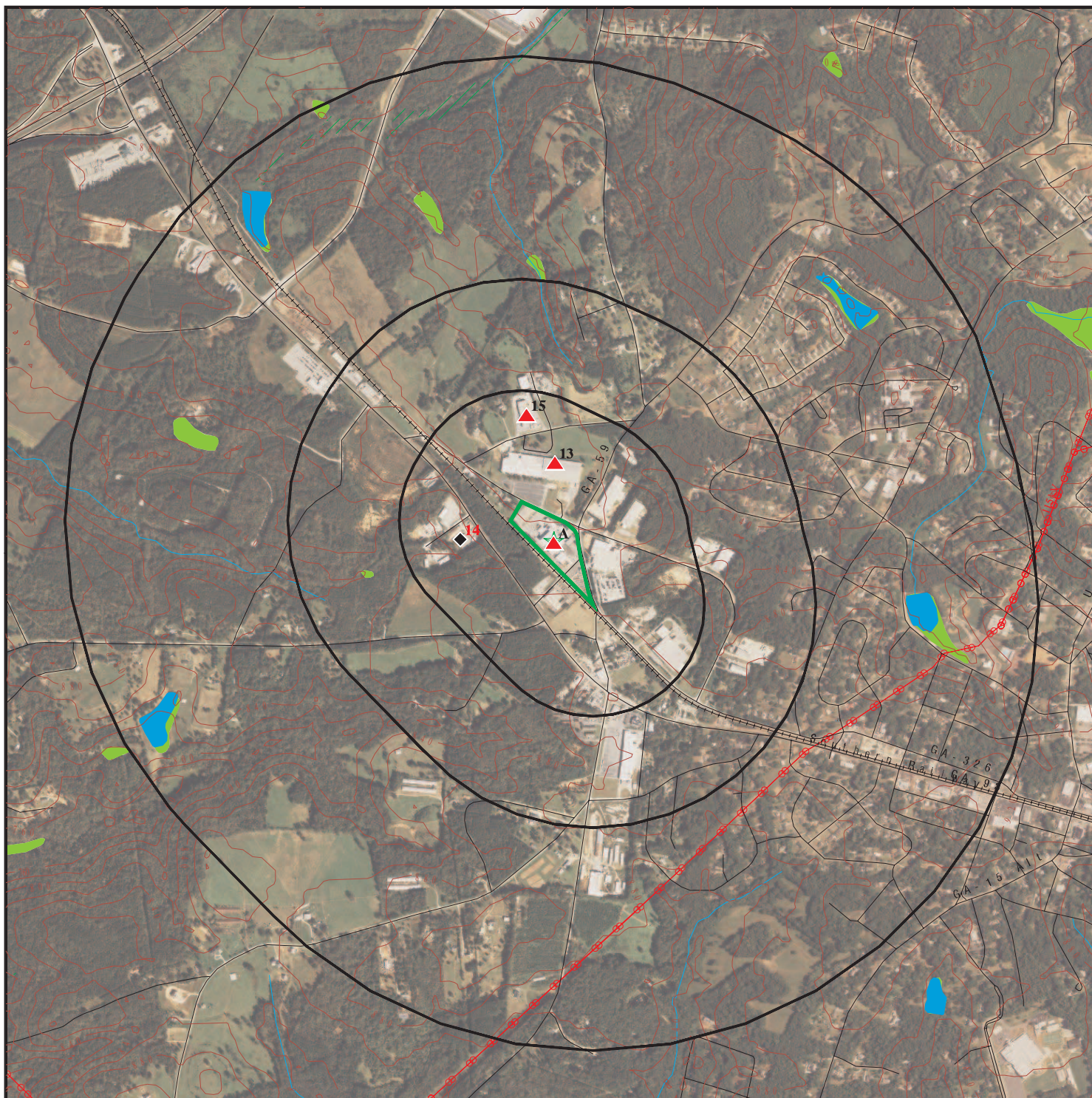
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>JENNY HARRISON</b>	<b>3701 MAYSVILLE RD</b>	<b>W 0 - 1/8 (0.120 mi.)</b>	<b>14</b>	<b>143</b>
Status: Removed from Ground Facility Status: Inactive Facility Id: 9078068				

## EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.


<u>Site Name</u>	<u>Database(s)</u>
ROPER PUMPS CO	FTTS, HIST FTTS
PHILLIP BAIRD INERT LANDFILL	SWF/LF
ROPER PUMP CO DIVISION OF ROPER IN	MANIFEST

# OVERVIEW MAP - 5351947.2S



 Target Property

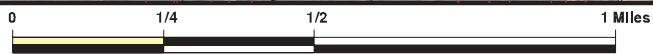
 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites



 Indian Reservations BIA

 Power transmission lines

 100-year flood zone

 500-year flood zone

 National Wetland Inventory

 State Wetlands

 Upgradient Area

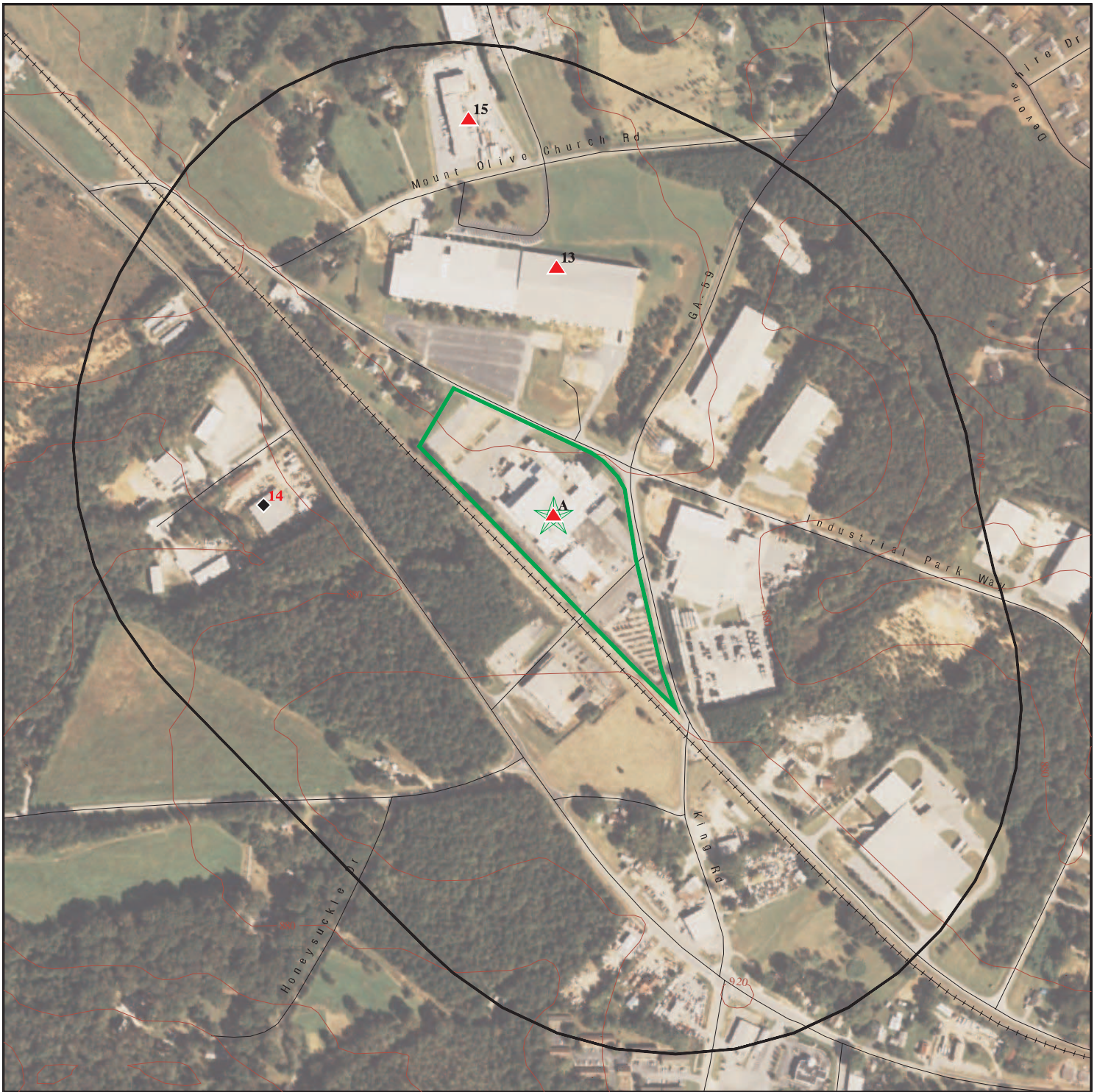









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Roper Pump  
 ADDRESS: 3475 Old Maysville Road  
 Commerce GA 30529  
 LAT/LONG: 34.214703 / 83.48264




CLIENT: Wenck  
 CONTACT: Shannon Fuller  
 INQUIRY #: 5351947.2s  
 DATE: July 05, 2018 2:05 pm

# DETAIL MAP - 5351947.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Roper Pump  
 ADDRESS: 3475 Old Maysville Road  
 Commerce GA 30529  
 LAT/LONG: 34.214703 / 83.48264

CLIENT: Wenck  
 CONTACT: Shannon Fuller  
 INQUIRY #: 5351947.2s  
 DATE: July 05, 2018 2:07 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000	1	0	0	0	0	NR	1
GA NON-HSI	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500	1	1	0	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250	1	1	0	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
AUL	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500	1	0	0	0	NR	NR	1
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001	1	0	NR	NR	NR	NR	1
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	3	0	NR	NR	NR	NR	3
ECHO	0.001	3	0	NR	NR	NR	NR	3
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001	2	0	NR	NR	NR	NR	2
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001	1	0	NR	NR	NR	NR	1
NPDES	0.001	1	0	NR	NR	NR	NR	1
TIER 2	0.001	2	0	NR	NR	NR	NR	2

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA HWS	0.001	1	0	NR	NR	NR	NR	1
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## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	1	0	NR	NR	NR	NR	1
- Totals --		22	3	1	0	0	0	26

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>A1</b>	<b>ROPER PUMP CO</b> <b>3475 OLD MAYSVILLE RD</b> <b>COMMERCE, GA</b>	<b>RGA LUST</b>	<b>S115548003</b> <b>N/A</b>
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**Site 1 of 12 in cluster A**

<b>Actual:</b> <b>899 ft.</b>	RGA LUST:	2001 ROPER PUMP CO	3475 OLD MAYSVILLE RD
		1999 ROPER PUMP CO	3475 OLD MAYSVILLE RD

<b>A2</b>	<b>ROPER INDUSTRIES, INC.</b> <b>3475 OLD MAYSVILLE ROAD</b> <b>COMMERCE, GA 30529</b>	<b>FINDS</b> <b>ECHO</b>	<b>1017425505</b> <b>N/A</b>
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**Site 2 of 12 in cluster A**

<b>Actual:</b> <b>899 ft.</b>	FINDS:	Registry ID: 110063615994
----------------------------------	--------	---------------------------

Environmental Interest/Information System  
 US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:	Envid: 1017425505
	Registry ID: 110063615994
	DFR URL: <a href="http://echo.epa.gov/detailed-facility-report?fid=110063615994">http://echo.epa.gov/detailed-facility-report?fid=110063615994</a>

<b>A3</b>	<b>ROPER PUMP CO</b> <b>3475 OLD MAYSVILLE RD</b> <b>COMMERCE, GA 30529</b>	<b>AIRS</b>	<b>1005447671</b> <b>N/A</b>
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**Site 3 of 12 in cluster A**

<b>Actual:</b> <b>899 ft.</b>	AIRS:	Record Type: Not reported
		State County FIPS: Not reported
		State Facility Id: 315700011
		Facility Registry Id: Not reported
		Facility Category: Not reported
		Oris Facility code: Not reported
		SIC Primary: Not reported
		NAICS Primary: Not reported
		Dun&Bradstreet Number: Not reported
		Tri Id number: Not reported
		NTI Site id: Not reported
		Facility County: Not reported
		Site Description: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Submittal Flag: Not reported  
Tribal Code: Not reported  
AIRS Number: 041315700011  
Operational Status: O  
SIC Code: 3561  
Contact Name: WILLIAM WARD  
Contact Company: ROPER PUMP CO  
Contact Telephone: 7063363445  
Contact Telephone 2: N/A  
Contact Fax: 7063359368  
Contact Email: wward@roperpumps.com  
Contact Address: P O BOX 269  
Contact Address 2: N/A  
Contact City,St,Zip: COMMERCE, GA 30529  
Year: Not reported  
Classification: Not reported  
Contact Type: Not reported  
Permit Number: Not reported  
Issued Date: Not reported  
Latitude: 000000  
Longitude: 000000

**Control Device Information:**

Year: Not reported  
Record Type: Not reported  
State County Fips: Not reported  
State Facility Identifier: Not reported  
Emission Unit ID: Not reported  
Process ID: Not reported  
Pollutant Code: Not reported  
Primary Pct control Efficiency: Not reported  
Pct Capture Efficiency: Not reported  
Total Capture Control Efficiency: Not reported  
Primary Device Type Code: Not reported  
Secondary Device Type Code: Not reported  
Control System Description: Not reported  
Third Control Device Type Code: Not reported  
Fourth Control Device Type Code: Not reported  
Submittal Flag: Not reported  
Tribal Code: Not reported

**Airs Emissions:**

Year: Not reported  
Record Type: Not reported  
State County Fips: Not reported  
State Facility Identifier: Not reported  
Emission Unit ID: Not reported  
Process Id: Not reported  
Pollutant Code: Not reported  
Emission Release Point ID: Not reported  
Start Date: Not reported  
End Date: Not reported  
Start Time: Not reported  
End Time: Not reported  
Emission Numeric Value: Not reported  
Emission Unit Numerator: Not reported  
Emission Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Em Reliability Indicator:	Not reported
Factor Numeric Value:	Not reported
Factor Unit Numerator:	Not reported
Factor Unit Denominator:	Not reported
Material:	Not reported
Material Io:	Not reported
Emission Calculation Method Code:	Not reported
Ef Reliability Indicator:	Not reported
Rule Effectiveness:	Not reported
Rule Effectiveness Method:	Not reported
Hap Emissions Performance Level:	Not reported
Control Status:	Not reported
Emission Data Level:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Airs EP:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Emission Release Point ID:	Not reported
Process ID:	Not reported
Scn Number:	Not reported
Process Mact Code:	Not reported
Emission Process Description:	Not reported
Winter Throughput Pct:	Not reported
Spring Throughput Pct:	Not reported
Summer Throughput Pct:	Not reported
Fall Throughput Pct:	Not reported
Annual Average Days Per Week:	Not reported
Annual Average Weeks Per Year:	Not reported
Annual Average Hours Per Day:	Not reported
Annual Average Hours Per Year:	Not reported
Heat Content:	Not reported
Sulfur Content:	Not reported
Ash Content:	Not reported
Process Mact compliance Status:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Emission Release Points:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Release Point ID:	Not reported
Emission Release Point Type:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Fenceline Distance:	Not reported
Exit Gas Temperature:	Not reported
Exit Gas Velocity:	Not reported
Exit Gas Flowrate:	Not reported
X Coordinate:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Y Coordinate:	Not reported
Utm Zone:	Not reported
X Y coordinate Type:	Not reported
Horizontal Area Fugitive:	Not reported
Release Height Fugitive:	Not reported
Fugitive Dimensions Unit:	Not reported
Emission Release Point Description:	Not reported
Submittal Flag:	Not reported
Horizontal Collection method Code:	Not reported
Horizontal Accuracy Measure:	Not reported
Horizontal Reference datum Code:	Not reported
Reference Point Code:	Not reported
Source Map scale Number:	Not reported
Coordinate Data source Code:	Not reported
Tribal Code:	Not reported
Airs EU:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Oris Boiler ID:	Not reported
Sic Unit Level:	Not reported
Naics Unit Level:	Not reported
Design Capacity:	Not reported
Design Capacity Unit Numerator:	Not reported
Design Capacity Unit Denominator:	Not reported
Max Nameplate Capacity:	Not reported
Emission Unit Description:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Process Annual Throughput:	
Year:	Not reported
Record Type:	Not reported
State County fips:	Not reported
State Facility identifier:	Not reported
Emission Unit id:	Not reported
Process ID:	Not reported
Start Date:	Not reported
End Date:	Not reported
Start Time:	Not reported
End Time:	Not reported
Actual Throughput:	Not reported
Throughput Unit numerator:	Not reported
Material:	Not reported
Material lo:	Not reported
Period Days per week:	Not reported
Period Weeks per period:	Not reported
Period Hours per day:	Not reported
Period Hours per period:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Transaction Table:

Year:	Not reported
Record Type:	Not reported
State County fips:	Not reported
Organization Name:	Not reported
Transaction Type:	Not reported
Inventory Year:	Not reported
Inventory Type code:	Not reported
Transaction Create date:	Not reported
Incremental Submission number:	Not reported
Reliability Indicator:	Not reported
Transaction Comments:	Not reported
Contact Person name:	Not reported
Contact Phone number:	Not reported
Telephone Number type name:	Not reported
Electronic Address text:	Not reported
Electronic Address type name:	Not reported
Source Type:	Not reported
Affiliation Type:	Not reported
Format Version:	Not reported
Tribal Code:	Not reported

Record Type:	Not reported
State County FIPS:	Not reported
State Facility Id:	315700011
Facility Registry Id:	Not reported
Facility Category:	Not reported
Oris Facility code:	Not reported
SIC Primary:	Not reported
NAICS Primary:	Not reported
Dun&Bradstreet Number:	Not reported
Tri Id number:	Not reported
NTI Site id:	Not reported
Facility County:	Not reported
Site Description:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
AIERS Number:	041315700011
Operational Status:	O
SIC Code:	3561
Contact Name:	WILLIAM WARD
Contact Company:	ROPER PUMP CO
Contact Telephone:	7063363445
Contact Telephone 2:	N/A
Contact Fax:	7063359368
Contact Email:	wward@roperpumps.com
Contact Address:	P O BOX 269
Contact Address 2:	N/A
Contact City,St,Zip:	COMMERCE, GA 30529
Year:	06
Classification:	Not reported
Contact Type:	Not reported
Permit Number:	Not reported
Issued Date:	Not reported
Latitude:	000000
Longitude:	000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Control Device Information:

Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process ID:	Not reported
Pollutant Code:	Not reported
Primary Pct control Efficiency:	Not reported
Pct Capture Efficiency:	Not reported
Total Capture Control Efficiency:	Not reported
Primary Device Type Code:	Not reported
Secondary Device Type Code:	Not reported
Control System Description:	Not reported
Third Control Device Type Code:	Not reported
Fourth Control Device Type Code:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported

Airs Emissions:

Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process Id:	Not reported
Pollutant Code:	Not reported
Emission Release Point ID:	Not reported
Start Date:	Not reported
End Date:	Not reported
Start Time:	Not reported
End Time:	Not reported
Emission Numeric Value:	Not reported
Emission Unit Numerator:	Not reported
Emission Type:	Not reported
Em Reliability Indicator:	Not reported
Factor Numeric Value:	Not reported
Factor Unit Numerator:	Not reported
Factor Unit Denominator:	Not reported
Material:	Not reported
Material Id:	Not reported
Emission Calculation Method Code:	Not reported
Ef Reliability Indicator:	Not reported
Rule Effectiveness:	Not reported
Rule Effectiveness Method:	Not reported
Hap Emissions Performance Level:	Not reported
Control Status:	Not reported
Emission Data Level:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported

Airs EP:

Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Emission Unit ID:	Not reported
Emission Release Point ID:	Not reported
Process ID:	Not reported
Scn Number:	Not reported
Process Mact Code:	Not reported
Emission Process Description:	Not reported
Winter Throughput Pct:	Not reported
Spring Throughput Pct:	Not reported
Summer Throughput Pct:	Not reported
Fall Throughput Pct:	Not reported
Annual Average Days Per Week:	Not reported
Annual Average Weeks Per Year:	Not reported
Annual Average Hours Per Day:	Not reported
Annual Average Hours Per Year:	Not reported
Heat Content:	Not reported
Sulfur Content:	Not reported
Ash Content:	Not reported
Process Mact compliance Status:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Emission Release Points:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Release Point ID:	Not reported
Emission Release Point Type:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Fenceline Distance:	Not reported
Exit Gas Temperature:	Not reported
Exit Gas Velocity:	Not reported
Exit Gas Flowrate:	Not reported
X Coordinate:	Not reported
Y Coordinate:	Not reported
Utm Zone:	Not reported
X Y coordinate Type:	Not reported
Horizontal Area Fugitive:	Not reported
Release Height Fugitive:	Not reported
Fugitive Dimensions Unit:	Not reported
Emission Release Point Description:	Not reported
Submittal Flag:	Not reported
Horizontal Collection method Code:	Not reported
Horizontal Accuracy Measure:	Not reported
Horizontal Reference datum Code:	Not reported
Reference Point Code:	Not reported
Source Map scale Number:	Not reported
Coordinate Data source Code:	Not reported
Tribal Code:	Not reported
Airs EU:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Emission Unit ID:	Not reported
Oris Boiler ID:	Not reported
Sic Unit Level:	Not reported
Naics Unit Level:	Not reported
Design Capacity:	Not reported
Design Capacity Unit Numerator:	Not reported
Design Capacity Unit Denominator:	Not reported
Max Nameplate Capacity:	Not reported
Emission Unit Description:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Process Annual Throughput:	
Year:	Not reported
Record Type:	Not reported
State County fips:	Not reported
State Facility identifier:	Not reported
Emission Unit id:	Not reported
Process ID:	Not reported
Start Date:	Not reported
End Date:	Not reported
Start Time:	Not reported
End Time:	Not reported
Actual Throughput:	Not reported
Throughput Unit numerator:	Not reported
Material:	Not reported
Material lo:	Not reported
Period Days per week:	Not reported
Period Weeks per period:	Not reported
Period Hours per day:	Not reported
Period Hours per period:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Transaction Table:	
Year:	Not reported
Record Type:	Not reported
State County fips:	Not reported
Organization Name:	Not reported
Transaction Type:	Not reported
Inventory Year:	Not reported
Inventory Type code:	Not reported
Transaction Create date:	Not reported
Incremental Submission number:	Not reported
Reliability Indicator:	Not reported
Transaction Comments:	Not reported
Contact Person name:	Not reported
Contact Phone number:	Not reported
Telephone Number type name:	Not reported
Electronic Address text:	Not reported
Electronic Address type name:	Not reported
Source Type:	Not reported
Affiliation Type:	Not reported
Format Version:	Not reported
Tribal Code:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Record Type:	Not reported
State County FIPS:	Not reported
State Facility Id:	315700011
Facility Registry Id:	Not reported
Facility Category:	Not reported
Oris Facility code:	Not reported
SIC Primary:	Not reported
NAICS Primary:	Not reported
Dun&Bradstreet Number:	Not reported
Tri Id number:	Not reported
NTI Site id:	Not reported
Facility County:	Not reported
Site Description:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
AIRS Number:	041315700011
Operational Status:	Not reported
SIC Code:	3561
Contact Name:	WILLIAM WARD
Contact Company:	ROPER PUMP CO
Contact Telephone:	7063363445
Contact Telephone 2:	N/A
Contact Fax:	7063359368
Contact Email:	wward@roperpumps.com
Contact Address:	P O BOX 269
Contact Address 2:	N/A
Contact City,St,Zip:	COMMERCE, GA 30529
Year:	Not reported
Classification:	Not reported
Contact Type:	Not reported
Permit Number:	Not reported
Issued Date:	Not reported
Latitude:	000000
Longitude:	000000
Control Device Information:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process ID:	Not reported
Pollutant Code:	Not reported
Primary Pct control Efficiency:	Not reported
Pct Capture Efficiency:	Not reported
Total Capture Control Efficiency:	Not reported
Primary Device Type Code:	Not reported
Secondary Device Type Code:	Not reported
Control System Description:	Not reported
Third Control Device Type Code:	Not reported
Fourth Control Device Type Code:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Airs Emissions:	
Year:	Not reported
Record Type:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process Id:	Not reported
Pollutant Code:	Not reported
Emission Release Point ID:	Not reported
Start Date:	Not reported
End Date:	Not reported
Start Time:	Not reported
End Time:	Not reported
Emission Numeric Value:	Not reported
Emission Unit Numerator:	Not reported
Emission Type:	Not reported
Em Reliability Indicator:	Not reported
Factor Numeric Value:	Not reported
Factor Unit Numerator:	Not reported
Factor Unit Denominator:	Not reported
Material:	Not reported
Material Id:	Not reported
Emission Calculation Method Code:	Not reported
Ef Reliability Indicator:	Not reported
Rule Effectiveness:	Not reported
Rule Effectiveness Method:	Not reported
Hap Emissions Performance Level:	Not reported
Control Status:	Not reported
Emission Data Level:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Airs EP:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Emission Release Point ID:	Not reported
Process ID:	Not reported
Scn Number:	Not reported
Process Mact Code:	Not reported
Emission Process Description:	Not reported
Winter Throughput Pct:	Not reported
Spring Throughput Pct:	Not reported
Summer Throughput Pct:	Not reported
Fall Throughput Pct:	Not reported
Annual Average Days Per Week:	Not reported
Annual Average Weeks Per Year:	Not reported
Annual Average Hours Per Day:	Not reported
Annual Average Hours Per Year:	Not reported
Heat Content:	Not reported
Sulfur Content:	Not reported
Ash Content:	Not reported
Process Mact compliance Status:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported

Emission Release Points:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

Year: Not reported  
Record Type: Not reported  
State County Fips: Not reported  
State Facility Identifier: Not reported  
Emission Release Point ID: Not reported  
Emission Release Point Type: Not reported  
Stack Height: Not reported  
Stack Diameter: Not reported  
Stack Fenceline Distance: Not reported  
Exit Gas Temperature: Not reported  
Exit Gas Velocity: Not reported  
Exit Gas Flowrate: Not reported  
X Coordinate: Not reported  
Y Coordinate: Not reported  
Utm Zone: Not reported  
X Y coordinate Type: Not reported  
Horizontal Area Fugitive: Not reported  
Release Height Fugitive: Not reported  
Fugitive Dimensions Unit: Not reported  
Emission Release Point Description: Not reported  
Submittal Flag: Not reported  
Horizontal Collection method Code: Not reported  
Horizontal Accuracy Measure: Not reported  
Horizontal Reference datum Code: Not reported  
Reference Point Code: Not reported  
Source Map scale Number: Not reported  
Coordinate Data source Code: Not reported  
Tribal Code: Not reported

Airs EU:  
Year: Not reported  
Record Type: Not reported  
State County Fips: Not reported  
State Facility Identifier: Not reported  
Emission Unit ID: Not reported  
Oris Boiler ID: Not reported  
Sic Unit Level: Not reported  
Naics Unit Level: Not reported  
Design Capacity: Not reported  
Design Capacity Unit Numerator: Not reported  
Design Capacity Unit Denominator: Not reported  
Max Nameplate Capacity: Not reported  
Emission Unit Description: Not reported  
Submittal Flag: Not reported  
Tribal Code: Not reported

Process Annual Throughput:  
Year: Not reported  
Record Type: Not reported  
State County fips: Not reported  
State Facility identifier: Not reported  
Emission Unit id: Not reported  
Process ID: Not reported  
Start Date: Not reported  
End Date: Not reported  
Start Time: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROPER PUMP CO (Continued)**

**1005447671**

End Time: Not reported  
 Actual Throughput: Not reported  
 Throughput Unit numerator: Not reported  
 Material: Not reported  
 Material lo: Not reported  
 Period Days per week: Not reported  
 Period Weeks per period: Not reported  
 Period Hours per day: Not reported  
 Period Hours per period: Not reported  
 Submittal Flag: Not reported  
 Tribal Code: Not reported

Transaction Table:

Year: Not reported  
 Record Type: Not reported  
 State County fips: Not reported  
 Organization Name: Not reported  
 Transaction Type: Not reported  
 Inventory Year: Not reported  
 Inventory Type code: Not reported  
 Transaction Create date: Not reported  
 Incremental Submission number: Not reported  
 Reliability Indicator: Not reported  
 Transaction Comments: Not reported  
 Contact Person name: Not reported  
 Contact Phone number: Not reported  
 Telephone Number type name: Not reported  
 Electronic Address text: Not reported  
 Electronic Address type name: Not reported  
 Source Type: Not reported  
 Affiliation Type: Not reported  
 Format Version: Not reported  
 Tribal Code: Not reported

**A4  
 Target  
 Property**

**ROPER PUMP COMPANY  
 3475 OLD MAYSVILLE ROAD  
 COMMERCE, GA**

**RGA HWS S115554370  
 N/A**

**Site 4 of 12 in cluster A**

**Actual:  
 899 ft.**

RGA HWS:  
 2012 ROPER PUMP COMPANY 3475 OLD MAYSVILLE ROAD  
 2011 ROPER PUMP COMPANY 3475 OLD MAYSVILLE ROAD  
 2010 ROPER PUMP COMPANY 3475 OLD MAYSVILLE ROAD

**A5  
 Target  
 Property**

**ROPER PUMP COMPANY  
 3475 MAYSVILLE ROAD  
 COMMERCE, GA 30529**

**TIER 2 S117053516  
 N/A**

**Site 5 of 12 in cluster A**

**Actual:  
 899 ft.**

GA TIER 2:  
 Reporting Year: 2013  
 Facility ID: 4561471  
 Facility Country: Not reported  
 Company Name: Roper Pump Company



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S117053516**

Date Submitted:	Not reported
Filing Type:	Not reported
SIC Code:	Not reported
NAICS Code:	Not reported
Dun&Bradstreet Code:	Not reported
Chemicals Same as Last Year:	Not reported
Data Tier 2 Signed:	Not reported
Dikes/Saveguard Measures:	Not reported
Facility Department:	Not reported
Facility Date Modified:	02/28/2014
State Fees Total:	Not reported
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Mailing Country:	Not reported
Latitude:	34.2147
Longitude:	-83.4822
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Number Employees on Site:	Not reported
Site Coordinate Abbrvtns Sbmtd:	Not reported
Fire District:	Not reported
Notes:	Not reported
Validity:	Not reported
Contact 1:	William Ward
Contact Type 1:	Emergency Contact
Contact Email 1:	wward@roperpumps.com
Contact 1 Telephone1:	706-248-4513
Contact 1 Telephone2:	706-336-3445
Contact 1 Phone3:	Not reported
Contact Name 2:	William Ward
Contact Type 2:	Fac. Emergency Coordinator
Contact Email 2:	wward@roperpumps.com
Contact 2 Telephone1:	706-248-4513
Contact 2 Telephone2:	706-336-3445
Contact Name 3:	Phil Smith
Contact Type 3:	Owner / Operator
Contact Email 3:	pjsmith@roperpumps.com
Contact 3 Telephone1:	706-202-7113
Contact 3 Telephone2:	706-336-3401
Contact 3 Telephone3:	Not reported
Contact Name 4:	William Ward
Contact Type 4:	Tier II Information Contact
Contact Email 4:	wward@roperpumps.com
Contact 4 Telephone1:	706-248-4513
Contact 4 Telephone2:	706-336-3445
Contact Name 5:	Not reported
Contact Type 5:	Not reported
Contact Email 5:	Not reported
Contact 5 Telephone1:	Not reported
Contact 5 Telephone2:	Not reported
Contact 5 Telephone3:	Not reported

Inventory:

Facility Id:	4561471
Year:	2013
Chemical Inventory ID:	Not reported
Acute Health Risks:	True
Average Daily Amount:	10990.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S117053516**

Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**A6** **ROPER PUMP COMPANY**  
**Target** **3475 MAYSVILLE ROAD**  
**Property** **COMMERCE, GA 30529**

**FINDS** **1022981742**  
**ECHO** **N/A**

**Site 6 of 12 in cluster A**

**Actual:**  
**899 ft.**

**FINDS:**

Registry ID: 110070018105

**Environmental Interest/Information System**

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1022981742**

ECHO:

Envid: 1022981742  
 Registry ID: 110070018105  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110070018105>

**A7  
 Target  
 Property**

**ROPER PUMP CO  
 3475 OLD MAYSVILLE RD  
 COMMERCE, GA 30529**

**LUST  
 UST  
 Financial Assurance**

**U001480935  
 N/A**

**Site 7 of 12 in cluster A**

**Actual:  
 899 ft.**

LUST:

Facility ID: 00780042  
 Leak ID: Not reported  
 Description: Not reported  
 Cleanup Status: NFA - Clean Closure  
 Date Received: Not reported  
 Project Officer: EPD Migration  
 Project Name: UST - CLOSURE - ROPER PUMP CO  
 Site Code Description: Owner/Operator funded site  
 No Further Action Date: 11/21/1991

Facility:

Facility Id: 780042  
 Facility Status: Inactive  
 Facility Type: Industrial  
 District: Not reported  
 Contact Id: Not reported  
 Owner Name: ROPER PUMP COMPANY  
 Owner Address: PO BOX 269  
 Owner City: COMMERCE  
 Owner State: GA  
 Owner Zip: 30529  
 Owner City,St,Zip: COMMERCE, GA 30529  
 Owner Telephone: 706 3355551

Tanks:

Tank ID: 1  
**Status: Removed from Ground**  
 Status Date: Not reported

Tank ID: 1  
 Product1: Gas (Historical Use)  
 Material: Concrete  
 Capacity: 1436  
 Pipe Material: Galvanized Steel  
 Pipe Type: Not reported  
 Overfill Protection: Not reported  
 Overfill Installed: Not reported  
 Tank Exempt From Spill: Not reported  
 Date Spill Device Installed: Not reported

Tank ID: 2  
**Status: Removed from Ground**  
 Status Date: Not reported

Tank ID: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP CO (Continued)**

**U001480935**

Product1: Used Oil  
Material: Concrete  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Not reported  
Overfill Protection: yes  
Overfill Installed: Not reported  
Tank Exempt From Spill: yes  
Date Spill Device Installed: Not reported

Tank ID: 3  
**Status: Removed from Ground**  
Status Date: Not reported

Tank ID: 3  
Product1: Gas (Historical Use)  
Material: Concrete  
Capacity: 1197  
Pipe Material: Galvanized Steel  
Pipe Type: Not reported  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Tank ID: 4  
**Status: Removed from Ground**  
Status Date: Not reported

Tank ID: 4  
Product1: Gas (Historical Use)  
Material: Bare Steel  
Capacity: 550  
Pipe Material: Galvanized Steel  
Pipe Type: Suction (American)  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

GA Financial Assurance 1:  
Region: 1  
Facility ID: 780042  
Financial Responsibility: Not Marked

**A8  
Target  
Property**

**ROPER PUMP COMPANY  
3475 MAYSVILLE ROAD  
COMMERCE, GA 30529**

**VCP S107774836  
NPDES N/A  
TIER 2**

**Site 8 of 12 in cluster A**

**Actual:  
899 ft.**

VCP:  
Tax Parcel Id#: 34032  
Associated with HSI #: 10901  
Date Of Application: 12/22/2014  
Applicant: Roper Pump Company

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

VRP Application #: VRP1419265395  
Date App Stat Comm: 04/13/2015  
Date App Stat2: Not reported  
Date Ist Prog Report: 10/15/2016  
Date Progress Report Comm: 10/23/2015  
Compliance Status Report Date: 04/23/2016  
Compliance Status Report Date2: 01/05/2016  
Application Status Date: 04/13/2015  
VRP Application Date: 12/22/2014  
Check List Date: Not reported

[Click here for DBF VRP:](#)

[Click here for DBF Comments:](#)

[Click here for DBF Approval:](#)

[Click here for DBF Progress Report:](#)

[Click here for DBF Progress Report:](#)

[Click here for Compliance Status Report:](#)

**NPDES:**

NPDES Id: Not reported  
Notice of Intent Num: 3532  
Facility Type Desc: Not reported  
NOI Type: Notice of Intent  
River Basin: Not reported  
Permit Sub Type: Not reported

**GA TIER 2:**

Reporting Year: 2016  
Facility ID: 5861674  
Facility Country: Not reported  
Company Name: Roper Pump Company  
Date Submitted: 03/01/2017  
Filing Type: 312  
SIC Code: 3449  
NAICS Code: 333911  
Dun&Bradstreet Code: 809028608  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: Not reported  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: 03/22/2017  
State Fees Total: Not reported  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Mailing Country: Not reported  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: Not reported  
Lat/Long Method: Not reported  
Number Employees on Site: Not reported  
Site Coordinate Abbrvtns Sbmtd: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Fire District: Not reported  
Notes: Not reported  
Validity: Not reported

Inventory:  
Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported

Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:  
Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-248-4513  
Phone3: 706-336-3445  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5861674  
Year: 2016  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Average Daily Amount Code:	Not reported
CB Record ID:	Not reported
Chemical Same as Last Year:	Not reported
Chronic Health Risk:	True
CAS Number:	Not reported
EHS Substance:	Not reported
Last Modified:	Not reported
Days on Site:	Not reported
Chemical Name:	Chromic Acid Solution
Fire Hazard:	True
Gas:	False
Liquid:	True
Max Daily Amount:	12959.0
Max Daily Amount Code:	Not reported
Max Amount in Largest Container:	Not reported
Mixture Form:	False
Sudden Release of Pressure Hazard:	False
Pure Form:	True
Reactive Hazard:	False
Solid:	False
Facility Name:	Roper Pump Company
Contact Info:	William Ward
Contact Type:	Fac. Emergency Coordinator
Email:	wward@roperpumps.com
Phone1:	706-248-4513
Phone2:	706-248-4513
Phone3:	706-336-3445
Phone4:	Not reported
Phone5:	Not reported
Hazardous 1 least hazardous/4 most hazardous:	0
Flammable 1 least flammable/4 most flammable:	0
Reactive 1 least reactive/4 very reactive:	0
Any characteristic over/above H F and R category:	-
Reporting Year:	2015
Facility ID:	5417494
Facility Country:	Not reported
Company Name:	Roper Pump Company
Date Submitted:	02/26/2016
Filing Type:	312
SIC Code:	3449
NAICS Code:	333911
Dun&Bradstreet Code:	809028608
Chemicals Same as Last Year:	Not reported
Data Tier 2 Signed:	Not reported
Dikes/Saveguard Measures:	Not reported
Facility Department:	Not reported
Facility Date Modified:	02/26/2016
State Fees Total:	Not reported
Mailing Address:	Not reported
Mailing City, St, Zip:	Not reported
Mailing Country:	Not reported
Latitude:	34.2147
Longitude:	-83.4822
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Number Employees on Site:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Site Coordinate Abbrvtns Sbmtd: Not reported  
Fire District: Not reported  
Notes: Not reported  
Validity: Not reported

Inventory:

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:  
Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:  
Facility Id: 5417494  
Year: 2015  
Chemical Inventory ID: Not reported  
Acute Health Risks: True



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: Not reported  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Fac. Emergency Coordinator  
Email: wward@roperpumps.com  
Phone1: 706-336-3445  
Phone2: 706-248-4513  
Phone3: 706-248-4513  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -  
  
Reporting Year: 2014  
Facility ID: 5011428  
Facility Country: Not reported  
Company Name: Roper Pump Company  
Date Submitted: 02/27/2015  
Filing Type: 302Tier2  
SIC Code: 3449  
NAICS Code: 333911  
Dun&Bradstreet Code: 809028608  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: Not reported  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: 02/27/2015  
State Fees Total: Not reported  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Mailing Country: Not reported  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: Not reported  
Lat/Long Method: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Number Employees on Site:	Not reported
Site Coordinate Abbrvtns Sbmtd:	Not reported
Fire District:	Not reported
Notes:	Not reported
Validity:	Not reported
Reporting Year:	2012
Facility ID:	4090453
Facility Country:	Not reported
Company Name:	Roper Pump Company
Date Submitted:	Not reported
Filing Type:	Not reported
SIC Code:	Not reported
NAICS Code:	Not reported
Dun&Bradstreet Code:	Not reported
Chemicals Same as Last Year:	Not reported
Data Tier 2 Signed:	02/26/2013
Dikes/Saveguard Measures:	Not reported
Facility Department:	Not reported
Facility Date Modified:	02/26/2013
State Fees Total:	Not reported
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Mailing Country:	Not reported
Latitude:	34.2147
Longitude:	-83.4822
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Number Employees on Site:	Not reported
Site Coordinate Abbrvtns Sbmtd:	Not reported
Fire District:	Not reported
Notes:	Not reported
Validity:	Not reported
Contact 1:	William Ward
Contact Type 1:	Emergency Contact
Contact Email 1:	wward@roperpumps.com
Contact 1 Telephone1:	706-248-4513
Contact 1 Telephone2:	706-336-3445
Contact 1 Phone3:	Not reported
Contact Name 2:	Phil Smith
Contact Type 2:	Owner / Operator
Contact Email 2:	pjsmith@roperpumps.com
Contact 2 Telephone1:	706-336-3401
Contact 2 Telephone2:	706-202-7113
Contact Name 3:	Not reported
Contact Type 3:	Not reported
Contact Email 3:	Not reported
Contact 3 Telephone1:	Not reported
Contact 3 Telephone2:	Not reported
Contact 3 Telephone3:	Not reported
Contact Name 4:	Not reported
Contact Type 4:	Not reported
Contact Email 4:	Not reported
Contact 4 Telephone1:	Not reported
Contact 4 Telephone2:	Not reported
Contact Name 5:	Not reported
Contact Type 5:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact Email 5:	Not reported
Contact 5 Telephone1:	Not reported
Contact 5 Telephone2:	Not reported
Contact 5 Telephone3:	Not reported
Inventory:	
Facility Id:	4090453
Year:	2012
Chemical Inventory ID:	Not reported
Acute Health Risks:	True
Average Daily Amount:	10990.0
Average Daily Amount Code:	Not reported
CB Record ID:	Not reported
Chemical Same as Last Year:	Not reported
Chronic Health Risk:	True
CAS Number:	0000
EHS Substance:	Not reported
Last Modified:	Not reported
Days on Site:	Not reported
Chemical Name:	Chromic Acid Solution
Fire Hazard:	True
Gas:	False
Liquid:	True
Max Daily Amount:	12959.0
Max Daily Amount Code:	Not reported
Max Amount in Largest Container:	Not reported
Mixture Form:	False
Sudden Release of Pressure Hazard:	False
Pure Form:	True
Reactive Hazard:	False
Solid:	False
Facility Name:	Roper Pump Company
Contact Info:	William Ward
Contact Type:	Emergency Contact
Email:	wward@roperpumps.com
Phone1:	706-248-4513
Phone2:	706-336-3445
Phone3:	Not reported
Phone4:	Not reported
Phone5:	Not reported
Hazardous 1 least hazardous/4 most hazardous:	0
Flammable 1 least flammable/4 most flammable:	0
Reactive 1 least reactive/4 very reactive:	0
Any characteristic over/above H F and R category:	-
Inventory:	
Facility Id:	4090453
Year:	2012
Chemical Inventory ID:	Not reported
Acute Health Risks:	True
Average Daily Amount:	10990.0
Average Daily Amount Code:	Not reported
CB Record ID:	Not reported
Chemical Same as Last Year:	Not reported
Chronic Health Risk:	True
CAS Number:	0000
EHS Substance:	Not reported
Last Modified:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:

Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

**Inventory:**

Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:  
Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -

Inventory:  
Facility Id: 4090453  
Year: 2012  
Chemical Inventory ID: Not reported  
Acute Health Risks: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Roper Pump Company  
Contact Info: William Ward  
Contact Type: Emergency Contact  
Email: wward@roperpumps.com  
Phone1: 706-248-4513  
Phone2: 706-336-3445  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: 0  
Flammable 1 least flammable/4 most flammable: 0  
Reactive 1 least reactive/4 very reactive: 0  
Any characteristic over/above H F and R category: -  
  
Reporting Year: 2011  
Facility ID: 2932753  
Facility Country: Not reported  
Company Name: Not reported  
Date Submitted: Not reported  
Filing Type: Not reported  
SIC Code: Not reported  
NAICS Code: Not reported  
Dun&Bradstreet Code: Not reported  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: 02/29/2012  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: 02/29/2012  
State Fees Total: Not reported  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Mailing Country: Not reported  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: Not reported  
Lat/Long Method: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Number Employees on Site:	Not reported
Site Coordinate Abbrvtns Sbmtd:	Not reported
Fire District:	Not reported
Notes:	Not reported
Validity:	Not reported
Contact 1:	Not reported
Contact Type 1:	Not reported
Contact Email 1:	Not reported
Contact 1 Telephone1:	Not reported
Contact 1 Telephone2:	Not reported
Contact 1 Phone3:	Not reported
Contact Name 2:	Not reported
Contact Type 2:	Not reported
Contact Email 2:	Not reported
Contact 2 Telephone1:	Not reported
Contact 2 Telephone2:	Not reported
Contact Name 3:	Not reported
Contact Type 3:	Not reported
Contact Email 3:	Not reported
Contact 3 Telephone1:	Not reported
Contact 3 Telephone2:	Not reported
Contact 3 Telephone3:	Not reported
Contact Name 4:	Not reported
Contact Type 4:	Not reported
Contact Email 4:	Not reported
Contact 4 Telephone1:	Not reported
Contact 4 Telephone2:	Not reported
Contact Name 5:	Not reported
Contact Type 5:	Not reported
Contact Email 5:	Not reported
Contact 5 Telephone1:	Not reported
Contact 5 Telephone2:	Not reported
Contact 5 Telephone3:	Not reported
Inventory:	
Facility Id:	2932753
Year:	2011
Chemical Inventory ID:	Not reported
Acute Health Risks:	True
Average Daily Amount:	10990.0
Average Daily Amount Code:	Not reported
CB Record ID:	Not reported
Chemical Same as Last Year:	Not reported
Chronic Health Risk:	True
CAS Number:	0000
EHS Substance:	Not reported
Last Modified:	Not reported
Days on Site:	Not reported
Chemical Name:	Chromic Acid Solution
Fire Hazard:	True
Gas:	False
Liquid:	True
Max Daily Amount:	12959.0
Max Daily Amount Code:	Not reported
Max Amount in Largest Container:	Not reported
Mixture Form:	False
Sudden Release of Pressure Hazard:	False
Pure Form:	True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:		Not reported
Flammable 1 least flammable/4 most flammable:		Not reported
Reactive 1 least reactive/4 very reactive:		Not reported
Any characteristic over/above H F and R category:		Not reported
Inventory:		
Facility Id:	2932753	
Year:	2011	
Chemical Inventory ID:	Not reported	
Acute Health Risks:	True	
Average Daily Amount:	10990.0	
Average Daily Amount Code:	Not reported	
CB Record ID:	Not reported	
Chemical Same as Last Year:	Not reported	
Chronic Health Risk:	True	
CAS Number:	0000	
EHS Substance:	Not reported	
Last Modified:	Not reported	
Days on Site:	Not reported	
Chemical Name:	Chromic Acid Solution	
Fire Hazard:	True	
Gas:	False	
Liquid:	True	
Max Daily Amount:	12959.0	
Max Daily Amount Code:	Not reported	
Max Amount in Largest Container:	Not reported	
Mixture Form:	False	
Sudden Release of Pressure Hazard:	False	
Pure Form:	True	
Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:		Not reported
Flammable 1 least flammable/4 most flammable:		Not reported
Reactive 1 least reactive/4 very reactive:		Not reported
Any characteristic over/above H F and R category:		Not reported
Inventory:		
Facility Id:	2932753	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: 2011  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported

**Inventory:**

Facility Id: 2932753  
Year: 2011  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Max Amount in Largest Container:	Not reported	
Mixture Form:	False	
Sudden Release of Pressure Hazard:	False	
Pure Form:	True	
Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:		Not reported
Flammable 1 least flammable/4 most flammable:		Not reported
Reactive 1 least reactive/4 very reactive:		Not reported
Any characteristic over/above H F and R category:		Not reported
Inventory:		
Facility Id:	2932753	
Year:	2011	
Chemical Inventory ID:	Not reported	
Acute Health Risks:	True	
Average Daily Amount:	10990.0	
Average Daily Amount Code:	Not reported	
CB Record ID:	Not reported	
Chemical Same as Last Year:	Not reported	
Chronic Health Risk:	True	
CAS Number:	0000	
EHS Substance:	Not reported	
Last Modified:	Not reported	
Days on Site:	Not reported	
Chemical Name:	Chromic Acid Solution	
Fire Hazard:	True	
Gas:	False	
Liquid:	True	
Max Daily Amount:	12959.0	
Max Daily Amount Code:	Not reported	
Max Amount in Largest Container:	Not reported	
Mixture Form:	False	
Sudden Release of Pressure Hazard:	False	
Pure Form:	True	
Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:		Not reported
Flammable 1 least flammable/4 most flammable:		Not reported
Reactive 1 least reactive/4 very reactive:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Any characteristic over/above H F and R category: Not reported

Inventory:

Facility Id: 2932753  
Year: 2011  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: False  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: Not reported  
Max Amount in Largest Container: Not reported  
Mixture Form: False  
Sudden Release of Pressure Hazard: False  
Pure Form: True  
Reactive Hazard: False  
Solid: False  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported

Inventory:

Facility Id: 2932753  
Year: 2011  
Chemical Inventory ID: Not reported  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: Not reported  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: Not reported  
Days on Site: Not reported  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Gas:	False	
Liquid:	True	
Max Daily Amount:	12959.0	
Max Daily Amount Code:	Not reported	
Max Amount in Largest Container:	Not reported	
Mixture Form:	False	
Sudden Release of Pressure Hazard:	False	
Pure Form:	True	
Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:	Not reported	Not reported
Flammable 1 least flammable/4 most flammable:	Not reported	Not reported
Reactive 1 least reactive/4 very reactive:	Not reported	Not reported
Any characteristic over/above H F and R category:	Not reported	Not reported

Inventory:

Facility Id:	2932753	
Year:	2011	
Chemical Inventory ID:	Not reported	
Acute Health Risks:	True	
Average Daily Amount:	10990.0	
Average Daily Amount Code:	Not reported	
CB Record ID:	Not reported	
Chemical Same as Last Year:	Not reported	
Chronic Health Risk:	True	
CAS Number:	0000	
EHS Substance:	Not reported	
Last Modified:	Not reported	
Days on Site:	Not reported	
Chemical Name:	Chromic Acid Solution	
Fire Hazard:	True	
Gas:	False	
Liquid:	True	
Max Daily Amount:	12959.0	
Max Daily Amount Code:	Not reported	
Max Amount in Largest Container:	Not reported	
Mixture Form:	False	
Sudden Release of Pressure Hazard:	False	
Pure Form:	True	
Reactive Hazard:	False	
Solid:	False	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported

Reporting Year: 2010  
Facility ID: FATR2010JD9QTG4377KW  
Facility Country: USA  
Company Name: Not reported  
Date Submitted: Not reported  
Filing Type: Not reported  
SIC Code: Not reported  
NAICS Code: Not reported  
Dun&Bradstreet Code: Not reported  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: 03/01/2011  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: 03/01/2011  
State Fees Total: Not reported  
Mailing Address: 3475 Maysville Road  
Mailing City,St,Zip: Commerce, GA 30529  
Mailing Country: USA  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: CE - Center of Facility  
Lat/Long Method: I1 - Interpolation (Map)  
Number Employees on Site: 282  
Site Coordinate Abbrvtns Sbmtd: Not reported  
Fire District: Not reported  
Notes: Not reported  
Validity: Not reported

**Inventory:**

Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04  
Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011

**Inventory:**

Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011

**Inventory:**

Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04  
Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011

**Inventory:**

Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04  
Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011  
Inventory:  
Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04  
Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011  
Inventory:  
Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Acute Health Risks:	True	
Average Daily Amount:	10990.0	
Average Daily Amount Code:	04	
CB Record ID:	Not reported	
Chemical Same as Last Year:	Not reported	
Chronic Health Risk:	True	
CAS Number:	0000	
EHS Substance:	Not reported	
Last Modified:	03/01/2011	
Days on Site:	365	
Chemical Name:	Chromic Acid Solution	
Fire Hazard:	True	
Gas:	Not reported	
Liquid:	True	
Max Daily Amount:	12959.0	
Max Daily Amount Code:	04	
Max Amount in Largest Container:	11959.0	
Mixture Form:	Not reported	
Sudden Release of Pressure Hazard:	Not reported	
Pure Form:	True	
Reactive Hazard:	Not reported	
Solid:	Not reported	
Facility Name:	Not reported	
Contact Info:	Not reported	
Contact Type:	Not reported	
Email:	Not reported	
Phone1:	Not reported	
Phone2:	Not reported	
Phone3:	Not reported	
Phone4:	Not reported	
Phone5:	Not reported	
Hazardous 1 least hazardous/4 most hazardous:		Not reported
Flammable 1 least flammable/4 most flammable:		Not reported
Reactive 1 least reactive/4 very reactive:		Not reported
Any characteristic over/above H F and R category:		Not reported
Year:	2010	
Mixture Chemical:	Chromium Oxide	
Mixture Percent:	100.0	
Mixture CAS:	1333-82-0	
Mixture EHS:	Not reported	
Mixuter Last Modified:	9/8/2011	
Year:	2010	
Substance Amount:	1000.0	
Units:	pounds	
Storage Type:	R	
Storage Pressure Code:	1	
Storage Temperature Code:	4	
Substance Location:	10 100 lb	
Substance Last Modified:	9/8/2011	
Year:	2010	
Substance Amount:	11959.0	
Units:	pounds	
Storage Type:	C	
Storage Pressure Code:	1	
Storage Temperature Code:	4	
Substance Location:	3 open top	
Substance Last Modified:	9/8/2011	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Inventory:

Facility Id:	FATR2010JD9QTG4377KW
Year:	2010
Chemical Inventory ID:	CVTR2010JD9QTG001R7
Acute Health Risks:	True
Average Daily Amount:	10990.0
Average Daily Amount Code:	04
CB Record ID:	Not reported
Chemical Same as Last Year:	Not reported
Chronic Health Risk:	True
CAS Number:	0000
EHS Substance:	Not reported
Last Modified:	03/01/2011
Days on Site:	365
Chemical Name:	Chromic Acid Solution
Fire Hazard:	True
Gas:	Not reported
Liquid:	True
Max Daily Amount:	12959.0
Max Daily Amount Code:	04
Max Amount in Largest Container:	11959.0
Mixture Form:	Not reported
Sudden Release of Pressure Hazard:	Not reported
Pure Form:	True
Reactive Hazard:	Not reported
Solid:	Not reported
Facility Name:	Not reported
Contact Info:	Not reported
Contact Type:	Not reported
Email:	Not reported
Phone1:	Not reported
Phone2:	Not reported
Phone3:	Not reported
Phone4:	Not reported
Phone5:	Not reported
Hazardous 1 least hazardous/4 most hazardous:	Not reported
Flammable 1 least flammable/4 most flammable:	Not reported
Reactive 1 least reactive/4 very reactive:	Not reported
Any characteristic over/above H F and R category:	Not reported
Year:	2010
Mixture Chemical:	Chromium Oxide
Mixture Percent:	100.0
Mixture CAS:	1333-82-0
Mixture EHS:	Not reported
Mixture Last Modified:	9/8/2011
Year:	2010
Substance Amount:	1000.0
Units:	pounds
Storage Type:	R
Storage Pressure Code:	1
Storage Temperature Code:	4
Substance Location:	10 100 lb
Substance Last Modified:	9/8/2011
Year:	2010
Substance Amount:	11959.0
Units:	pounds
Storage Type:	C

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011

Inventory:

Facility Id: FATR2010JD9QTG4377KW  
Year: 2010  
Chemical Inventory ID: CVTR2010JD9QTG001R7  
Acute Health Risks: True  
Average Daily Amount: 10990.0  
Average Daily Amount Code: 04  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 0000  
EHS Substance: Not reported  
Last Modified: 03/01/2011  
Days on Site: 365  
Chemical Name: Chromic Acid Solution  
Fire Hazard: True  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 12959.0  
Max Daily Amount Code: 04  
Max Amount in Largest Container: 11959.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: Not reported  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported

Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported

Year: 2010  
Mixture Chemical: Chromium Oxide  
Mixture Percent: 100.0  
Mixture CAS: 1333-82-0  
Mixture EHS: Not reported  
Mixture Last Modified: 9/8/2011  
Year: 2010  
Substance Amount: 1000.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 10 100 lb  
Substance Last Modified: 9/8/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: 2010  
Substance Amount: 11959.0  
Units: pounds  
Storage Type: C  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: 3 open top  
Substance Last Modified: 9/8/2011

Reporting Year: 2009  
Facility ID: FATR2009HQL6SE3394US  
Facility Country: USA  
Company Name: Not reported  
Date Submitted: Not reported  
Filing Type: Not reported  
SIC Code: Not reported  
NAICS Code: Not reported  
Dun&Bradstreet Code: Not reported  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: 02/22/2010  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: Not reported  
State Fees Total: Not reported  
Mailing Address: 3475 Maysville Road  
Mailing City,St,Zip: Commerce, GA 30529  
Mailing Country: USA  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: CE - Center of Facility  
Lat/Long Method: I1 - Interpolation (Map)  
Number Employees on Site: 266  
Site Coordinate Abbrvtns Sbmtd: Not reported  
Fire District: Not reported  
Notes: Not reported  
Validity: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

**Contact:**

Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

**Contact:**

Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:  
Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:  
Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:  
Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:  
Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:

Year: 2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:  
Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadrisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:  
Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:  
Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:  
Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported  
Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:  
Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstادنisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Facility Info:

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: SIC  
Facility ID Last Modified: Not reported  
ID: 3449

Year: 2009  
Facility ID Description: Not reported  
Facility ID Type: NAICS  
Facility ID Last Modified: Not reported  
ID: 333911

Inventory:

Facility Id: FATR2009HQL6SE3394US  
Year: 2009  
Chemical Inventory ID: CVTR2009HQL6SE006XC  
Acute Health Risks: True  
Average Daily Amount: 1991.0  
Average Daily Amount Code: 03  
CB Record ID: Not reported  
Chemical Same as Last Year: Not reported  
Chronic Health Risk: True  
CAS Number: 7664939  
EHS Substance: True  
Last Modified: 9/7/2010  
Days on Site: 365  
Chemical Name: Sulfuric Acid (lead-acid batteries)  
Fire Hazard: Not reported  
Gas: Not reported  
Liquid: True  
Max Daily Amount: 1991.0  
Max Daily Amount Code: 03  
Max Amount in Largest Container: 187.0  
Mixture Form: Not reported  
Sudden Release of Pressure Hazard: Not reported  
Pure Form: True  
Reactive Hazard: True  
Solid: Not reported  
Facility Name: Not reported  
Contact Info: Not reported  
Contact Type: Not reported  
Email: Not reported  
Phone1: Not reported  
Phone2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Phone3: Not reported  
Phone4: Not reported  
Phone5: Not reported  
Hazardous 1 least hazardous/4 most hazardous: Not reported  
Flammable 1 least flammable/4 most flammable: Not reported  
Reactive 1 least reactive/4 very reactive: Not reported  
Any characteristic over/above H F and R category: Not reported  
Year: 2009  
Substance Amount: 1991.0  
Units: pounds  
Storage Type: R  
Storage Pressure Code: 1  
Storage Temperature Code: 4  
Substance Location: Batteries  
Substance Last Modified: 9/7/2010

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9915W2  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: Not reported

Contact:

Year: 2009  
Contact ID: CTTR2009HQL6SE9914W1  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: Not reported

Reporting Year: 2008  
Facility ID: FATR20081G5335017BZ7  
Facility Country: USA  
Company Name: Not reported  
Date Submitted: Not reported  
Filing Type: Not reported  
SIC Code: Not reported  
NAICS Code: Not reported  
Dun&Bradstreet Code: Not reported  
Chemicals Same as Last Year: Not reported  
Data Tier 2 Signed: 02/24/2009  
Dikes/Saveguard Measures: Not reported  
Facility Department: Not reported  
Facility Date Modified: 05/13/2009  
State Fees Total: Not reported  
Mailing Address: 3475 Maysville Road

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Mailing City,St,Zip: Commerce, GA 30529  
Mailing Country: USA  
Latitude: 34.2147  
Longitude: -83.4822  
Lat/Long Location Desc: CE - Center of Facility  
Lat/Long Method: I1 - Interpolation (Map)  
Number Employees on Site: 206  
Site Coordinate Abbrvtns Sbmtd: Not reported  
Fire District: Not reported  
Notes: Not reported  
Validity: This facility passed all validation checks.

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:

Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstادنisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:

Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:  
Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:  
Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:  
Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:  
Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact:

Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:

Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:

Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:  
Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:  
Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:  
Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:  
Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Contact:

Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:

Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:

Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

Facility Info:

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 333911  
Facility ID Last Modified: 2/14/2002  
ID: NAICS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S107774836**

Year: Not reported  
Facility ID Description: Not reported  
Facility ID Type: 3449  
Facility ID Last Modified: 2/20/2002  
ID: SIC

Contact:  
Year: Not reported  
Contact ID: CTTR20081G537X01GFWY  
Contact Title: Vice President  
Contact First Name: Phil  
Contact Last Name: Smith  
Contact Email: wstadnisky@roperpumps.com  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Owner / Operator  
Contact Modification Date: 2/24/2009

Contact:  
Year: Not reported  
Contact ID: CTTR20081G535V01BPQX  
Contact Title: Plant Engineer  
Contact First Name: William  
Contact Last Name: Ward  
Contact Email: Not reported  
Contact Mail Address: 3475 Old Maysville Rd.  
Contact Mail City,St,Zip: Commerce, GA 30529  
Contact Mail Country: USA  
Contact Type: Emergency Contact  
Contact Modification Date: 2/24/2009

**A9  
Target  
Property**

**ROPER PUMP COMPANY  
3475 OLD MAYSVILLE ROAD  
COMMERCE, GA 30529**

**SHWS S110477170  
N/A**

**Site 9 of 12 in cluster A**

**Actual:  
899 ft.**

SHWS: 10901  
Facility Id: 10901  
Regulated Substances(RS): 1,1,2,2-Tetrachloroethane-GW/Soil; 1,1-Dichloroethene-GW; Barium-Soil; Chloroform-GW; Cis-1,2-Dichloroethene-GW/Soil; Mercury-Soil; Tetrachloroethene-GW/Soil; Trichloroethene-GW/Soil; 1,1,2-Trichloroethane-GW/Soil; Arsenic-Soil; Benzene-GW; Chromium-Soil; Lead-Soil; Methyl ethyl ketone-GW; trans-1,2-Dichloroethene-GW  
RS Released/Threats to Health Env: This site has a known release of 1,1,2-trichloroethane in groundwater at levels exceeding the reportable quantity. No human exposure via drinking water is suspected from this release. The nearest drinking water well is less than 0.5 miles from the area affected by the release. This site has a known release of 1,1,2-trichloroethane in soil at levels exceeding the reportable quantity. This site has unlimited access. The nearest resident individual is less than 300 feet from the area affected by the release.  
Status of Cleanup Activities: Cleanup activities are being conducted for source materials, soil, and groundwater.  
GA EPD Dir Determination Re Correction Action: The Director has determined that this site requires corrective action.  
Owner Name: Roper Pump Company

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S110477170**

Owner Address: P.O. Box 269  
Owner City,St,Zip: Commerce, GA 30529  
Last Known Property Owner NAME B: Not reported  
Last Known Property Owner ADDRESS B: Not reported  
Last Known Property Owner CITY B: Not reported  
Last Known Property Owner STATE B: Not reported  
Last Known Property Owner ZIP B: Not reported  
Last Known Property Owner NAME C: Not reported  
Last Known Property Owner ADDRESS C: Not reported  
Last Known Property Owner CITY C: Not reported  
Last Known Property Owner STATE C: Not reported  
Last Known Property Owner ZIP C: Not reported  
Last Known Property Owner NAME D: Not reported  
Last Known Property Owner ADDRESS D: Not reported  
Last Known Property Owner CITY D: Not reported  
Last Known Property Owner STATE D: Not reported  
Last Known Property Owner ZIP D: Not reported  
Latitude: 34 12 ' 53 " N  
Longitude: 83 28 ' 57 " W

**A10  
Target  
Property**

**ROPER PUMP COMPANY  
3475 OLD MAYSVILLE ROAD  
COMMERCE, GA 30529**

**RCRA-LQG 1000211065  
ICIS GAD003264850  
US AIRS**

**Site 10 of 12 in cluster A**

**Actual:  
899 ft.**

RCRA-LQG:  
Date form received by agency:02/17/2016  
Facility name: ROPER PUMP COMPANY  
Facility address: 3475 OLD MAYSVILLE ROAD  
COMMERCE, GA 30529  
EPA ID: GAD003264850  
Mailing address: OLD MAYSVILLE ROAD  
COMMERCE, GA 30529  
Contact: WILLIAM A WARD  
Contact address: OLD MAYSVILLE ROAD  
COMMERCE, GA 30529  
Contact country: US  
Contact telephone: 706-336-3445  
Contact email: WWARD@ROPERPUMPS.COM  
EPA Region: 04  
Land type: Private  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Owner/operator name: ROPER PUMP COMPANY  
Owner/operator address: OLD MAYSVILLE ROAD  
COMMERCE, GA 30529  
Owner/operator country: US  
Owner/operator telephone: 706-336-3300  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/31/1995  
Owner/Op end date: Not reported

Owner/operator name: ROPER PUMP COMPANY  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 10/31/1995  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D040  
. Waste name: TRICHLOROETHYLENE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:

Date form received by agency: 02/15/2016  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- Date form received by agency: 02/11/2014
- Site name: ROPER PUMP COMPANY
- Classification: Large Quantity Generator
  
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE

MAP FINDINGS

**ROPER PUMP COMPANY (Continued)**

**1000211065**

FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003  
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040  
. Waste name: TRICHLOROETHYLENE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/29/2012

Site name: ROPER PUMP COMPANY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
  
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROETHYLENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROETHYLENE, TRICHLOROETHYLENE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING,



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**ROPER PUMP COMPANY (Continued)**

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BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/16/2010

Site name: ROPER PUMP COMPANY

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D040  
. Waste name: TRICHLOROETHYLENE

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**ROPER PUMP COMPANY (Continued)**

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. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/28/2008

Site name: ROPER PUMP COMPANY

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D008

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MAP FINDINGS

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

- . Waste name: LEAD
  - . Waste code: D010
  - . Waste name: SELENIUM
  - . Waste code: D019
  - . Waste name: CARBON TETRACHLORIDE
  - . Waste code: D035
  - . Waste name: METHYL ETHYL KETONE
  - . Waste code: D040
  - . Waste name: TRICHLOROETHYLENE
  - . Waste code: F001
  - . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  - . Waste code: F003
  - . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  - . Waste code: F005
  - . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- Date form received by agency: 02/23/2006  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator
- . Waste code: D001
  - . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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MAP FINDINGS

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D010
- . Waste name: SELENIUM
  
- . Waste code: D019
- . Waste name: CARBON TETRACHLORIDE
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date form received by agency: 02/25/2004

Site name: ROPER PUMP COMPANY

Classification: Large Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007

. Waste name: CHROMIUM

. Waste code: D010

. Waste name: SELENIUM

. Waste code: D019

. Waste name: CARBON TETRACHLORIDE

. Waste code: D035

. Waste name: METHYL ETHYL KETONE

. Waste code: D040

. Waste name: TRICHLOROETHYLENE

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/05/2002

Site name: ROPER PUMP CO.

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D010  
. Waste name: SELENIUM

. Waste code: D019  
. Waste name: CARBON TETRACHLORIDE

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D040  
. Waste name: TRICHLOROETHYLENE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

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**ROPER PUMP COMPANY (Continued)**

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ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/24/2001

Site name: ROPER PUMP COMPANY

Classification: Small Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D019
- . Waste name: CARBON TETRACHLORIDE

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED

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**ROPER PUMP COMPANY (Continued)**

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FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 12/10/1998  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator

Date form received by agency: 03/13/1996  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator

Date form received by agency: 02/25/1994  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator

Date form received by agency: 02/26/1992  
Site name: ROPER PUMP CO  
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980  
Site name: ROPER PUMP COMPANY  
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE



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**ROPER PUMP COMPANY (Continued)**

**1000211065**

Amount (Lbs): MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.  
4569

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 539

Waste code: D007  
Waste name: CHROMIUM  
Amount (Lbs): 539

Waste code: D035  
Waste name: METHYL ETHYL KETONE  
Amount (Lbs): 4569

Waste code: D040  
Waste name: TRICHLOROETHYLENE  
Amount (Lbs): 14550

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.  
Amount (Lbs): 14550

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.  
Amount (Lbs): 4166

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

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**ROPER PUMP COMPANY (Continued)**

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Amount (Lbs): THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.  
4166

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 01/06/2016  
Date achieved compliance: 08/26/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/23/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: LDR - General  
Date violation determined: 01/06/2016  
Date achieved compliance: 08/26/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/28/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Container Use and Management  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/28/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 01/06/2016  
Date achieved compliance: 08/26/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/23/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State

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**ROPER PUMP COMPANY (Continued)**

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Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/28/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/23/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/23/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 01/06/2016  
Date achieved compliance: 08/26/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/28/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Container Use and Management  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/23/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 01/06/2016  
Date achieved compliance: 03/31/2016  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/28/2016  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/23/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 3000  
Paid penalty amount: 3000

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 08/28/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported

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**ROPER PUMP COMPANY (Continued)**

**1000211065**

Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 08/28/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/21/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: State Statute or Regulation  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/23/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 3000  
Paid penalty amount: 3000

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/21/2014  
Date achieved compliance: 04/25/2014  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/21/2014  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Regulation violated: Not reported  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date violation determined: 07/27/2011  
Date achieved compliance: 09/23/2011  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/08/2011  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date violation determined: 05/17/2007  
Date achieved compliance: 06/18/2007  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/25/2007  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 265.174  
Area of violation: Generators - Pre-transport  
Date violation determined: 11/15/2005  
Date achieved compliance: 01/27/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/05/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 273.15(c)(1)  
Area of violation: Generators - General  
Date violation determined: 11/15/2005  
Date achieved compliance: 01/27/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/05/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 273.14(e)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Area of violation: Generators - General  
Date violation determined: 11/15/2005  
Date achieved compliance: 01/27/2006  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/05/2006  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34(a)(2)  
Area of violation: Generators - General  
Date violation determined: 09/13/2001  
Date achieved compliance: 12/12/2001  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/09/2001  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 265.173(a)  
Area of violation: Generators - General  
Date violation determined: 09/13/2001  
Date achieved compliance: 12/12/2001  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/09/2001  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34(c)(1)(iii)  
Area of violation: Generators - General  
Date violation determined: 09/13/2001  
Date achieved compliance: 12/12/2001  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/09/2001  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.11  
Area of violation: Generators - General

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34 & 265.34  
Area of violation: Generators - Pre-transport  
Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 268.7  
Area of violation: LDR - General  
Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34 & 265.16  
Area of violation: Generators - Pre-transport  
Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34 & 265.174  
Area of violation: Generators - Pre-transport  
Date violation determined: 07/26/1991



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34 & 265.197  
Area of violation: Generators - Pre-transport  
Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34 & 265.31  
Area of violation: Generators - Pre-transport  
Date violation determined: 07/26/1991  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/19/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/04/1989  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/14/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/11/1984  
Date achieved compliance: 02/14/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 02/29/1984  
Date achieved compliance: 06/29/1984  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/13/1984  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 02/24/1984  
Date achieved compliance: 02/14/1994  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 03/01/2016  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/06/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Container Use and Management  
Date achieved compliance: 03/31/2016  
Evaluation lead agency: State

Evaluation date: 01/06/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 03/31/2016  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Evaluation date: 01/06/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 03/31/2016  
Evaluation lead agency: State

Evaluation date: 01/06/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 08/26/2016  
Evaluation lead agency: State

Evaluation date: 01/06/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: LDR - General  
Date achieved compliance: 08/26/2016  
Evaluation lead agency: State

Evaluation date: 09/23/2014  
Evaluation: NOT A SIGNIFICANT NON-COMPLIER  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/26/2014  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/01/2014  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/21/2014  
Evaluation: SIGNIFICANT NON-COMPLIER  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 04/25/2014  
Evaluation lead agency: State

Evaluation date: 02/21/2014  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: 04/25/2014  
Evaluation lead agency: State

Evaluation date: 02/21/2014  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 04/25/2014  
Evaluation lead agency: State

Evaluation date: 02/21/2014  
Evaluation: SIGNIFICANT NON-COMPLIER  
Area of violation: State Statute or Regulation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date achieved compliance: 04/25/2014  
Evaluation lead agency: State

Evaluation date: 06/11/2012  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 04/26/2012  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/27/2011  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date achieved compliance: 09/23/2011  
Evaluation lead agency: State

Evaluation date: 07/21/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/25/2010  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/11/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/18/2008  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/11/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/17/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Contingency Plan and Emergency Procedures  
Date achieved compliance: 06/18/2007  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Evaluation date: 12/13/2005  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/15/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/27/2006  
Evaluation lead agency: State

Evaluation date: 11/15/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/27/2006  
Evaluation lead agency: State

Evaluation date: 04/11/2002  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/29/2002  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/29/2002  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/13/2001  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/13/2001  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/12/2001  
Evaluation lead agency: State

Evaluation date: 02/23/2000  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/23/2000  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/23/1998  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/26/1998  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/19/1998  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/16/1998  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/25/1996  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 04/11/1996  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/06/1995  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 12/06/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/30/1992  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Evaluation date: 06/28/1992  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/21/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: LDR - General  
Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

Evaluation date: 06/21/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

Evaluation date: 06/21/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

Evaluation date: 09/13/1990  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/04/1989  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Generators - General  
Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

Evaluation date: 05/12/1986  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/11/1984  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

Evaluation date: 02/29/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/29/1984  
Evaluation lead agency: State

Evaluation date: 02/24/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Date achieved compliance: 02/14/1994  
Evaluation lead agency: State

ICIS:

Enforcement Action ID: GA000A0000131570001100036  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100036  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Notice of Violation  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: NOV  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

Enforcement Action ID: GA000A0000131570001100032  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100032  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Administrative Order  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: SCAAO  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

Enforcement Action ID: GA000A0000131570001100031  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100031  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Administrative Order  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: SCAAO  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

Enforcement Action ID: GA000A0000131570001100023  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100023  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Administrative Order  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: SCAAAO  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

Enforcement Action ID: GA000A0000131570001100019  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100019  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Notice of Violation  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: NOV  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

Enforcement Action ID: GA000A0000131570001100016  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100016  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529

Enforcement Action Type: Administrative Order  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: SCAAAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported  
  
Enforcement Action ID: GA000A0000131570001100013  
FRS ID: 110000496712  
Action Name: ROPER PUMP COMPANY 131570001100013  
Facility Name: ROPER PUMP COMPANY  
Facility Address: 3475 OLD MAYSVILLE RD  
COMMERCE, GA 30529  
  
Enforcement Action Type: Notice of Violation  
Facility County: JACKSON  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: NOV  
Facility SIC Code: 3561  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.2173  
Longitude in Decimal Degrees: -83.480703  
Permit Type Desc: Not reported  
Program System Acronym: GA0000001315700011  
Facility NAICS Code: 333911  
Tribal Land Code: Not reported

US AIRS (AFS):  
Envid: 1000211065  
Region Code: 04  
County Code: GA157  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
D and B Number: Not reported  
Facility Site Name: ROPER PUMP COMPANY  
Primary SIC Code: 3561  
NAICS Code: 333911  
Default Air Classification Code: SMI  
Facility Type of Ownership Code: Not reported  
Air CMS Category Code: SMI  
HPV Status: Not reported

US AIRS (AFS):  
Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: Not reported  
Activity Status Date: 2001-04-24 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: Not reported  
Activity Status Date: 2003-03-19 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2015-01-28 00:00:00  
Activity Status Date: 2015-04-29 00:02:56  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2015-07-20 00:00:00  
Activity Status Date: 2015-07-29 00:00:45  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2016-01-26 00:00:00  
Activity Status Date: 2016-02-03 00:41:29  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2016-01-26 00:00:00  
Activity Status Date: 2016-02-17 00:20:22  
Activity Group: Compliance Monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Active  
  
Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2016-07-22 00:00:00  
Activity Status Date: 2016-07-27 00:22:10  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2016-07-25 00:00:00  
Activity Status Date: 2016-07-27 00:22:11  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2016-07-29 00:00:00  
Activity Status Date: 2016-08-17 00:30:51  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2002-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2003-02-06 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2003-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2004-03-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2004-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2005-03-01 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2005-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-01-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-01-27 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-04-16 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-04-20 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-05-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2006-07-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-01-17 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-01-22 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-03-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported  
  
Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-06-08 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-06-11 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-06-15 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-07-11 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2007-07-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2007-08-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2008-01-15 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2010-01-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2010-07-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2010-08-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2011-01-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2011-04-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2011-05-12 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2011-07-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2012-01-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2012-07-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2013-01-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2013-07-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2014-01-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2014-07-18 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2014-07-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2014-07-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2000-02-17 00:00:00  
Activity Status Date: 2000-02-17 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2001-04-11 00:00:00  
Activity Status Date: 2001-04-11 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: MACT Standards (40 CFR Part 63)  
Activity Date: 2003-02-17 00:00:00  
Activity Status Date: 2003-02-17 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: Not reported  
Activity Status Date: 2001-01-17 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: Not reported  
Activity Status Date: 2001-04-24 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: Not reported  
Activity Status Date: 2003-03-19 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2015-01-28 00:00:00  
Activity Status Date: 2015-04-29 00:02:56  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2015-07-20 00:00:00  
Activity Status Date: 2015-07-29 00:00:45  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2016-01-26 00:00:00  
Activity Status Date: 2016-02-03 00:41:29  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2016-01-26 00:00:00  
Activity Status Date: 2016-02-17 00:20:22  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2016-07-22 00:00:00  
Activity Status Date: 2016-07-27 00:22:10  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2016-07-25 00:00:00  
Activity Status Date: 2016-07-27 00:22:11  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2016-07-29 00:00:00  
Activity Status Date: 2016-08-17 00:30:51  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Active

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1997-07-22 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1999-08-05 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2000-04-12 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2001-05-17 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2002-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2003-02-06 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2003-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2004-03-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2004-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2005-03-01 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2005-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-01-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-01-27 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-04-16 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-04-20 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-05-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-07-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-01-17 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-01-22 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-03-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-06-08 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-06-11 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
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**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-06-15 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-07-11 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-07-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2007-08-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2008-01-15 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2010-01-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2010-07-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2010-08-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2011-01-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2011-04-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2011-05-12 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2011-07-25 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2012-01-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2012-07-26 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2013-01-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2013-07-29 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2014-01-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2014-07-18 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2014-07-21 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring

Map ID  
Direction  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2014-07-31 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2000-02-17 00:00:00  
Activity Status Date: 2000-02-17 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2000-09-06 00:00:00  
Activity Status Date: 2000-09-06 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2000-09-18 00:00:00  
Activity Status Date: 2000-09-18 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards



Map ID  
Direction  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Activity Date: 2001-04-11 00:00:00  
Activity Status Date: 2001-04-11 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Formal  
Activity Status: Final Order Issued

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1999-09-07 00:00:00  
Activity Status Date: 1999-09-07 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2000-05-09 00:00:00  
Activity Status Date: 2000-05-09 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2003-02-17 00:00:00  
Activity Status Date: 2003-02-17 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: Not reported  
Activity Status Date: 2003-03-19 00:00:00  
Activity Group: Case File  
Activity Type: Case File  
Activity Status: Resolved

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2002-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2003-02-06 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2003-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2004-03-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2004-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**1000211065**

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2005-03-01 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2005-09-30 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2010-08-10 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 04  
Programmatic ID: AIR GA0000001315700011  
Facility Registry ID: 110000496712  
Air Operating Status Code: OPR  
Default Air Classification Code: SMI  
Air Program: Title V Permits  
Activity Date: 2003-02-17 00:00:00  
Activity Status Date: 2003-02-17 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A11**      **ROPER PUMP CO**  
**Target**    **3475 OLD MAYESVILLE RD**  
**Property**   **COMMERCE, GA 30529**

**TRIS**    **1016176137**  
**FINDS**   **30529RPRPM34750**  
**ECHO**

**Site 11 of 12 in cluster A**

**Actual:**      **TRIS:**  
**899 ft.**

[Click this hyperlink](#) while viewing on your computer to access 2 additional US\_TRIS: record(s) in the EDR Site Report.

**FINDS:**

Registry ID:                      110000496712

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

**AIR EMISSIONS CLASSIFICATION UNKNOWN**

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**RISK AND TECHNOLOGY REVIEW**

**AIR MAJOR**

**HAZARDOUS WASTE BIENNIAL REPORTER**

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ROPER PUMP CO (Continued)**

**1016176137**

Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016176137  
 Registry ID: 110000496712  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000496712>

**A12  
 Target  
 Property**

**ROPER PUMP COMPANY  
 3475 OLD MAYSVILLE RD  
 COMMERCE, GA 30529**

**AIRS S121800532  
 N/A**

**Site 12 of 12 in cluster A**

**Actual:  
 899 ft.**

AIRS:

Record Type:	Not reported
State County FIPS:	Not reported
State Facility Id:	15700011
Facility Registry Id:	Not reported
Facility Category:	Not reported
Oris Facility code:	Not reported
SIC Primary:	3561
NAICS Primary:	333911
Dun&Bradstreet Number:	Not reported
Tri Id number:	Not reported
NTI Site id:	Not reported
Facility County:	Not reported
Site Description:	Rotary Pump Manufacturing Plant
Submittal Flag:	Not reported
Tribal Code:	Not reported
AIRS Number:	15700011
Operational Status:	O
SIC Code:	Not reported
Contact Name:	WILLIAM WARD
Contact Company:	Not reported
Contact Telephone:	7063363445
Contact Fax:	Not reported
Contact Email:	wward@roperpumps.com
Contact Address:	P O BOX 269
Contact Address 2:	Not reported
Contact City,St,Zip:	COMMERCE, GA 30529
Year:	2016
Classification:	SM
Contact Type:	Fee Contact
Permit Number:	3561-157-0011-S-03-3
Issued Date:	6/18/2013 0:00
Latitude:	34.2173

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S121800532**

Longitude:	-83.480703
Control Device Information:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process ID:	Not reported
Pollutant Code:	Not reported
Primary Pct control Efficiency:	Not reported
Pct Capture Efficiency:	Not reported
Total Capture Control Efficiency:	Not reported
Primary Device Type Code:	Not reported
Secondary Device Type Code:	Not reported
Control System Description:	Not reported
Third Control Device Type Code:	Not reported
Fourth Control Device Type Code:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Airs Emissions:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Process Id:	Not reported
Pollutant Code:	Not reported
Emission Release Point ID:	Not reported
Start Date:	Not reported
End Date:	Not reported
Start Time:	Not reported
End Time:	Not reported
Emission Numeric Value:	Not reported
Emission Unit Numerator:	Not reported
Emission Type:	Not reported
Em Reliability Indicator:	Not reported
Factor Numeric Value:	Not reported
Factor Unit Numerator:	Not reported
Factor Unit Denominator:	Not reported
Material:	Not reported
Material Id:	Not reported
Emission Calculation Method Code:	Not reported
Ef Reliability Indicator:	Not reported
Rule Effectiveness:	Not reported
Rule Effectiveness Method:	Not reported
Hap Emissions Performance Level:	Not reported
Control Status:	Not reported
Emission Data Level:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Airs EP:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S121800532**

State Facility Identifier:	Not reported
Emission Unit ID:	Not reported
Emission Release Point ID:	Not reported
Process ID:	Not reported
Scn Number:	Not reported
Process Mact Code:	Not reported
Emission Process Description:	Not reported
Winter Throughput Pct:	Not reported
Spring Throughput Pct:	Not reported
Summer Throughput Pct:	Not reported
Fall Throughput Pct:	Not reported
Annual Average Days Per Week:	Not reported
Annual Average Weeks Per Year:	Not reported
Annual Average Hours Per Day:	Not reported
Annual Average Hours Per Year:	Not reported
Heat Content:	Not reported
Sulfur Content:	Not reported
Ash Content:	Not reported
Process Mact compliance Status:	Not reported
Submittal Flag:	Not reported
Tribal Code:	Not reported
Emission Release Points:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported
State Facility Identifier:	Not reported
Emission Release Point ID:	Not reported
Emission Release Point Type:	Not reported
Stack Height:	Not reported
Stack Diameter:	Not reported
Stack Fenceline Distance:	Not reported
Exit Gas Temperature:	Not reported
Exit Gas Velocity:	Not reported
Exit Gas Flowrate:	Not reported
X Coordinate:	Not reported
Y Coordinate:	Not reported
Utm Zone:	Not reported
X Y coordinate Type:	Not reported
Horizontal Area Fugitive:	Not reported
Release Height Fugitive:	Not reported
Fugitive Dimensions Unit:	Not reported
Emission Release Point Description:	Not reported
Submittal Flag:	Not reported
Horizontal Collection method Code:	Not reported
Horizontal Accuracy Measure:	Not reported
Horizontal Reference datum Code:	Not reported
Reference Point Code:	Not reported
Source Map scale Number:	Not reported
Coordinate Data source Code:	Not reported
Tribal Code:	Not reported
Airs EU:	
Year:	Not reported
Record Type:	Not reported
State County Fips:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROPER PUMP COMPANY (Continued)**

**S121800532**

State Facility Identifier: Not reported  
Emission Unit ID: Not reported  
Oris Boiler ID: Not reported  
Sic Unit Level: Not reported  
Naics Unit Level: Not reported  
Design Capacity: Not reported  
Design Capacity Unit Numerator: Not reported  
Design Capacity Unit Denominator: Not reported  
Max Nameplate Capacity: Not reported  
Emission Unit Description: Not reported  
Submittal Flag: Not reported  
Tribal Code: Not reported

**Process Annual Throughput:**

Year: Not reported  
Record Type: Not reported  
State County fips: Not reported  
State Facility identifier: Not reported  
Emission Unit id: Not reported  
Process ID: Not reported  
Start Date: Not reported  
End Date: Not reported  
Start Time: Not reported  
End Time: Not reported  
Actual Throughput: Not reported  
Throughput Unit numerator: Not reported  
Material: Not reported  
Material lo: Not reported  
Period Days per week: Not reported  
Period Weeks per period: Not reported  
Period Hours per day: Not reported  
Period Hours per period: Not reported  
Submittal Flag: Not reported  
Tribal Code: Not reported

**Transaction Table:**

Year: Not reported  
Record Type: Not reported  
State County fips: Not reported  
Organization Name: Not reported  
Transaction Type: Not reported  
Inventory Year: Not reported  
Inventory Type code: Not reported  
Transaction Create date: Not reported  
Incremental Submission number: Not reported  
Reliability Indicator: Not reported  
Transaction Comments: Not reported  
Contact Person name: Not reported  
Contact Phone number: Not reported  
Telephone Number type name: Not reported  
Electronic Address text: Not reported  
Electronic Address type name: Not reported  
Source Type: Not reported  
Affiliation Type: Not reported  
Format Version: Not reported  
Tribal Code: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

13  
North  
< 1/8  
0.111 mi.  
588 ft.

**BAKER & TAYLOR BOOKS**  
**251 MOUNT OLIVE CHURCH RD**  
**COMMERCE, GA 30599**

**RCRA-SQG** 1001024192  
**ICIS** GAR000003970  
**FINDS**  
**ECHO**

**Relative:**  
**Higher**

RCRA-SQG:

**Actual:**  
**919 ft.**

Date form received by agency: 03/01/2005  
Facility name: BAKER & TAYLOR BOOKS  
Facility address: 251 MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30599  
EPA ID: GAR000003970  
Mailing address: PO BOX 458  
COMMERCE, GA 30599  
Contact: TIM NUNN  
Contact address: MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30599  
Contact country: US  
Contact telephone: 706-335-5000  
Telephone ext.: 2259  
Contact email: Not reported  
EPA Region: 04  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: W R GRACE & CO  
Owner/operator address: ONE TOWN CENTER RD  
ROCA RATON, FL 33486  
Owner/operator country: Not reported  
Owner/operator telephone: 704-362-2000  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAKER & TAYLOR BOOKS (Continued)**

**1001024192**

Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

Historical Generators:

Date form received by agency: 08/18/1995  
Site name: BAKER & TAYLOR BOOKS  
Classification: Small Quantity Generator

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

Facility Has Received Notices of Violations:

Regulation violated: SR - 262.34(d)(5)(ii)  
Area of violation: Generators - General  
Date violation determined: 11/06/1997  
Date achieved compliance: 12/19/1997  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/06/1997  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/09/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/17/2002  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/10/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/19/1997  
Evaluation lead agency: State

ICIS:

Enforcement Action ID: 04-2003-9940  
FRS ID: 110005709359  
Action Name: Baker & Taylor  
Facility Name: BAKER & TAYLOR BOOKS  
Facility Address: 251 MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30599  
Enforcement Action Type: EPCRA 325 Action For Penalty

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAKER & TAYLOR BOOKS (Continued)**

**1001024192**

Facility County: JACKSON  
Program System Acronym: ICIS  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 325  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 34.217267  
Longitude in Decimal Degrees: -83.482565  
Permit Type Desc: Not reported  
Program System Acronym: 5415284  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Facility Name: BAKER & TAYLOR BOOKS  
Address: 251 MOUNT OLIVE CHURCH RD  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: BAKER & TAYLOR BOOKS  
Address: 251 MOUNT OLIVE CHURCH RD  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

**FINDS:**

Registry ID: 110005709359

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAKER & TAYLOR BOOKS (Continued)**

**1001024192**

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1001024192  
Registry ID: 110005709359  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110005709359>

**14**  
**West**  
**< 1/8**  
**0.120 mi.**  
**635 ft.**

**JENNY HARRISON**  
**3701 MAYSVILLE RD**  
**COMMERCE, GA 30529**

**LUST** **U003158294**  
**UST** **N/A**  
**Financial Assurance**

**Relative:**  
**Lower**  
**Actual:**  
**872 ft.**

LUST:  
Facility ID: 09078068  
Leak ID: Not reported  
Description: Not reported  
Cleanup Status: NFA - Clean Closure  
Date Received: Not reported  
Project Officer: William Logan  
Project Name: UST - CLOSURE - JENNY HARRISON  
Site Code Description: Owner/Operator funded site  
No Further Action Date: 10/06/1997

Facility:

Facility Id: 9078068  
Facility Status: Inactive  
Facility Type: Not Marked  
District: Not reported  
Contact Id: Not reported  
Owner Name: JIMMY M MILFORD  
Owner Address: 2905 US HWY 441 S  
Owner City: COMMERCE  
Owner State: GA  
Owner Zip: 30529  
Owner City,St,Zip: COMMERCE, GA 30529  
Owner Telephone: 706 3354647

Tanks:

Tank ID: G-91993  
**Status: Removed from Ground**  
Status Date: Not reported

Tank ID: G-91993  
Product1: Gas (Historical Use)  
Material: Not Marked/Unknown  
Capacity: 550  
Pipe Material: Not Marked  
Pipe Type: Not reported  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JENNY HARRISON (Continued)**

**U003158294**

GA Financial Assurance 1:  
Region: 1  
Facility ID: 9078068  
Financial Responsibility: Not Marked

15  
NNW  
1/8-1/4  
0.195 mi.  
1031 ft.

**TROY CONSTRUCTION**  
**260 MOUNT OLIVE CHURCH RD**  
**COMMERCE, GA 30529**

**RCRA-SQG 1023967399**  
**GAR000082321**

**Relative:**  
**Higher**  
**Actual:**  
**919 ft.**

RCRA-SQG:  
Date form received by agency: 08/29/2017  
Facility name: TROY CONSTRUCTION  
Facility address: 260 MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30529  
EPA ID: GAR000082321  
Mailing address: MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30529  
Contact: JOSH RIMES  
Contact address: MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30529  
Contact country: US  
Contact telephone: 706-336-0063  
Contact email: JRIMES@TROYCONSTRUCTION.COM  
EPA Region: 04  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:  
Owner/operator name: TROY CONSTRUCTION  
Owner/operator address: MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30529  
Owner/operator country: US  
Owner/operator telephone: 706-336-0063  
Owner/operator email: JRIMES@TROYCONSTRUCTION.COM  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: TROY CONSTRUCTION  
Owner/operator address: MOUNT OLIVE CHURCH RD  
COMMERCE, GA 30529  
Owner/operator country: US  
Owner/operator telephone: 706-336-0063  
Owner/operator email: JRIMES@TROYCONSTRUCTION.COM  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TROY CONSTRUCTION (Continued)**

**1023967399**

Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COMMERCE	S112070076	ROPER PUMP CO DIVISION OF ROPER IN	OLD MAYSVILLE RD	30529	MANIFEST
COMMERCE	1007292335	ROPER PUMPS CO	OLD MAYSVILLE ROAD	30529	FTTS, HIST FTTS
COMMERCE	S107667543	PHILLIP BAIRD INERT LANDFILL	RIDGEWAY CHURCH ROAD	30529	SWF/LF

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/06/2018
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/18/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 05/18/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (404) 562-8651
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (404) 562-8651
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (404) 562-8651
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (404) 562-8651
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/16/2018	Source: Department of the Navy
Date Data Arrived at EDR: 02/22/2018	Telephone: 843-820-7326
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/09/2018
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/29/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/29/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Federal ERNS list**

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018  
Date Data Arrived at EDR: 03/27/2018  
Date Made Active in Reports: 06/08/2018  
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 06/27/2018  
Next Scheduled EDR Contact: 10/08/2018  
Data Release Frequency: Quarterly

## **State- and tribal - equivalent CERCLIS**

### SHWS: Hazardous Site Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/2017  
Date Data Arrived at EDR: 07/06/2017  
Date Made Active in Reports: 09/06/2017  
Number of Days to Update: 62

Source: Department of Environmental Protection  
Telephone: 404-657-8600  
Last EDR Contact: 06/29/2018  
Next Scheduled EDR Contact: 10/08/2018  
Data Release Frequency: Annually

### NON HSI: Non-Hazardous Site Inventory

This list was obtained by EDR in 1998 and contains property listings that have reported contamination of soil or groundwater under the Georgia Hazardous Site Response Act (HSRA). These sites were not placed on the Georgia Priority list (Hazardous Site Inventory or HSI) because their hazard evaluation scores did not exceed the threshold levels established for sites posing an imminent threat to health or the environment. Disclaimer provided by Rindt-McDuff Associates - the database information has been obtained from publicly available sources produced by other entities. While reasonable steps have been taken to insure the accuracy of the data, RMA does not guarantee the accuracy of the data. No claim is made for the actual existence of pollution at any site. This data does not constitute a legal opinion.

Date of Government Version: 03/31/2018  
Date Data Arrived at EDR: 04/17/2018  
Date Made Active in Reports: 05/15/2018  
Number of Days to Update: 28

Source: Rindt-McDuff Associates, Inc.  
Telephone: N/A  
Last EDR Contact: 04/06/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Annually

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/11/2017  
Date Data Arrived at EDR: 11/01/2017  
Date Made Active in Reports: 12/20/2017  
Number of Days to Update: 49

Source: Department of Natural Resources  
Telephone: 404-362-2696  
Source: Center for GIS, Georgia Institute of Technology  
Telephone: 404-385-0900  
Last EDR Contact: 05/04/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Semi-Annually

## **State and tribal leaking storage tank lists**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST: List of Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/30/2018	Source: Environmental Protection Division
Date Data Arrived at EDR: 06/13/2018	Telephone: 404-362-2687
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Quarterly

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/24/2017	Source: EPA Region 10
Date Data Arrived at EDR: 01/23/2018	Telephone: 206-553-2857
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/23/2018	Telephone: 415-972-3372
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2017	Source: EPA Region 8
Date Data Arrived at EDR: 01/23/2018	Telephone: 303-312-6271
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2017	Source: EPA Region 7
Date Data Arrived at EDR: 01/23/2018	Telephone: 913-551-7003
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/16/2017	Source: EPA, Region 5
Date Data Arrived at EDR: 01/23/2018	Telephone: 312-886-7439
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/06/2018	Source: EPA Region 6
Date Data Arrived at EDR: 01/23/2018	Telephone: 214-665-6597
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2017	Source: EPA Region 4
Date Data Arrived at EDR: 01/23/2018	Telephone: 404-562-8677
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/16/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/14/2017	Source: EPA Region 1
Date Data Arrived at EDR: 01/23/2018	Telephone: 617-918-1313
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 04/13/2018
Number of Days to Update: 136	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Varies

UST: Underground Storage Tank Database  
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/30/2018	Source: Environmental Protection Division
Date Data Arrived at EDR: 06/13/2018	Telephone: 404-362-2687
Date Made Active in Reports: 06/28/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Annually

AST: Above Ground Storage Tanks  
A listing of LP gas tank site locations.

Date of Government Version: 06/04/2012	Source: Office of Insurance & Safety Fire Commissioner
Date Data Arrived at EDR: 06/05/2012	Telephone: 404-656-5875
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 05/16/2018
Number of Days to Update: 9	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2017	Source: EPA Region 10
Date Data Arrived at EDR: 01/23/2018	Telephone: 206-553-2857
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/30/2017	Source: EPA Region 9
Date Data Arrived at EDR: 01/23/2018	Telephone: 415-972-3368
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2017	Source: EPA Region 8
Date Data Arrived at EDR: 01/23/2018	Telephone: 303-312-6137
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2017	Source: EPA, Region 1
Date Data Arrived at EDR: 01/23/2018	Telephone: 617-918-1313
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2017	Source: EPA Region 4
Date Data Arrived at EDR: 01/23/2018	Telephone: 404-562-9424
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/16/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/13/2018	Source: EPA Region 7
Date Data Arrived at EDR: 01/23/2018	Telephone: 913-551-7003
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017	Source: EPA Region 6
Date Data Arrived at EDR: 07/27/2017	Telephone: 214-665-7591
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 05/18/2018
Number of Days to Update: 134	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/16/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/23/2018	Telephone: 312-886-6136
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Public Record List

Sites on the Public Record Listing that have institutional controls or limitations on use are sites with Risk Reduction Standards of 3, 4, and 5.

Date of Government Version: 12/11/2017	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/07/2018	Telephone: 404-657-8600
Date Made Active in Reports: 02/28/2018	Last EDR Contact: 05/11/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies

### AUL: Uniform Environmental Covenants

A list of environmental covenants

Date of Government Version: 03/19/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/08/2018	Telephone: 404-657-8600
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 05/08/2018
Number of Days to Update: 44	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### VCP: Voluntary Cleanup Program site

Georgia's Voluntary Remediation Program Act was created to encourage voluntary investigation and remediation of contaminated properties.

Date of Government Version: 03/19/2018	Source: DNR
Date Data Arrived at EDR: 05/29/2018	Telephone: 404-657-8600
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 05/29/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/22/2018
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal Brownfields sites***

### **BROWNFIELDS: Brownfields Public Record List**

The Brownfields Public Record lists properties where response actions under the Georgia Hazardous Site Reuse and Redevelopment Act are planned, ongoing or completed.

Date of Government Version: 12/11/2017	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/07/2018	Telephone: 404-657-8600
Date Made Active in Reports: 02/28/2018	Last EDR Contact: 05/11/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2018	Telephone: 202-566-2777
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/20/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### **SWRCY: Recycling Center Listing**

A listing of recycling facility locations.

Date of Government Version: 03/23/2018	Source: Department of Community Affairs
Date Data Arrived at EDR: 03/27/2018	Telephone: 404-679-1598
Date Made Active in Reports: 05/14/2018	Last EDR Contact: 06/21/2018
Number of Days to Update: 48	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Varies

#### **HIST LF: Historical Landfills**

Landfills that were closed many years ago.

Date of Government Version: 01/15/2003	Source: Department of Natural Resources
Date Data Arrived at EDR: 01/20/2004	Telephone: 404-362-2696
Date Made Active in Reports: 02/06/2004	Last EDR Contact: 01/20/2004
Number of Days to Update: 17	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### **INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/30/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/14/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 04/18/2018
Number of Days to Update: 137	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 05/04/2018
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/01/2018	Telephone: 202-307-1000
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: No Update Planned

### CDL: Clandestine Drug Labs

A listing of clandestine drug lab site locations in the state.

Date of Government Version: 06/02/2016	Source: Georgia Bureau of Investigation
Date Data Arrived at EDR: 06/13/2016	Telephone: 404-244-2639
Date Made Active in Reports: 08/15/2016	Last EDR Contact: 05/09/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

### DEL SHWS: Delisted Hazardous Site Inventory Listing

A listing of sites delisted from the Hazardous Site Inventory.

Date of Government Version: 07/01/2017	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/06/2017	Telephone: 404-657-8636
Date Made Active in Reports: 09/06/2017	Last EDR Contact: 06/29/2018
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/01/2018	Telephone: 202-307-1000
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Quarterly

## Local Land Records

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/30/2018	Telephone: 202-564-6023
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### SPILLS: Spills Information

Oil or Hazardous Material Spills or Releases.

Date of Government Version: 05/18/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/22/2018	Telephone: 770-387-4900
Date Made Active in Reports: 06/26/2018	Last EDR Contact: 05/15/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/04/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## Other Ascertainable Records

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (404) 562-8651
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 05/25/2018
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/13/2018
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Semi-Annually

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/11/2018
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2018  
Date Data Arrived at EDR: 03/27/2018  
Date Made Active in Reports: 06/22/2018  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 06/27/2018  
Next Scheduled EDR Contact: 10/08/2018  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 05/07/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 05/08/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 06/21/2017  
Date Made Active in Reports: 01/05/2018  
Number of Days to Update: 198

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/22/2018  
Next Scheduled EDR Contact: 10/01/2018  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 01/10/2018  
Date Made Active in Reports: 01/12/2018  
Number of Days to Update: 2

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 05/25/2018  
Next Scheduled EDR Contact: 09/03/2018  
Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/09/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018  
Date Data Arrived at EDR: 05/30/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 30

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 05/30/2018  
Next Scheduled EDR Contact: 09/17/2018  
Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017  
Date Data Arrived at EDR: 11/17/2017  
Date Made Active in Reports: 12/08/2017  
Number of Days to Update: 21

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 04/20/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013  
Date Data Arrived at EDR: 10/17/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 3

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 05/30/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2017  
Date Data Arrived at EDR: 06/09/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 126

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 04/13/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016  
Date Data Arrived at EDR: 11/23/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 04/09/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 06/07/2018  
Next Scheduled EDR Contact: 09/17/2018  
Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 06/04/2018  
Next Scheduled EDR Contact: 09/17/2018  
Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017  
Date Data Arrived at EDR: 11/30/2017  
Date Made Active in Reports: 12/15/2017  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 04/27/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018  
Date Data Arrived at EDR: 04/05/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 85

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/05/2018  
Next Scheduled EDR Contact: 07/16/2018  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/16/2018	Telephone: Varies
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 06/22/2018
Number of Days to Update: 74	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015	Source: EPA/NTIS
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-424-9346
Date Made Active in Reports: 09/28/2017	Last EDR Contact: 06/28/2018
Number of Days to Update: 218	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/11/2018
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 05/07/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 05/18/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/30/2018	Telephone: 703-603-8787
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 05/31/2018	Telephone: 303-231-5959
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 05/31/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 05/30/2018
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/30/2018
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018	Source: Department of Interior
Date Data Arrived at EDR: 03/13/2018	Telephone: 202-208-2609
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/20/2018
Number of Days to Update: 87	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (404) 562-9900
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 06/06/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2018	Telephone: 202-564-2280
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/06/2018
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016	Source: Department of Defense
Date Data Arrived at EDR: 10/31/2017	Telephone: 703-704-1564
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 04/13/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Varies

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 06/01/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/20/2018  
Date Data Arrived at EDR: 02/21/2018  
Date Made Active in Reports: 03/23/2018  
Number of Days to Update: 30

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 05/23/2018  
Next Scheduled EDR Contact: 09/03/2018  
Data Release Frequency: Quarterly

## AIRS: Permitted Facility & Emissions Listing

A listing of permitted Air facilities and emissions data.

Date of Government Version: 05/02/2018  
Date Data Arrived at EDR: 05/23/2018  
Date Made Active in Reports: 06/21/2018  
Number of Days to Update: 29

Source: Department of Natural Resources  
Telephone: 404-363-7000  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 09/03/2018  
Data Release Frequency: Varies

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash landfills.

Date of Government Version: 08/01/2014  
Date Data Arrived at EDR: 08/05/2014  
Date Made Active in Reports: 09/02/2014  
Number of Days to Update: 28

Source: Department of Natural Resources  
Telephone: 404-362-2537  
Last EDR Contact: 04/25/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Varies

## DRYCLEANERS: Drycleaner Database

A list of drycleaners in the state. The listing includes drycleaner facilities, that use perchloroethylene, that responded to the Notification of Compliance Status forms. It also includes those businesses that are pick-up stores only and do not conduct dry cleaning on site.

Date of Government Version: 12/22/2014  
Date Data Arrived at EDR: 12/23/2014  
Date Made Active in Reports: 01/27/2015  
Number of Days to Update: 35

Source: Department of Natural Resources  
Telephone: 404-363-7000  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 03/30/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 06/28/2018  
Number of Days to Update: 15

Source: Department of Natural Resources  
Telephone: 404-362-4892  
Last EDR Contact: 06/13/2018  
Next Scheduled EDR Contact: 09/24/2018  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information listing for solid waste facilities.

Date of Government Version: 06/07/2018  
Date Data Arrived at EDR: 06/08/2018  
Date Made Active in Reports: 06/21/2018  
Number of Days to Update: 13

Source: Department of Natural Resources  
Telephone: 404-362-2537  
Last EDR Contact: 06/06/2018  
Next Scheduled EDR Contact: 09/24/2018  
Data Release Frequency: Varies

## NPDES: NPDES Wastewater Permit List

A listing of NPDES wastewater permits issued by the Watershed Protection Branch.

Date of Government Version: 02/01/2018  
Date Data Arrived at EDR: 02/07/2018  
Date Made Active in Reports: 03/05/2018  
Number of Days to Update: 26

Source: Department of Natural Resources  
Telephone: 404-362-2680  
Last EDR Contact: 05/11/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TIER 2: Tier 2 Data Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/25/2017	Telephone: 404-656-4852
Date Made Active in Reports: 10/30/2017	Last EDR Contact: 05/22/2018
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Annually

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Georgia.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Georgia.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Environmental Protection Division in Georgia.

Date of Government Version: N/A	Source: Environmental Protection Division
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/03/2018	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/14/2018	Telephone: 860-424-3375
Date Made Active in Reports: 03/22/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: No Update Planned

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/11/2017	Telephone: N/A
Date Made Active in Reports: 07/27/2017	Last EDR Contact: 04/23/2018
Number of Days to Update: 107	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2018  
Date Data Arrived at EDR: 05/03/2018  
Date Made Active in Reports: 06/07/2018  
Number of Days to Update: 35

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 07/25/2017  
Date Made Active in Reports: 09/25/2017  
Number of Days to Update: 62

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/12/2018  
Next Scheduled EDR Contact: 07/30/2018  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/21/2018  
Next Scheduled EDR Contact: 09/03/2018  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 04/13/2017  
Date Made Active in Reports: 07/14/2017  
Number of Days to Update: 92

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/11/2018  
Next Scheduled EDR Contact: 09/24/2018  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Child Care Centers

Source: Department of Human Resources

Telephone: 404-651-5562

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

## Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

ROPER PUMP  
3475 OLD MAYSVILLE ROAD  
COMMERCE, GA 30529

### TARGET PROPERTY COORDINATES

Latitude (North):	34.214703 - 34° 12' 52.93"
Longitude (West):	83.48264 - 83° 28' 57.50"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	271280.3
UTM Y (Meters):	3788554.5
Elevation:	899 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	6045647 COMMERCE, GA
Version Date:	2014

West Map:	6045683 APPLE VALLEY, GA
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

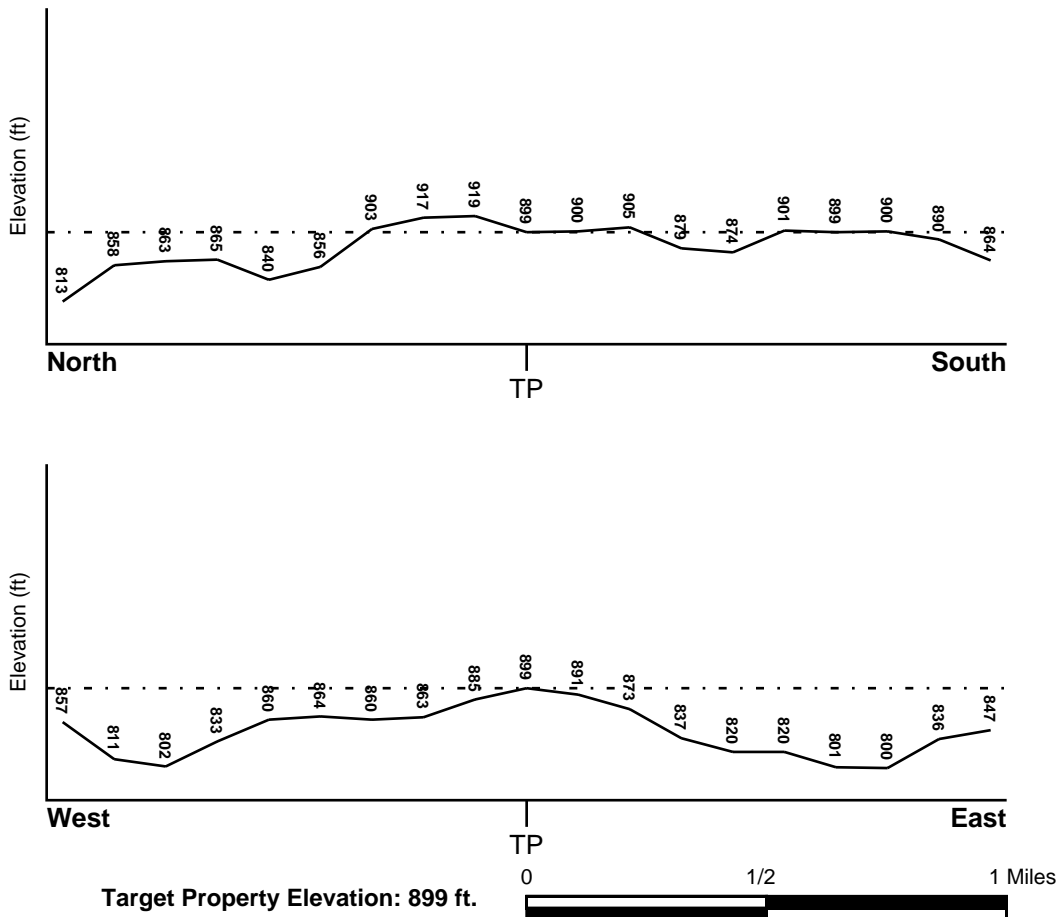
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
13157C0155C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
13157C0134C	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
COMMERCE	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### ROCK STRATIGRAPHIC UNIT

Era: Paleozoic  
System: Pennsylvanian  
Series: Felsic paragneiss and schist  
Code: mm1 (*decoded above as Era, System & Series*)

### GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CECIL

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
2	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
4	50 inches	75 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam  
loam  
fine sandy loam

Surficial Soil Types: sandy loam  
loam  
fine sandy loam

Shallow Soil Types: clay  
sandy clay  
gravelly - loam

Deeper Soil Types: loamy fine sand  
sandy loam  
weathered bedrock

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

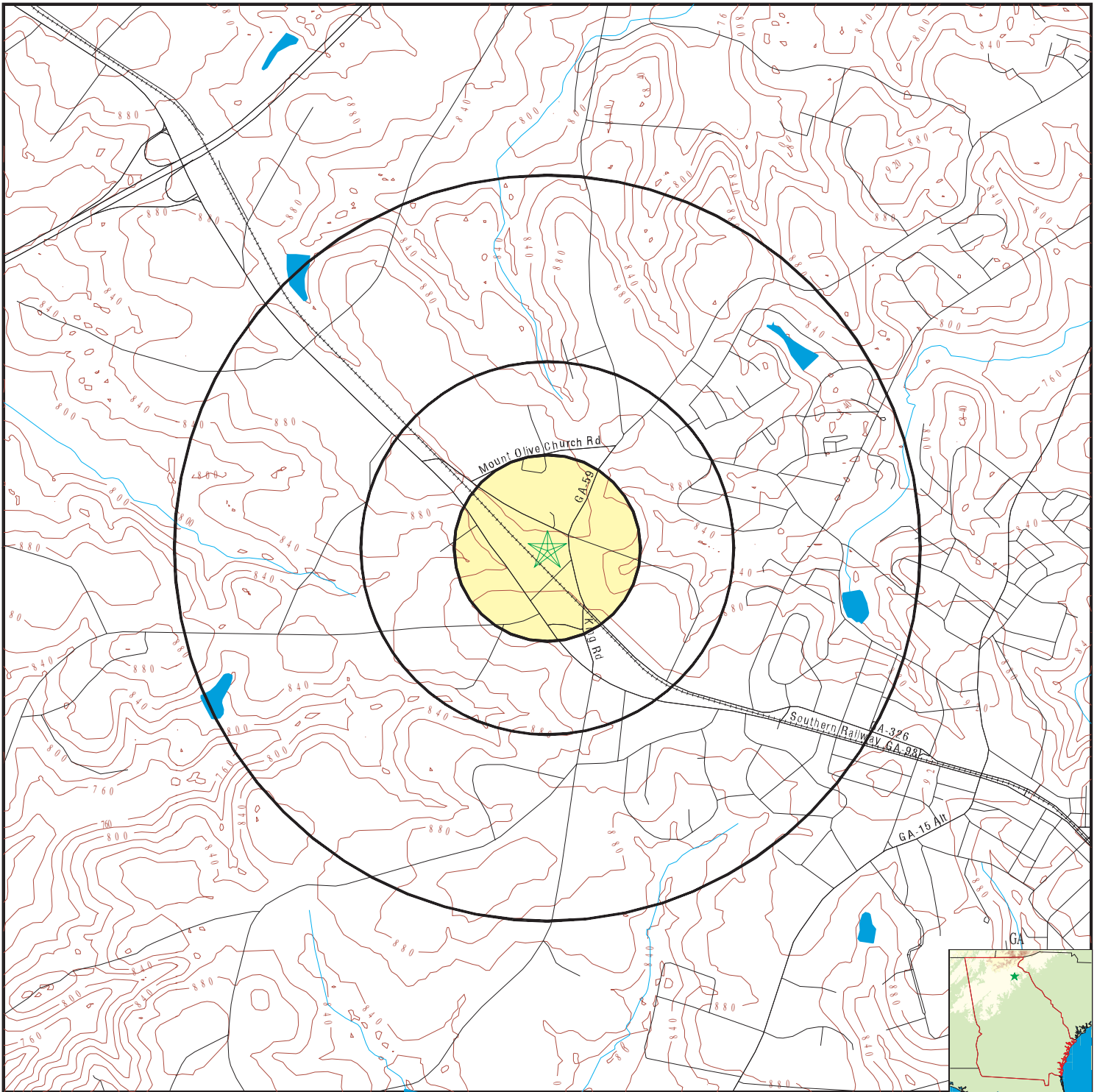
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

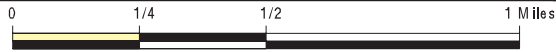
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 5351947.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Wildlife Areas
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: Roper Pump  
 ADDRESS: 3475 Old Maysville Road  
 Commerce GA 30529  
 LAT/LONG: 34.214703 / 83.48264

CLIENT: Wenck  
 CONTACT: Shannon Fuller  
 INQUIRY #: 5351947.2s  
 DATE: July 05, 2018 2:07 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for JACKSON County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30529

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

## HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

#### USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

#### DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

## OTHER STATE DATABASE INFORMATION

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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## Appendix B

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Boring Logs, Well Construction Diagrams, and Field Sampling Forms



**WENCK**

# LOG OF BORING IW-1

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 10/3/18  
Date Completed : 10/5/18  
Hole Diameter : 6 inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon

Drilling Contractor : Premier  
Driller : Josh  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected	
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY (RESIDUUM)	0.1		
10		ML		Reddish orange, moist, fine-grained, soft, CLAYEY SILT, some mica, some sand (RESIDUUM)	0.2 0.5 0.9		
20		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	28.1		
		SM		Tan and white, wet, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)			
		SM		Orange, white, and black, wet, medium to fine-grained, loose, SILTY SAND (SAPROLITE)	51.2 70.1 127.0		
40		SP		Pink, white, and grey, wet, medium to fine-grained, loose, SAND (SAPROLITE)	186.7 190.1		
50		SM		Tan, pink, and white, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)	297.0		
60		SP		White and pink, wet, coarse grained, loose, SAND (SAPROLITE)	437.4 274.5 101.0		
70		Refusal at 71 feet bgs					
80							



**WENCK**

# LOG OF BORING IW-2

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 10/3/18  
Date Completed : 10/5/18  
Hole Diameter : 6 inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon

Drilling Contractor : Premier  
Driller : Josh  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY (RESIDUUM)	0.4	
10		ML		Reddish orange, moist, fine-grained, soft, CLAYEY SILT, some mica, some sand (RESIDUUM)	0.2 0.3	
20		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	1.4	
		SM		Tan and white, wet, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	27.0	
		SM		Orange, white, and black, wet, medium to fine-grained, loose, SILTY SAND (SAPROLITE)	36.1	
30		SM			71.5	
40		SP		Pink, white, and grey, wet, medium to fine-grained, loose, SAND (SAPROLITE)	152.2	
		SP			168.2	
50		SM		Tan, pink, and white, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)	176.0	
		SM			303.1	
60		SP		White and pink, wet, coarse grained, loose, SAND (SAPROLITE)	467.3	
		SP			289.1	
70					98.3	
80				Refusal at 72 feet bgs		



Roper Pump  
 3475 Old Maysville Road  
 Commerce, GA  
 Project # B6572-0001

Date Started : 10/2/18  
 Date Completed : 10/4/18  
 Hole Diameter : 6 inch  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Split Spoon

Drilling Contractor : Premier  
 Driller : Josh  
 Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected	
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY, trace mica (RESIDUUM)	0.0		
10		CL		Reddish orange, dry, fine-grained, medium stiff, SILTY CLAY, some mica, some sand (RESIDUUM)	0.0		
		CL		Reddish brown, moist, fine-grained, medium stiff, SILTY CLAY, micaceous, some sand (RESIDUUM)	0.1		
20		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	0.1		
					1.7		
					0.5		
30		CL		Reddish brown, wet, fine-grained, soft, SILTY CLAY, trace mica (RESIDUUM)			
		SM		White and pink, wet, medium to fine-grained, medium dense, SILTY SAND, some silt (SAPROLITE)			
40		CL		Red, wet, fine-grained, soft, CLAY (RESIDUUM)			
		SP		White, grey, and pink, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)			
60		Boring terminated at 60 feet bgs					
70							



**WENCK**

# LOG OF BORING IW-4

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 10/2/18  
Date Completed : 10/4/18  
Hole Diameter : 6 inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon

Drilling Contractor : Premier  
Driller : Josh  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected	
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY, trace mica (RESIDUUM)	0.0		
		CL		Reddish orange, dry, fine-grained, medium stiff, SILTY CLAY, some sand (RESIDUUM)	0.4		
10		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	0.1		
		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	0.2		
20		CL		Reddish Orange, moist, fine-grained, soft, SILTY CLAY, some sand (SAPROLITE)	0.7		
		SM		White and pink, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)	2.2		
30		SM		White and pink, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)			
		CL		Red, wet, fine-grained, soft, CLAY (RESIDUUM)			
40		SP		White, grey, and pink, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)			
		SP		White, grey, and pink, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)			
50		SP		White, grey, and pink, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)			
60		Boring terminated at 60 feet bgs					
70		Boring terminated at 60 feet bgs					





**WENCK**

# LOG OF BORING IW-5

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 10/2/18  
Date Completed : 10/4/18  
Hole Diameter : 6 inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon

Drilling Contractor : Premier  
Driller : Josh  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY, trace mica (RESIDUUM)	0.1	
		CL		Reddish orange, dry, fine-grained, medium stiff, SILTY CLAY, some sand (RESIDUUM)	0.3	
10		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	0.1	
		CL		Reddish Orange, moist, fine-grained, soft, SILTY CLAY, some sand (SAPROLITE)	0.1	
20		SM		White and pink, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)	1.9	
		CL		Red, wet, fine-grained, soft, CLAY (RESIDUUM)	0.5	
30		SP		White, grey, and pink, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)	0.2	
40		SP		White, wet, coarse grained, loose, SAND (SAPROLITE)		
50						
60						
70						
80				Refusal at 74 feet bgs		



Roper Pump  
 3475 Old Maysville Road  
 Commerce, GA  
 Project # B6572-0001

Date Started : 10/3/18  
 Date Completed : 10/4/18  
 Hole Diameter : 6 inch  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Split Spoon

Drilling Contractor : Premier  
 Driller : Josh  
 Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected
0		CL		Reddish brown, dry, fine-grained, soft, SILTY CLAY, trace mica (RESIDUUM)	0.1	
10		CL		Reddish orange, dry, fine-grained, medium stiff, SILTY CLAY, some sand (RESIDUUM)	0.1	
20		SM		Tan and white, moist, medium to fine-grained, loose, SILTY SAND, some silt (SAPROLITE)	0.0	
30		SM		White and pink, wet, medium to fine-grained, medium dense, SILTY SAND (SAPROLITE)	0.1	
40		SP		White, wet, medium to fine-grained, medium dense, SAND (SAPROLITE)	0.3	
50		SP		White, wet, coarse grained, loose, SAND (SAPROLITE)	0.1	
60		SP		White, wet, coarse grained, loose, SAND (SAPROLITE)		
70		SP		White, wet, coarse grained, loose, SAND (SAPROLITE)		
80				Boring terminated at 80 feet bgs		



**WENCK**

# LOG OF BORING MW-4I

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 7/17/18  
Date Completed : 7/17/18  
Hole Diameter : 4 inch  
Drilling Method : GeoProbe  
Sampling Method : DPT

Drilling Contractor : Geolab  
Driller : Ben  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected
0				Brown, moist, fine-grained, soft, SANDY SILT, trace mica (RESIDUUM)	0.0	
5		ML			0.0	
10					0.0	
15		SP-SM		White and black, moist, fine-grained, loose, POORLY-GRADED SAND, some mica (SAPROLITE)	0.0	
20		SP-SM		Light brown, white, and black, moist, medium to fine-grained, loose, POORLY-GRADED SAND, some mica/clay (SAPROLITE)	0.0	
25				Brown, wet, fine-grained, loose, SILTY SAND, some mica/clay (SAPROLITE)	0.0	
30		SM			0.0	
35					0.0	
40				Refusal at 37 feet BGS		



**WENCK**

# LOG OF BORING MW-8I

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

Roper Pump  
3475 Old Maysville Road  
Commerce, GA  
Project # B6572-0001

Date Started : 10/1/18  
Date Completed : 10/2/18  
Hole Diameter : 6 inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon

Drilling Contractor : Premier  
Driller : Josh  
Logged By : MCP

Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected
0		ML		Topsoil		
0 - 5		CL		Red, moist, fine-grained, medium stiff, CLAY, some mica (RESIDUUM)	0.8	
5 - 10					0.4	
10 - 15		SP		White, moist, medium to fine-grained, loose, SAND, some mica (SAPROLITE)	0.8	
15 - 20					0.7	
20 - 25		SP		White and pink, moist, medium to fine-grained, loose, SAND (SAPROLITE)	0.5	
25 - 30						
30 - 50		SP		White, black, and pink, wet, medium to fine-grained, loose, SAND (SAPROLITE)	0.7	
50 - 60				Boring terminated at 50 feet bgs		



Roper Pump  
 3475 Old Maysville Road  
 Commerce, GA  
 Project # B6572-0001

Date Started : 10/1/18  
 Date Completed : 10/2/18  
 Hole Diameter : 6 inch  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Split Spoon

Drilling Contractor : Premier  
 Driller : Josh  
 Logged By : MCP

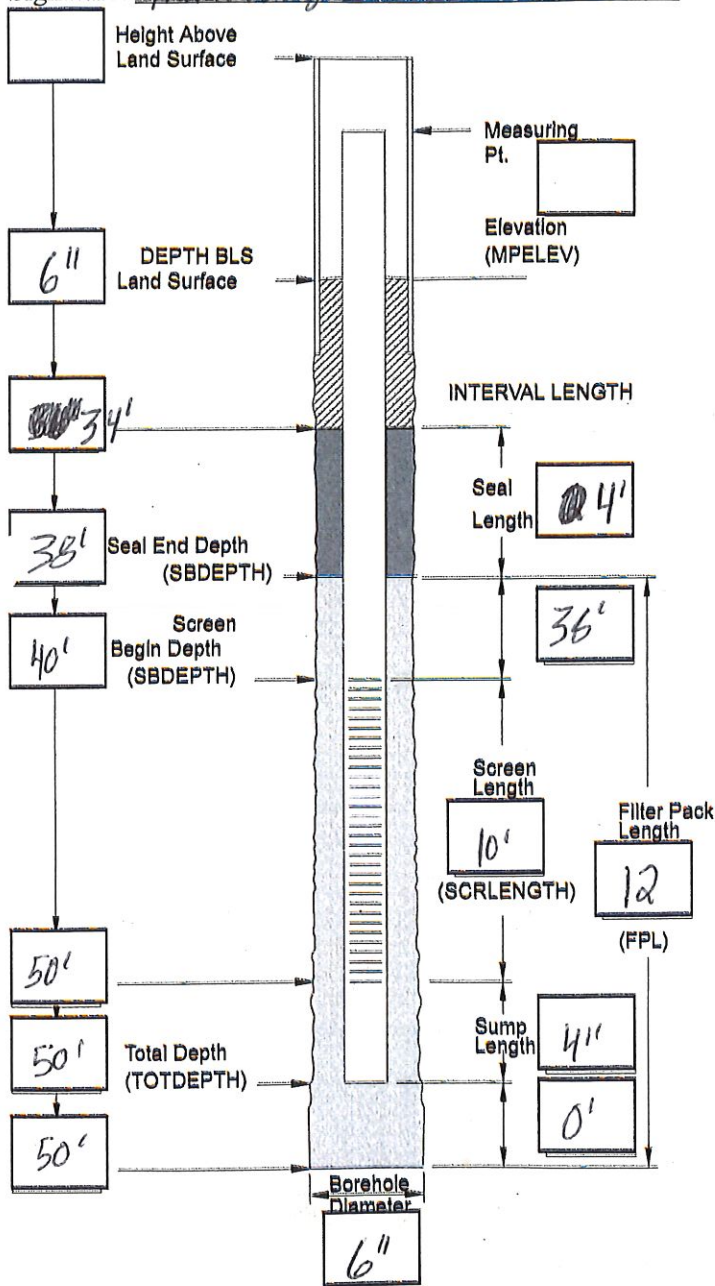
Depth in Feet	Approx Surf Elev	USCS	GRAPHIC	DESCRIPTION	PID (PPM)	Soil Analytica Collected	
0		ML		Topsoil			
0 - 5		SM		Red and white, dry, fine-grained, very loose, SILTY SAND, some mica (RESIDUUM)	0.8		
5 - 10		SP		Red and tan, moist, fine-grained, very loose, SAND, some mica (RESIDUUM)	0.5		
10 - 15		SP		Red and tan, moist, fine-grained, very loose, SAND, some mica (RESIDUUM)	0.2		
15 - 20		SP		Red and tan, moist, fine-grained, very loose, SAND, some mica (RESIDUUM)	0.7		
20 - 25		SC		Tan and black, moist, medium to fine-grained, loose, CLAYEY SAND, some silt (SAPROLITE)	0.6		
25 - 30		SC		Tan and black, moist, medium to fine-grained, loose, CLAYEY SAND, some silt (SAPROLITE)	0.5		
30 - 35		SP		Tan and black, wet, medium to fine-grained, medium dense, SAND, some mica (SAPROLITE)	0.6		
35 - 40		SP		Tan, white, and black, wet, medium to fine-grained, medium dense, SAND, micaceous (SAPROLITE)	0.4		
40 - 45		SP		Tan, white, and black, wet, medium to fine-grained, medium dense, SAND, micaceous (SAPROLITE)	0.4		
45 - 50		SP		Tan, white, and black, wet, medium to fine-grained, medium dense, SAND, micaceous (SAPROLITE)	0.3		
50 - 60		Boring terminated at 50 feet bgs					

PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): MW-31  
 Drilling Company: Premier  
 Drillers: Josh  
 Geologist/Engineer: M. Padgett  
 Signature: M. Padgett

Site: Roper  
 Installation Method: HSA  
 Casing Installation Date (INSDATE): 10-1-13  
 Well Type (WTCCODE): MW  
 Well Completion Method (WCMCODE): Flush  
 Geologic Completion Zone (GZCODE): \_\_\_\_\_



**Well Completion**

Guard Posts (Y /  N) Date: 10-2-13  
 Surface Pad Size: 2 ft x 2 ft

**Protective Casing or Cover**

Diameter/Type: Steel - Flush  
 Depth BGS: 0 Weep Hole (Y /  N)

**Grout**

Composition/Proportions: Portland Cement Type I/II

Placement Method: Tremmie

**Seal**

Date: 10-1-13  
 Type: Bentonite  
 Source: PSI Holeplug-Halliburton  
 Set-up/Hydration Time: 1330-1530 = 2 Hours  
 Placement Method: Poured - in place  
 Vol. Fluid Added: 100 gallons of grout

**Filter Pack**

Type: Sand-20/30  
 Source: PSI  
 Amount Used: 9 Bags  
 Placement Method: Poured - Inside Auger

**Well Riser Pipe**

Casing Material (CMACODE): PVC  
 Casing Inside Diameters (CASDIAM): 2 in.

**Screen**

Material: PVC  
 Inside Diameter (SCRDIAM): 2 in.  
 Screen Slot Size (SOUA): 0.010 in.  
 Percent Open Area (PCTOPEN): \_\_\_\_\_  
 Sump or Bottom Cap ( Y /  N)  
 Type/Length: 4" PVC

**Backfill Plug (Y /  N)**

Material: \_\_\_\_\_  
 Placement Method: \_\_\_\_\_  
 Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**

Introduced (Gal): 20 Recovered (Gal): 0

**Reviewed**

By: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments**

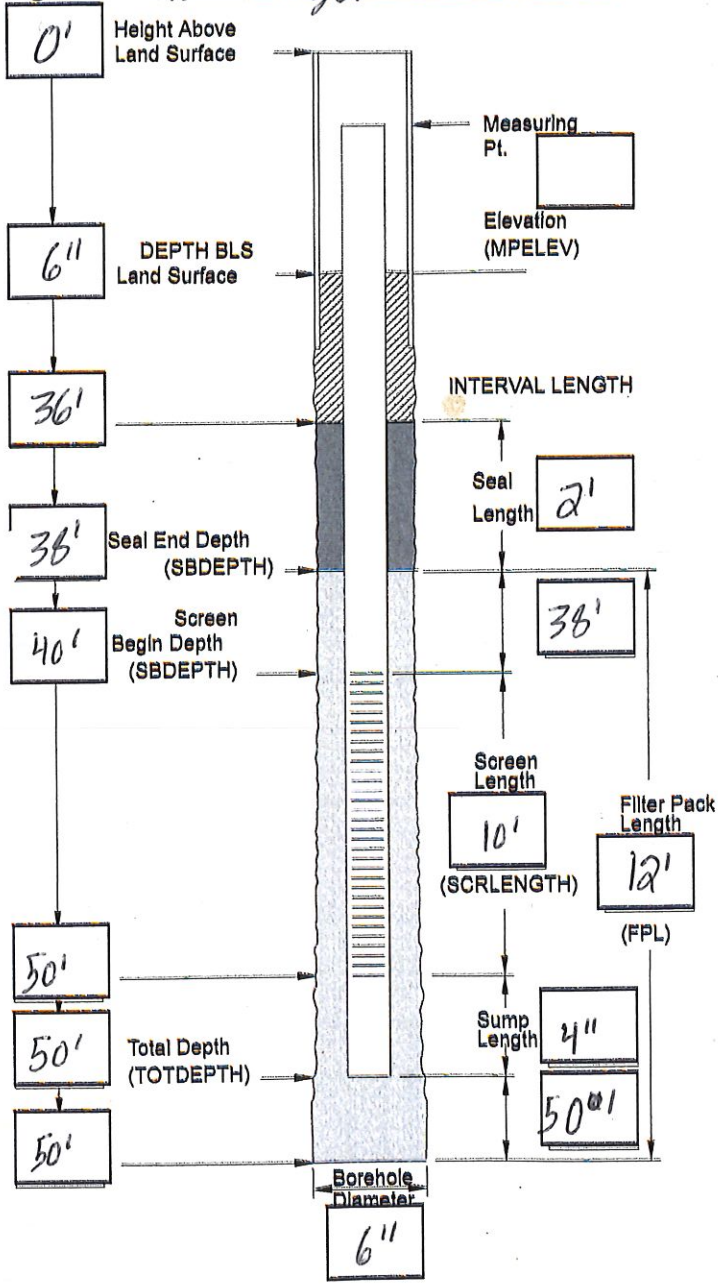
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PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): MW-19DI  
 Drilling Company: Premier  
 Drillers: Josh  
 Geologist/Engineer: M. Pudgett  
 Signature: Mark Pudgett

Site: Roper  
 Installation Method: DHSA  
 Casing Installation Date (INSDATE): 10-1-13  
 Well Type (WTCCODE): MW  
 Well Completion Method (WCMCODE): Flush  
 Geologic Completion Zone (GZCODE): \_\_\_\_\_



**Well Completion**

Guard Posts (Y / ) Date: 10-2-13  
 Surface Pad Size: 2 ft x 2 ft  
**Protective Casing or Cover**  
 Diameter/Type: Steel-Flush  
 Depth BGS: 0 Weep Hole (Y / )  
**Grout**  
 Composition/Proportions: Portland Cement-Type  
I/I  
 Placement Method: Membrane Pipe

**Seal** Date: 10-1-13  
 Type: Bentonite  
 Source: Hole Plug - Halliburton  
 Set-up/Hydration Time: 1200-1300 = 1 Hour  
 Placement Method: Poured - 1 Bag  
 Vol. Fluid Added: 90-gallons of grout

**Filter Pack**  
 Type: 20/30 Sand  
 Source: DSI  
 Amount Used: 5 Bags  
 Placement Method: Poured-in Augers

**Well Riser Pipe**  
 Casing Material (CMACODE): PVC  
 Casing Inside Diameters (CASDIAM): 2 in.

**Screen**  
 Material: PVC  
 Inside Diameter (SCRDIAM): 2 in.  
 Screen Slot Size: (SOUA): 0.010 in.  
 Percent Open Area (PCTOPEN): \_\_\_\_\_  
 Sump or Bottom Cap ( / N)  
 Type/Length: 4'' - PVC

**Backfill Plug (Y / )**  
 Material: \_\_\_\_\_  
 Placement Method: \_\_\_\_\_  
 Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**  
 Introduced (Gal): 20 Recovered (Gal): 0

**Reviewed**  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments**

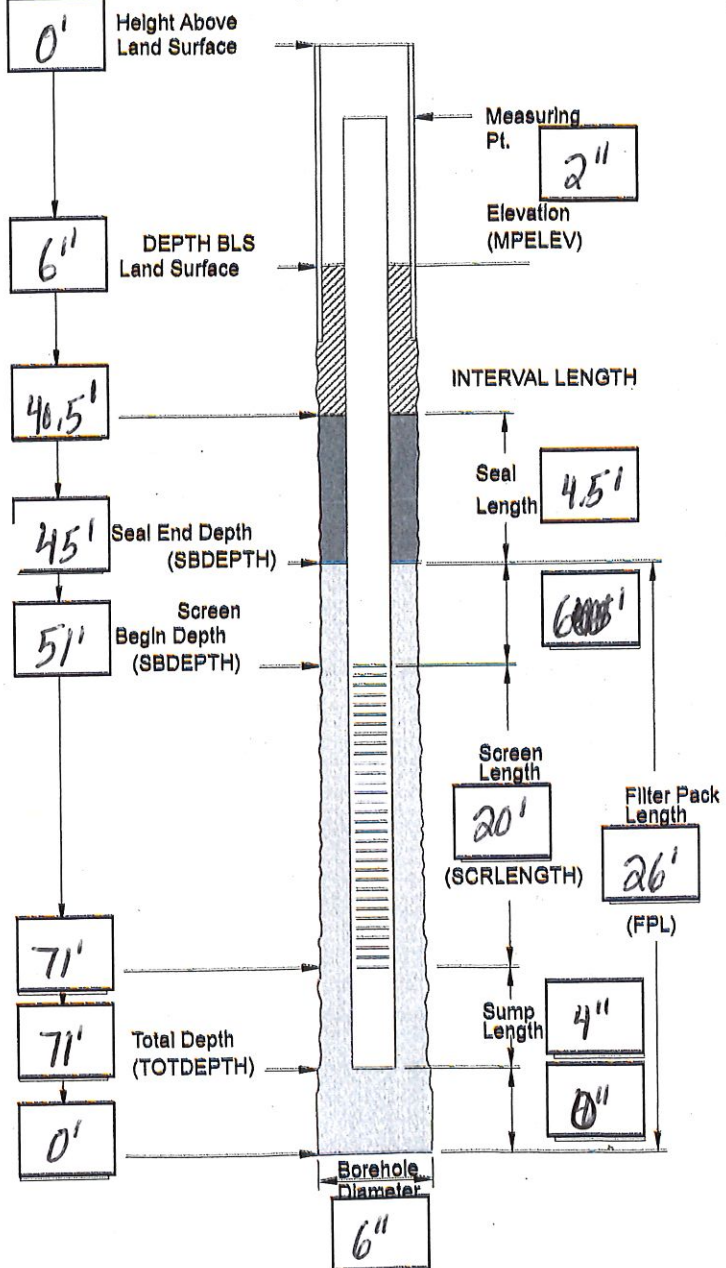
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PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): Iw-1  
 Drilling Company: Premier  
 Drillers: Josh  
 Geologist/Engineer: M. Padgett  
 Signature: Mark Padgett

Site: Roper  
 Installation Method: HSA  
 Casing Installation Date (INSDATE): 10-4-18  
 Well Type (WTCCODE): Inj. well  
 Well Completion Method (WCMCODE): Flush  
 Geologic Completion Zone (GZCODE): Deep



**Well Completion**  
 Guard Posts (Y / ) Date: 10-4-18  
 Surface Pad Size: 2 ft x 2 ft  
**Protective Casing or Cover**  
 Diameter/Type: Steel-Flush  
 Depth BGS: 0 Weep Hole (Y / )  
**Grout**  
 Composition/Proportions: Portland Cement - Type I/II  
 Placement Method: Tremie Pipe

**Seal** Date: 10-4-18  
 Type: Bentonite  
 Source: Halliburton - Holeplug  
 Set-up/Hydration Time: 6930-1200 = 2.5 Hours  
 Placement Method: Poured  
 Vol. Fluid Added: 0

**Filter Pack**  
 Type: Sand-Type 4  
 Source: DSI  
 Amount Used: 14 Bags  
 Placement Method: Poured - in layers

**Well Riser Pipe**  
 Casing Material (CMACODE): PVC  
 Casing Inside Diameters (CASDIAM): 2 in.

**Screen**  
 Material: PVC  
 Inside Diameter (SCRDIAM): 2 in.  
 Screen Slot Size: (SOUA): 0.020 in.  
 Percent Open Area (PCTOPEN): -  
 Sump or Bottom Cap (Y / )  
 Type/Length: 4'' PVC

**Backfill Plug (Y / )**  
 Material: \_\_\_\_\_  
 Placement Method: \_\_\_\_\_  
 Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**  
 Introduced (Gal): \_\_\_\_\_ Recovered (Gal): \_\_\_\_\_  
**Reviewed**  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments**

\_\_\_\_\_  
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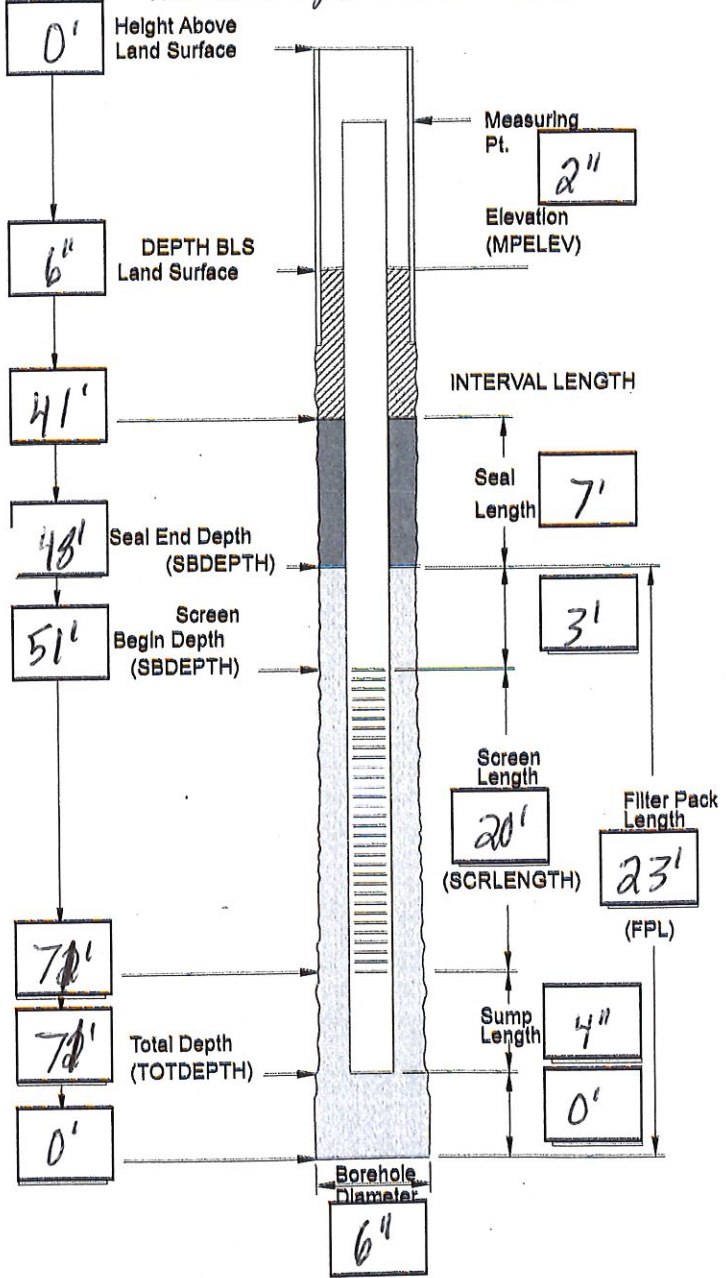


PROJECT # B6572

### WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

Well I.D. (LOCID): Iw-2  
Drilling Company: Premier  
Drillers: Josh  
Geologist/Engineer: M. Padgett  
Signature: M. Padgett

Site: Roper  
Installation Method: HSA  
Casing Installation Date (INSDATE): 10-3-18  
Well Type (WTCCODE): Inj. Well  
Well Completion Method (WCMCODE): Flush  
Geologic Completion Zone (GZCODE): DEEP



#### Well Completion

Guard Posts (Y /  N) Date: 10-4-18  
Surface Pad Size: 2 ft x 2 ft  
**Protective Casing or Cover**  
Diameter/Type: Steel-Flush  
Depth BGS: 0' Weep Hole (Y /  N)  
**Grout**  
Composition/Proportions: Quickrete-Portland cement  
Type I/#  
Placement Method: Tremie Pipe

**Seal** Date: 10-3-18  
Type: Bentonite  
Source: Halliburton-Holeplug  
Set-up/Hydration Time: 1630-1330=21 Hours  
Placement Method: Poured  
Vol. Fluid Added: 0

**Filter Pack**  
Type: Sand-Type 4  
Source: PSI  
Amount Used: 14 Bags  
Placement Method: Poured-in layers

**Well Riser Pipe**  
Casing Material (CMACODE): PVC  
Casing Inside Diameters (CASDIAM): 2 in.

**Screen**  
Material: PVC  
Inside Diameter (SCRDIAM): 2 in.  
Screen Slot Size: (SOUA): 0.020 in.  
Percent Open Area (PCTOPEN): \_\_\_\_\_  
Sump or Bottom Cap (Y / N)  
Type/Length: PVC-4 inches

**Backfill Plug (Y /  N)**  
Material: \_\_\_\_\_  
Placement Method: \_\_\_\_\_  
Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**  
Introduced (Gal): \_\_\_\_\_ Recovered (Gal): \_\_\_\_\_

**Reviewed**  
By: \_\_\_\_\_ Date: \_\_\_\_\_

#### Comments

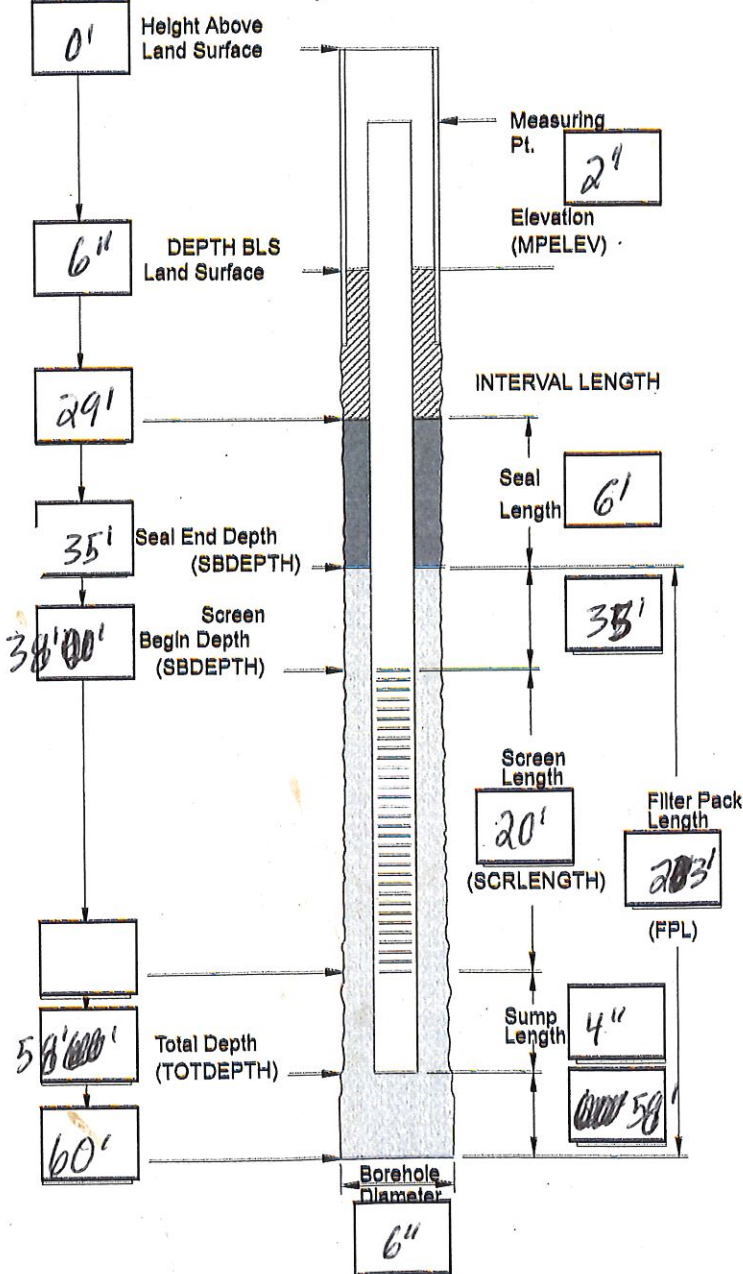
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PROJECT # B6572

### WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

Well I.D. (LOCID): IW-3  
Drilling Company: Premier  
Drillers: Josh  
Geologist/Engineer: M. Padgett  
Signature: M. Padgett

Site: Refer  
Installation Method: HSA  
Casing Installation Date (INSDATE): 10-2-18  
Well Type (WTCCODE): Inj. well  
Well Completion Method (WCMCODE): \_\_\_\_\_  
Geologic Completion Zone (GZCODE): \_\_\_\_\_



#### Well Completion

Guard Posts (Y / ) Date: 10-4-18  
Surface Pad Size: 2 ft x 2 ft

#### Protective Casing or Cover

Diameter/Type: Steel-Flush  
Depth BGS: 0' Weep Hole (Y / )

#### Grout

Composition/Proportions: Portland Cement-Type I/II  
Placement Method: Tremie Pipe

#### Seal

Date: 10-2-18  
Type: Bentonite  
Source: Halliburton-Hole Plug  
Set-up/Hydration Time: 1430-1815 = 45.75 Hours  
Placement Method: Poured  
Vol. Fluid Added: 0

#### Filter Pack

Type: Sand-Type 4  
Source: DSI  
Amount Used: 17 Bags  
Placement Method: Poured-in Augers

#### Well Riser Pipe

Casing Material (CMACODE): PVC  
Casing Inside Diameters (CASDIAM): 2 in.

#### Screen

Material: PVC  
Inside Diameter (SCRDIAM): 2 in.  
Screen Slot Size (SOUA): 0.020 in.  
Percent Open Area (PCTOPEN): -

#### Sump or Bottom Cap (Y / )

Type/Length: 4" PVC

#### Backfill Plug (Y / )

Material: \_\_\_\_\_  
Placement Method: \_\_\_\_\_

Set-up/Hydration Time: \_\_\_\_\_

#### Total Water Volume During Construction

Introduced (Gal): \_\_\_\_\_ Recovered (Gal): \_\_\_\_\_

#### Reviewed

By: \_\_\_\_\_ Date: \_\_\_\_\_

#### Comments

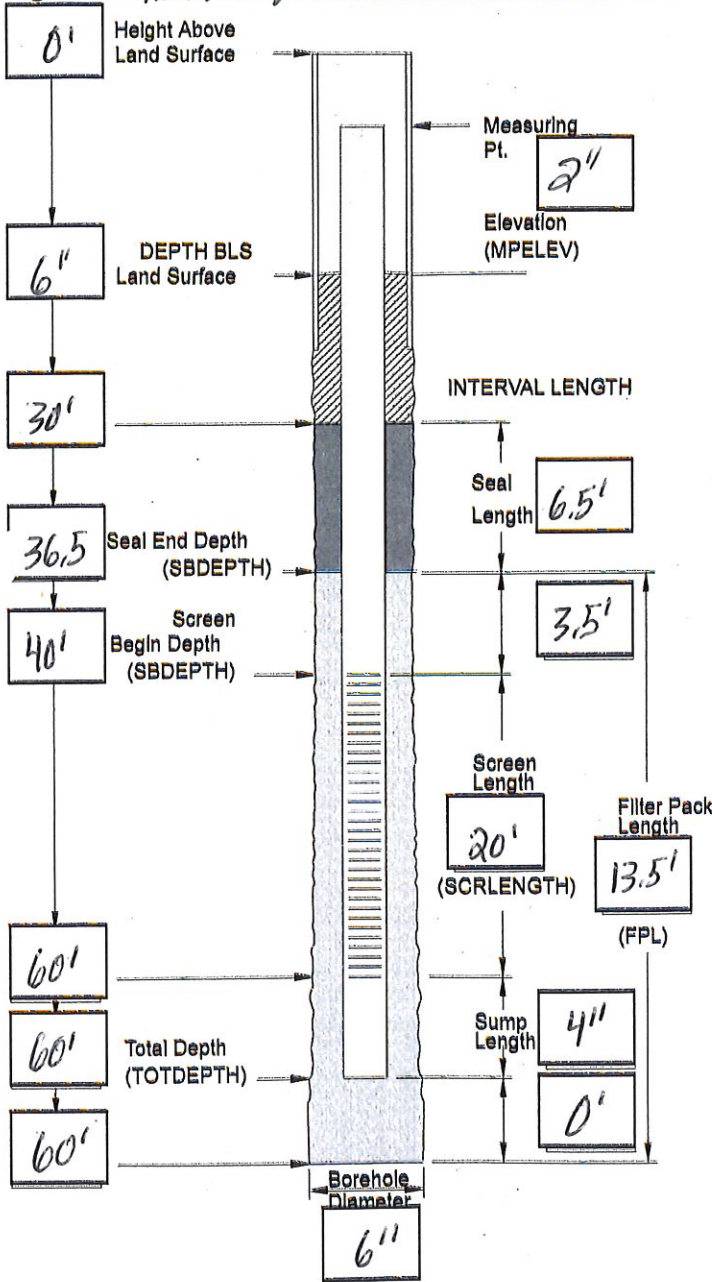
2 ft of heave in Boring

PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): M IW-4  
Drilling Company: Premier  
Drillers: Josh  
Geologist/Engineer: M. Pudgeff  
Signature: Mark Pudgeff

Site: Roper  
Installation Method: HSA  
Casing Installation Date (INSDATE): 10-2-18  
Well Type (WTCCODE): BW  
Well Completion Method (WCMCODE): Flush  
Geologic Completion Zone (GZCODE): -



**Well Completion**

Guard Posts (Y / ) Date: 10-4-18  
Surface Pad Size: 2 ft x 2 ft

**Protective Casing or Cover**

Diameter/Type: Steel-Flush  
Depth BGS: 0' Weep Hole (Y / N)

**Grout**

Composition/Proportions: Portland Cement - Type I/II  
Placement Method: Tremie Pipe

**Seal**

Date: 10-2-18  
Type: Bentonite  
Source: DS Hole Plug - Halliburton  
Set-up/Hydration Time: 1130-1100 = 47.5 Hours  
Placement Method: Poured  
Vol. Fluid Added: 5 gallons

**Filter Pack**

Type: Sand - Duro Type 4  
Source: DS  
Amount Used: 10 bags  
Placement Method: Poured - In Augers

**Well Riser Pipe**

Casing Material (CMACODE): PVC  
Casing Inside Diameters (CASDIAM): 2 in.

**Screen**

Material: PVC  
Inside Diameter (SCRDIAM): 2 in.  
Screen Slot Size: (SOUA): 0.020 in.  
Percent Open Area (PCTOPEN): -  
Sump or Bottom Cap ( / N)

Type/Length: 4" PVC

**Backfill Plug (Y / )**

Material: -  
Placement Method: -  
Set-up/Hydration Time: -

**Total Water Volume During Construction**

Introduced (Gal): - Recovered (Gal): -

**Reviewed**

By: - Date: -

**Comments**

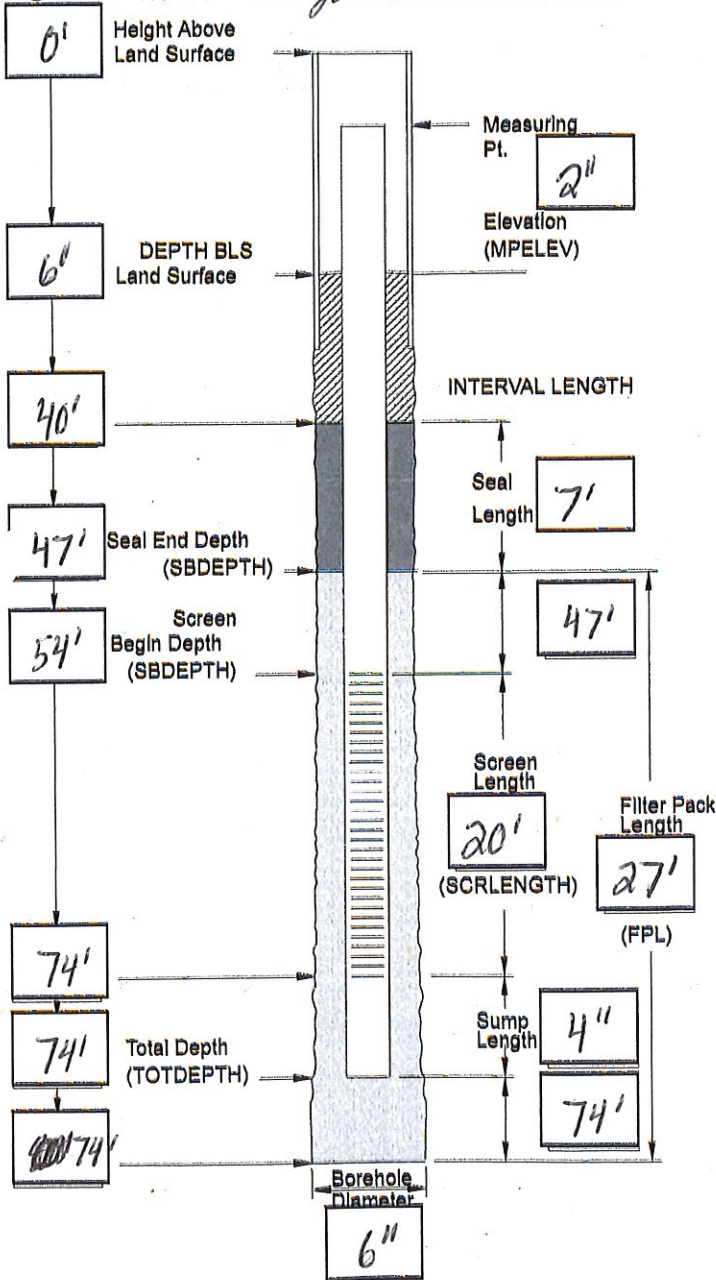
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PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): IW-5  
 Drilling Company: Premier  
 Drillers: Josh  
 Geologist/Engineer: M. Padgett  
 Signature: MAR Padgett

Site: Roper  
 Installation Method: HSA  
 Casing Installation Date (INSDATE): 10-2-13  
 Well Type (WTCCODE): Inj. well  
 Well Completion Method (WCMCODE): Flush  
 Geologic Completion Zone (GZCODE): DEEP



**Well Completion**

Guard Posts (Y /  N) Date: 10-4-13  
 Surface Pad Size: 2 ft x 2 ft

**Protective Casing or Cover**

Diameter/Type: Steel-Flush  
 Depth BGS: 0' Weep Hole (Y /  N)

**Grout**

Composition/Proportions: Portland cement - Type I/II  
 Placement Method:  tremmie Pipe

**Seal**

Date: 10-2-13  
 Type: Bentonite  
 Source: Holeplug - Halliburton  
 Set-up/Hydration Time: 1700 - 1100 = 42 Hours  
 Placement Method: Poured  
 Vol. Fluid Added: \_\_\_\_\_

**Filter Pack**

Type: Sand - Type 4  
 Source: DSI  
 Amount Used: 10 Bags  
 Placement Method: Poured - in augers

**Well Riser Pipe**

Casing Material (CMACODE): PVC  
 Casing Inside Diameters (CASDIAM): 2 in.

**Screen**

Material: PVC  
 Inside Diameter (SCRDIAM): 2 in.  
 Screen Slot Size (SOUA): 0.020 in.  
 Percent Open Area (PCTOPEN): -  
 Sump or Bottom Cap ( Y /  N)  
 Type/Length: 4" PVC

**Backfill Plug (Y /  N)**

Material: \_\_\_\_\_  
 Placement Method: \_\_\_\_\_  
 Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**

Introduced (Gal): \_\_\_\_\_ Recovered (Gal): \_\_\_\_\_

**Reviewed**

By: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments**

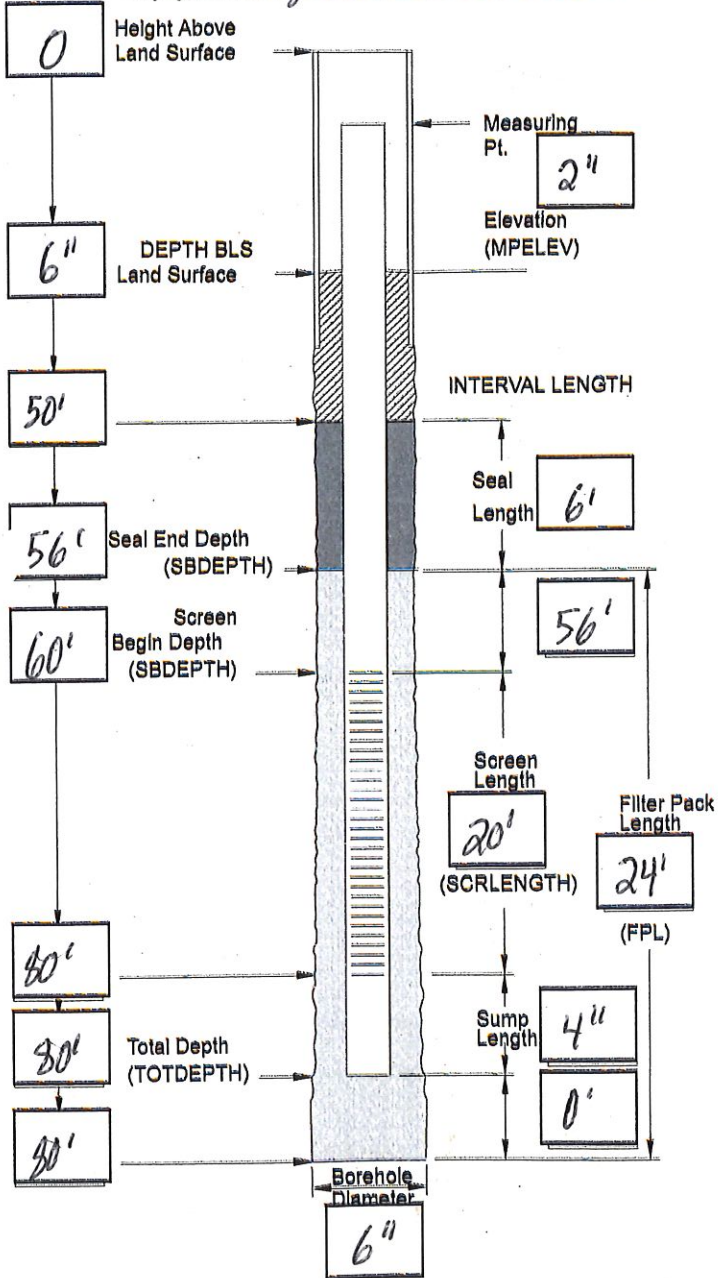
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PROJECT # B6572

**WELL CONSTRUCTION LOG  
ABOVE GROUND COMPLETION**

Well I.D. (LOCID): IW-6  
 Drilling Company: Premier  
 Drillers: Josh  
 Geologist/Engineer: M. Padgett  
 Signature: Mark Padgett

Site: Roper  
 Installation Method: HSA  
 Casing Installation Date (INSDATE): 10-3-18  
 Well Type (WTCCODE): Inj. well  
 Well Completion Method (WCMCODE): Flush  
 Geologic Completion Zone (GZCODE): DEEP



**Well Completion**

Guard Posts (Y / ) Date: 10-4-18  
 Surface Pad Size: 2 ft x 2 ft  
**Protective Casing or Cover**  
 Diameter/Type: Steel-Flush  
 Depth BGS: 0' Weep Hole (Y / N)  
**Grout**  
 Composition/Proportions: Portland Cement Type I/II  
 Placement Method: tremmie pipe

**Seal**

Date: 10-3-18  
 Type: Bentonite  
 Source: Halliburton - Holeplug  
 Set-up/Hydration Time: 1115 - 1115 = 24 Hours  
 Placement Method: Poured  
 Vol. Fluid Added: 0

**Filter Pack**

Type: Sand-Type 4  
 Source: DST  
 Amount Used: 14 Bags  
 Placement Method: Poured-in augers

**Well Riser Pipe**

Casing Material (CMACODE): PVC  
 Casing Inside Diameters (CASDIAM): 2 in.

**Screen**

Material: PVC  
 Inside Diameter (SCRDIAM): 2 in.  
 Screen Slot Size (SOUA): 0.020 in.  
 Percent Open Area (PCTOPEN): \_\_\_\_\_  
 Sump or Bottom Cap (Y / N)  
 Type/Length: PVC-4 inches

**Backfill Plug (Y / )**

Material: \_\_\_\_\_  
 Placement Method: \_\_\_\_\_  
 Set-up/Hydration Time: \_\_\_\_\_

**Total Water Volume During Construction**

Introduced (Gal): \_\_\_\_\_ Recovered (Gal): \_\_\_\_\_

**Reviewed**

By: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**TABLE X**  
**Summary of Groundwater Elevations**

Former PPG Industries  
 801 Valley Drive  
 Perry, Houston County, Georgia  
 HSI No. 10085



Responsive partner.  
 Exceptional outcomes.

Well Number	Date Measured	Top of Casing (TOC) Elevation (feet-NGVD)	Depth to Water Below TOC (feet)	Corrected Groundwater Elevation (feet-NGVD)	Total Depth (feet)	Time
MW-1B	7-23-19		30.98			1020
MW-16		554	33.33			1030
MW-8		46	27.52			1035
MW-10			30.79			1040
MW-5			15.72			1050
MW-1			13.31			1055
MW-19		BDL	34.88			1245
MW-2			16.93			1105
MW-14			20.65			1110
MW-11		129	23.81			1115
MW-20		BDL	24.02			1120
MW-16		261	24.10			1128
MW-3		BDL	22.97			1135
MW-15D		1520	24.41			1143
MW-4I		130	23.38			1145
MW-23		115	22.22			1150
MW-7		17,000	19.23			1157
MW-12		8,050	19.72			1200
MW-12D		7.2	19.86			1202
MW-21		2,400	19.62			1210
MW-21D		7.1	19.93			1206
MW-9S		BDL	19.05			1220
MW-9D		1.7	19.92			1218
MW-6		BDL	18.14			1225
MW-6DS		4.5	18.35			1228
MW-6D		13.0	17.93			1230
MW-13	✓	31,400	19.21			1240
MW-13D		542	19.16	Prepared by:		1242
MW-22		400,000	15.70	Checked by:		1235

NOTES:

- NGVD- National Geodetic Vertical Datum
- NM- Not Measured
- TOC- Top of Casing

DNS  
 16  
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 3  
 18  
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 17  
 23

Person {



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number:	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-3</u>	
Date: <u>7-24-18</u>	Start Time at Well: <u>0945</u>	End Time at Well: <u>1025</u>	
Sampler: <u>M. Ramirez</u>	Weather: <u>Cloudy, 80°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2"</u>	Well Screen Depth Interval: <u>11.9</u> (ft) to <u>26.9</u> (ft)	Initial Depth to Water (ft): <u>23.02</u>	Damage to well: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Total Well Depth (ft): <u>26.9</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>0.632</u>	3 Well Vol. (gal): <u>1.897</u>
Well Recharge is: very slow slow <u>moderate</u> <u>fast</u> <u>MP</u>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <u>2.0-gallons</u>	Well capped: <input checked="" type="checkbox"/> N <input type="checkbox"/> Well locked: <input checked="" type="checkbox"/> <input type="checkbox"/>
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88			

PURGING DATA

Initial Depth of Tubing (ft): <u>25'</u>	Final Depth of Tubing (ft): <u>25'</u>	Total Purge Time: <u>20 MINS</u>	Purge Equipment (circle one): Bailor Bladder Pump Electric Submersible Pump <u>Peristaltic Pump</u> Other (specify)						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>1000</u>	<u>0.5</u>	<u>23.92</u>	<u>21.80</u>	<u>4.78</u>	<u>0.071</u>	<u>5.52</u>	<u>1.56</u>	<u>clear</u>	<u>147.6</u>
<u>1005</u>	<u>1.0</u>	<u>24.41</u>	<u>21.77</u>	<u>4.74</u>	<u>0.070</u>	<u>5.47</u>	<u>1.04</u>	<u>clear</u>	<u>150.2</u>
<u>1010</u>	<u>1.5</u>	<u>24.98</u>	<u>21.79</u>	<u>4.71</u>	<u>0.070</u>	<u>5.36</u>	<u>1.30</u>	<u>clear</u>	<u>151.0</u>
<u>1015</u>	<u>2.0</u>	<u>25.85</u>	<u>21.80</u>	<u>4.70</u>	<u>0.071</u>	<u>5.27</u>	<u>3.05</u>	<u>clear</u>	<u>148.7</u>
Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)									

SAMPLING

Sampled by (print): <u>Mario Ramirez</u>		Collection Method (circle one): Bailor <u>straw method</u> Vacuum Jug Other			Time Sampling Initiated: <u>1020</u>	Time Sampling Completed: <u>1025</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-3</u>	<u>1020</u>	<u>3</u>	<u>40 ML</u>	<u>HCl-</u>	<u>VOCS-4260</u>	<u>G</u>
Notes:		Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled delonized solvent rinse: acetone hexane				



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>ROPER</b>		Project Number: <b>6572-0001</b>	
Location: <b>COMMERCE, GA</b>		Well ID: <b>MW-4I</b>	
Date: <b>7-24-18</b>	Start Time at Well: <b>1620</b>	End Time at Well: <b>1705</b>	
Sampler: <b>M. RAMIREZ</b>	Weather: <b>Mostly Cloudy 80°F</b>		Comments:

WELL CHARACTERISTICS

Well Diameter (in): <b>2"</b>	Well Screen Depth Interval: <b>30</b> (ft) to <b>40</b> (ft)	Initial Depth to Water (ft): <b>22.35</b>	Damage to well: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Total Well Depth (ft): <b>40'</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>2.88</b>	3 Well Vol. (gal): <b>8.64</b>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input checked="" type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <b>8.5 gallons</b>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>35'</b>	Final Depth of Tubing (ft): <b>35'</b>	Total Purge Time: <b>30 MIN</b>	Purge Equipment (circle one): <del>Bailer</del> <input checked="" type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (specify)						
Initial Purge Rate (gpm): <b>0.1</b>	Final Purge Rate (gpm): <b>0.1</b>	Purge Method (circle one): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Meter(s) used (circle one): <input checked="" type="checkbox"/> YSI 556 <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba US3						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1630	0.5	22.43	21.51	5.70	0.063	4.53	10.2	CLR/NO	77.2
1635	1.0	22.45	21.26	5.62	0.060	4.46	8.02	CLR/NO	81.4
1640	1.5	22.46	21.14	5.56	0.059	4.58	6.36	CLR/NO	86.5
1645	2.0	22.45	21.10	5.50	0.056	4.93	5.30	CLR/NO	91.6
1650	2.5	22.45	21.09	5.46	0.056	4.71	4.64	CLR/NO	94.7

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>M. RAMIREZ</b>		Collection Method (circle one): <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other			Time Sampling Initiated: <b>1655</b>	Time Sampling Completed: <b>1700</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<b>MW-4I</b>	<b>1655</b>	<b>3</b>	<b>40 ml</b>	<b>HCL</b>	<b>VOCs-8260</b>	<b>G-GRAB</b>
Notes:				Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled deionized solvent rinse: acetone hexane		





GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roger Pump</u>		Project Number: <u>B6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-6</u>	
Date: <u>7/24/18</u>	Start Time at Well: <u>10:40</u>	End Time at Well: <u>12:15</u>	
Sampler: <u>SEF</u>	Weather: <u>90s Overcast</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>9.2</u> (ft) to <u>24.2</u> (ft)	Initial Depth to Water (ft): <u>18.20</u>
Total Well Depth (ft): <u>24.00</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>0.94</u>
		3 Well Vol. (gal): <u>2.82</u>
		Total Vol. Purged (gal): <u>3.5L</u>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>21</u>	Final Depth of Tubing (ft): <u>21</u>	Total Purge Time: <u>44 min</u>	Purge Equipment (circle one): <u>Peristaltic Pump</u> <input type="checkbox"/> Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Other (specify)
Initial Purge Rate (gpm): <u>0.14/m</u>	Final Purge Rate (gpm): <u>0.14/m</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> <input type="checkbox"/> Micro-purge <input type="checkbox"/>	Meter(s) used (circle one): <u>YSI 556</u> <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53 <input type="checkbox"/>

11.1

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
11:16	0.5L	18.33	23.24	5.74	0.068	7.60	2.81	clr/no	220.9
11:21	1.0L	18.33	22.75	4.56	0.067	7.03	1.85	" "	284.6
11:26	1.5L	18.35	22.78	3.84	0.069	6.74	1.18	" "	327.8
11:31	2.0L	18.35	22.47	3.90	0.070	6.69	1.58	" "	330.9
11:36	2.5L	18.35	22.24	3.75	0.071	6.62	0.94	" "	350.9
11:41	3.0L	18.35	22.13	3.72	0.073	6.47	0.78	" "	371.3
11:46	3.5L	18.35	22.04	3.82	0.075	6.42	1.01	" "	378.7
11:50	S	a	m	p					

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>SEF</u>		Collection Method (circle one): <input type="checkbox"/> Bailer <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other			Time Sampling Initiated: <u>1150</u>	Time Sampling Completed: <u>1155</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-6</u>	<u>1150</u>	<u>3</u>	<u>40mL</u>	<u>HCL</u>	<u>VOC</u>	<u>G</u>

Notes:



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>ROPER</b>		Project Number:	
Location: <b>COMMERCE, GA</b>		Well ID: <b>MW-6D</b>	
Date: <b>7-24-18</b>	Start Time at Well: <b>1425</b>	End Time at Well: <b>1545</b>	
Sampler: <b>U. RAMIREZ</b>	Weather: <b>SUNNY 78°F</b>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <b>2"</b>	Well Screen Depth Interval: <b>33</b> (ft) to <b>43</b> (ft)	Initial Depth to Water (ft): <b>18.18</b>	Damage to well: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Total Well Depth (ft): <b>43'</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>4.05</b>	3 Well Vol. (gal): <b>12.15</b>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input checked="" type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <b>2.5</b>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>38</b>	Final Depth of Tubing (ft): <b>38</b>	Total Purge Time: <b>30 min</b>	Purge Equipment (circle one): Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> <b>Peristaltic Pump</b> <input checked="" type="checkbox"/> Other (specify):	
Initial Purge Rate (gpm): <b>0.1</b>	Final Purge Rate (gpm): <b>0.1</b>	Purge Method (circle one): <b>Low Flow-Low Stress</b> <input checked="" type="checkbox"/> Micro-purge <input type="checkbox"/>	Meter(s) used (circle one): <b>YSI 556</b> <input checked="" type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53 <input type="checkbox"/>	

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
1510	0.5	19.40	21.54	6.53	0.204	0.42	11.9	CLP/SLT/002	-158.7
1515	1.0	19.61	21.52	6.43	0.235	0.33	9.42	CLP/SLT/002	-149.0
1520	1.5	19.77	21.49	6.46	0.260	0.32	8.16	CLP/SLT/002	-181.0
1525	2.0	20.00	21.23	6.49	0.258	0.28	6.31	CLP/SLT/002	-193.1
1530	2.5	20.23	21.20	6.50	0.256	0.26	6.53	CLP/SLT/002	-192.3

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>U. RAMIREZ</b>		Collection Method (circle one): Bailer <input checked="" type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other <input type="checkbox"/>			Time Sampling Initiated: <b>1535</b>	Time Sampling Completed: <b>1540</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<b>MW-6D</b>	<b>1535</b>	<b>3</b>	<b>40ml</b>	<b>HCL</b>	<b>VOCs - 8260</b>	<b>G-GRAB</b>

Notes: **Break for rain/lightning from 1435 to 1505**

Equipment Cleaning Procedures:  
 potable water and phosphate-free soap  
 potable-water rinse  
 water rinse: distilled      deionized  
 solvent rinse: acetone      hexane



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>Ropes Pump</b>		Project Number: <b>B6572</b>	
Location: <b>Commerce, GA</b>		Well ID: <b>NW-605</b>	
Date: <b>7/24/18</b>	Start Time at Well: <b>1650</b>	End Time at Well: <b>1855</b>	
Sampler: <b>SEF</b>	Weather: <b>clear 90s</b>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <b>2</b>	Well Screen Depth Interval: <b>61</b> (ft) to <b>66</b> (ft)	Initial Depth to Water (ft): <b>18.71</b>
Total Well Depth (ft): <b>66.45</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>7.78</b>
		3 Well Vol. (gal): <b>23.34</b>
		Total Vol. Purged (gal): <b>7.3L</b>
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88		

PURGING DATA

Initial Depth of Tubing (ft): <b>63.5</b>	Final Depth of Tubing (ft): <b>63.5</b>	Total Purge Time: <b>76 min</b>	Purge Equipment (circle one): <input checked="" type="radio"/> <b>Peristaltic Pump</b> <input type="radio"/> Bladder Pump <input type="radio"/> Electric Submersible Pump <input type="radio"/> Other (specify)
Initial Purge Rate (gpm): <b>0.14/m</b>	Final Purge Rate (gpm): <b>0.14/m</b>	Purge Method (circle one): <input checked="" type="radio"/> <b>Low Flow-Low Stress</b> <input type="radio"/> Micro-purge	Meter(s) used (circle one): <input checked="" type="radio"/> <b>YSI 556</b> <input type="radio"/> Lamotte 2020 <input type="radio"/> Horiba U53

1713

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1727	0.8L	20.21	23.59	6.77	0.168	2.14	74.2	FT/NO	225.1
1732	1.3L	20.34	23.24	6.65	0.158	2.55	69.1	" "	206.4
1737	1.8L	20.30	22.89	6.48	0.140	3.01	172	" "	202.6
1742	2.3L	20.21	22.97	5.38	0.125	3.44	235	" "	258.1
1747	2.8L	20.18	23.09	5.91	0.111	3.79	106	" "	221.7
1752	3.3L	20.15	23.01	6.10	0.101	4.04	29.3	" "	205.2
1757	3.8L	20.07	23.00	6.15	0.093	4.25	13.9	" "	195.6
1802	4.3L	20.07	23.17	6.17	0.090	4.15	10.3	" "	194.2
1807	4.8L	20.05	22.95	6.14	0.084	4.07	12.2	" "	197.5
1812	5.3L	19.98	22.95	6.14	0.080	4.12	11.4	" "	199.1
1817	5.8L	20.01	22.78	6.14	0.078	4.29	13.5	" "	201.4

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>SEF</b>		Collection Method (circle one): <input type="radio"/> Baller <input type="radio"/> Straw method <input type="radio"/> Vacuum Jug <input type="radio"/> Other			Time Sampling Initiated: <b>1835</b>	Time Sampling Completed: <b>1840</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
MW-605	1835	3	40ml	HCL	VOC	G

Notes:

17:16: Purged water directly into bucket. Was extremely turbid and sand filled flow-through cell. Empty and flush FTC. Resume purging at 0.1 L/m at 17:22 (~0.3L)



**GROUNDWATER SAMPLING LOG**

Responsive partner. Exceptional outcomes.

Project: <u>Roper Pump</u>		Project Number: <u>B6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-6DS</u>	
Date: <u>7/24/18</u>	Start Time at Well: <u>1650</u>	End Time at Well:	
Sampler: <u>SEF</u>	Weather: <u>Clear 90s</u>	Comments:	

**WELL CHARACTERISTICS**

Well Diameter (In):	Well Screen Depth Interval: _____ (ft) to _____ (ft)	Initial Depth to Water (ft):
Total Well Depth (ft):	Well Capacity (gallons per foot):	1 Well Volume (gallons):
		3 Well Vol. (gal):
		Total Vol. Purged (gal):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**PURGING DATA**

Initial Depth of Tubing (ft):	Final Depth of Tubing (ft):	Total Purge Time:	Purge Equipment (circle one): Bailer Bladder Pump Electric Submersible Pump Peristaltic Pump Other (specify) _____						
Initial Purge Rate (gpm):	Final Purge Rate (gpm):	Purge Method (circle one): Low Flow-Low Stress Micro-purge	Meter(s) used (circle one): YSI 556 Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1822	6.3L	20.05	22.50	5.85	0.073	4.36	27.9	Clr/no	223.7
1827	6.8L	20.05	22.34	5.80	0.071	4.45	14.2	" "	229.9
1832	7.3L	20.05	22.34	5.90	0.070	4.49	7.11	" "	223.5
1835	5	a	m	p	l	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

**SAMPLING**

Sampled by (print):		Collection Method (circle one): Bailer Straw method Vacuum Jug Other			Time Sampling Initiated:	Time Sampling Completed:
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))

Notes:



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number: <u>6572-0001</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-7</u>	
Date: <u>7-25-18</u>	Start Time at Well: <u>1500</u>	End Time at Well: <u>1555</u>	
Sampler: <u>McP</u>	Weather: <u>SUNNY, 85°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2"</u>	Well Screen Depth Interval: <u>9.4</u> (ft) to <u>24.4</u> (ft)	Initial Depth to Water (ft): <u>19.23</u>	Damage to well: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Total Well Depth (ft): <u>24.4</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>0.452</u>	3 Well Vol. (gal): <u>1.35</u>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input type="checkbox"/> <u>fast</u> <input checked="" type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	Total Vol. Purged (gal): <u>3.0 gallons</u>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>22'</u>	Final Depth of Tubing (ft): <u>22'</u>	Total Purge Time: <u>30 mins</u>	Purge Equipment (circle one): <u>Bailer</u> Bladder Pump Electric Submersible Pump <u>Peristaltic Pump</u> Other (specify)						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>1520</u>	<u>0.5</u>	<u>19.35</u>	<u>22.09</u>	<u>5.11</u>	<u>0.1002</u>	<u>3.58</u>	<u>3.31</u>	<u>clear</u>	<u>173.5</u>
<u>1525</u>	<u>1.0</u>	<u>19.35</u>	<u>21.83</u>	<u>5.80</u>	<u>0.102</u>	<u>3.45</u>	<u>1.22</u>	<u>clear</u>	<u>165.4</u>
<u>1530</u>	<u>1.5</u>	<u>19.35</u>	<u>21.71</u>	<u>5.03</u>	<u>0.101</u>	<u>3.25</u>	<u>1.23</u>	<u>clear</u>	<u>181.2</u>
<u>1535</u>	<u>2.0</u>	<u>19.35</u>	<u>21.62</u>	<u>5.00</u>	<u>0.100</u>	<u>3.10</u>	<u>0.53</u>	<u>clear</u>	<u>188.0</u>
<u>1540</u>	<u>2.5</u>	<u>19.35</u>	<u>21.60</u>	<u>4.98</u>	<u>0.099</u>	<u>2.95</u>	<u>0.81</u>	<u>clear</u>	<u>189.1</u>
<u>1545</u>	<u>3.0</u>	<u>19.35</u>	<u>21.56</u>	<u>4.97</u>	<u>0.098</u>	<u>2.92</u>	<u>0.80</u>	<u>clear</u>	<u>187.2</u>

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>Mark Padgett</u>		Collection Method (circle one): <u>straw method</u> Vacuum Jug Other			Time Sampling Initiated: <u>1550</u>	Time Sampling Completed: <u>1555</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-7</u>	<u>1550</u>	<u>3</u>	<u>40 ml</u>	<u>HCl</u>	<u>VOCS-8260</u>	<u>G</u>

Notes:

Equipment Cleaning Procedures:  
 potable water and phosphate-free soap  
 potable-water rinse  
 water rinse: distilled delonized  
 solvent rinse: acetone hexane



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number: <u>6572-0001</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-8</u>	
Date: <u>7-25-13</u>	Start Time at Well: <u>0725</u>	End Time at Well: <u>0920</u>	
Sampler: <u>M. Padgett</u>	Weather: <u>SUNNY, 75°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2"</u>	Well Screen Depth Interval: <u>24.5</u> (ft) to <u>34.5</u> (ft)	Initial Depth to Water (ft): <u>27.43</u>	Damage to well: Y <input checked="" type="checkbox"/>
Total Well Depth (ft): <u>34.5'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>1.15</u>	3 Well Vol. (gal): <u>3.45</u>
Well Recharge is: very slow slow <u>moderate</u> fast	Bailed dry: Y <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <u>3.0 - gallons</u>	Well capped: <input checked="" type="checkbox"/> N Well locked: <input checked="" type="checkbox"/> N
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88			

PURGING DATA

Initial Depth of Tubing (ft): <u>MP 29'30"</u>	Final Depth of Tubing (ft): <u>MP 29'30"</u>	Total Purge Time:	Purge Equipment (circle one): Bailer <input checked="" type="checkbox"/> Bladder Pump <input checked="" type="checkbox"/> Electric Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Other (specify):						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>0745</u>	<u>0.5</u>	<u>27.81</u>	<u>20.59</u>	<u>5.05</u>	<u>0.046</u>	<u>5.82</u>	<u>2.44</u>	<u>clear</u>	<u>125.8</u>
<u>0750</u>	<u>1.0</u>	<u>28.02</u>	<u>20.26</u>	<u>4.83</u>	<u>0.045</u>	<u>4.50</u>	<u>0.65</u>	<u>clear</u>	<u>152.4</u>
<u>0755</u>	<u>1.5</u>	<u>28.12</u>	<u>20.21</u>	<u>4.73</u>	<u>0.044</u>	<u>4.12</u>	<u>0.36</u>	<u>clear</u>	<u>161.6</u>
<u>0800</u>	<u>2.0</u>	<u>28.21</u>	<u>20.19</u>	<u>4.75</u>	<u>0.044</u>	<u>3.74</u>	<u>0.33</u>	<u>clear</u>	<u>166.8</u>
<u>0805</u>	<u>2.5</u>	<u>28.25</u>	<u>20.17</u>	<u>4.72</u>	<u>0.043</u>	<u>3.60</u>	<u>0.24</u>	<u>clear</u>	<u>170.1</u>
<u>0810</u>	<u>3.0</u>	<u>28.31</u>	<u>20.17</u>	<u>4.70</u>	<u>0.043</u>	<u>3.66</u>	<u>0.17</u>	<u>clear</u>	<u>173.1</u>
Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)									

SAMPLING

Sampled by (print): <u>Mark Padgett</u>		Collection Method (circle one): Bailer <input checked="" type="checkbox"/> <u>straw method</u> Vacuum Jug Other			Time Sampling Initiated: <u>0815</u>	Time Sampling Completed: <u>0920</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-8</u>	<u>0815</u>	<u>3</u>	<u>40 ml</u>	<u>HCl-</u>	<u>VolS-8260</u>	<u>G</u>
Notes:				Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled delionized solvent rinse acetone hexane		



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>Ropes Pump</b>	Project Number: <b>B6572</b>	
Location: <b>Commerce, GA</b>	Well ID: <b>MW-93</b>	
Date: <b>7/24/18</b>	Start Time at Well: <b>12:20</b>	End Time at Well: <b>14:10</b>
Sampler: <b>SEF</b>	Weather: <b>Overcast 90s</b>	Comments:

WELL CHARACTERISTICS

Well Diameter (in): <b>2</b>	Well Screen Depth Interval: <b>16</b> (ft) to <b>26</b> (ft)	Initial Depth to Water (ft): <b>19.10</b>
Total Well Depth (ft): <b>25.15</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>0.99</b>
		3 Well Vol. (gal): <b>2.97</b>
		Total Vol. Purged (gal): <b>10.0L</b>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>23</b>	Final Depth of Tubing (ft): <b>23</b>	Total Purge Time: <b>60 min</b>	Purge Equipment (circle one): <b>Boiler</b> Bladder Pump Electric Submersible Pump Peristaltic Pump Other (specify)
Initial Purge Rate (gpm): <b>0.24/m</b>	Final Purge Rate (gpm): <b>0.24/m</b>	Purge Method (circle one): <b>Low Flow-Low Stress</b> Micro-purge	Meter(s) used (circle one): <b>YSI 556</b> Lamotte 2020 Horiba U53

12:40

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
12:45	1.0L	19.15	21.83	5.60	0.146	2.35	00R	blk/no	290.2
12:50	2.0L	19.15	21.10	4.23	0.133	2.56	00R	" "	373.8
12:55	3.0L	19.15	20.98	4.34	0.131	2.87	108	slt grey/no	369.3
13:00	4.0L	19.15	20.94	4.78	0.129	2.80	25.7	" "	342.0
13:05	5.0L	19.15	20.85	5.05	0.128	2.70	19.0	dk/no	322.4
13:10	6.0L	19.15	21.02	5.36	0.127	2.66	7.05	" "	286.1
13:15	7.0L	19.15	21.10	5.61	0.126	2.60	5.05	" "	268.1
13:20	8.0L	19.15	21.10	5.73	0.124	2.65	6.62	" "	232.5
13:25	9.0L	19.17	21.03	5.76	0.124	2.67	4.82	" "	242.3
13:30	10.0L	19.17	20.93	5.75	0.123	2.84	4.89	" "	243.1
13:35	S	a	m	p	l	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>SEF</b>	Collection Method (circle one): <b>Baller</b> Straw method Vacuum Jug Other	Time Sampling/Initiated: <b>13:35</b>	Time Sampling/Completed: <b>13:40</b>			
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
MW-93	13:35	3	40ml	HCL	VOC	G

Notes:  
 Water is black from BAM. Try to flush with increased purge rate of 0.24/m.



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>Roper Pump</b>	Project Number: <b>B6572</b>	
Location: <b>Commerce, GA</b>	Well ID: <b>MW-9D</b>	
Date: <b>7/24/18</b>	Start Time at Well: <b>1420</b>	End Time at Well: <b>1645</b>
Sampler: <b>SEF</b>	Weather: <b>Rain 90s</b>	Comments:

WELL CHARACTERISTICS

Well Diameter (in): <b>2</b>	Well Screen Depth Interval: <b>63.5</b> (ft) to <b>68.5</b> (ft)	Initial Depth to Water (ft): <b>19.37</b>
Total Well Depth (ft): <b>67.60</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>7.86</b>
		3 Well Vol. (gal): <b>23.58</b>
		Total Vol. Purged (gal): <b>5.5L</b>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>66</b>	Final Depth of Tubing (ft): <b>66</b>	Total Purge Time: <b>66 min</b>	Purge Equipment (circle one): <input checked="" type="checkbox"/> Baller Bladder Pump Electric Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other (specify)
Initial Purge Rate (gpm): <b>0.14/m</b>	Final Purge Rate (gpm): <b>0.14/m</b>	Purge Method (circle one): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Meter(s) used (circle one): <input checked="" type="checkbox"/> YSI 556 <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53

1509

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1514	0.5L	20.12	21.73	8.92	0.115	4.61	33.5	SH 9/10	174.5
1819	1.0L	20.14	21.69	7.78	0.119	3.46	33.2	" "	237.4
1524	1.5L	20.07	21.72	7.98	0.118	3.93	26.2	" "	224.2
1529	2.0L	20.10	21.77	8.44	0.119	3.71	23.0	" "	196.5
1534	2.5L	20.10	21.63	8.88	0.120	3.63	16.4	dr/no	165.8
1539	3.0L	20.10	21.52	9.13	0.116	3.56	10.9	" "	147.7
1544	3.5L	20.10	21.44	9.17	0.111	3.53	10.5	" "	144.3
1549	4.0L	20.12	21.34	9.10	0.103	3.82	8.80	" "	142.2
1554	4.5L	20.12	21.37	9.16	0.101	3.60	8.97	" "	133.6
1559	5.0L	20.12	21.36	9.21	0.098	3.75	7.96	" "	127.9
1604	5.5L	20.12	21.36	9.21	0.096	3.80	7.51	" "	123.8

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>SEF</b>	Collection Method (circle one): <input type="checkbox"/> Baller <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other	Time Sampling Initiated: <b>1610</b>	Time Sampling Completed: <b>1615</b>
Sample ID: <b>MW-9D</b>	Sample Time: <b>1610</b>	Number of Containers: <b>3</b>	Volume: <b>40ml</b>
		Preservative: <b>HCL</b>	Analysis/ EPA Method: <b>VOC</b>
			Sample Type (G - Grab, C - Composite, Other (specify)): <b>G</b>

Notes:





GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number: <u>6572-0001</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-11</u>	
Date: <u>7-25-18</u>	Start Time at Well: <u>0945</u>	End Time at Well: <u>0950</u>	
Sampler: <u>M. Padgett</u>	Weather: <u>Sunny, 80°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>24</u>	Well Screen Depth Interval: <u>24</u> (ft) to <u>34</u> (ft)	Initial Depth to Water (ft): <u>23.85</u>	Damage to well: Y <input checked="" type="radio"/> N <input type="radio"/>
Total Well Depth (ft): <u>34'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>1.65</u>	3 Well Vol. (gal): <u>4.96</u>
Well Recharge is: very slow <input type="radio"/> slow <input type="radio"/> moderate <input checked="" type="radio"/> fast <input type="radio"/>	Bailed dry: Y <input type="radio"/> N <input checked="" type="radio"/>	Total Vol. Purged (gal): <u>3.0 - gallons</u>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>29'</u>	Final Depth of Tubing (ft): <u>29'</u>	Total Purge Time: <u>30 MINS</u>	Purge Equipment (circle one): Bailer <input type="radio"/> Bladder Pump <input type="radio"/> Electric Submersible Pump <input checked="" type="radio"/> Peristaltic Pump <input type="radio"/> Other (specify) _____						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <input checked="" type="radio"/> Low Flow-Low Stress <input type="radio"/> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>0915</u>	<u>0.5</u>	<u>23.98</u>	<u>23.02</u>	<u>5.42</u>	<u>0.077</u>	<u>4.02</u>	<u>0.98</u>	<u>clear</u>	<u>110.6</u>
<u>0920</u>	<u>1.0</u>	<u>24.08</u>	<u>22.57</u>	<u>5.15</u>	<u>0.073</u>	<u>2.60</u>	<u>0.88</u>	<u>clear</u>	<u>114.4</u>
<u>0925</u>	<u>1.5</u>	<u>24.10</u>	<u>22.65</u>	<u>5.05</u>	<u>0.072</u>	<u>2.12</u>	<u>0.99</u>	<u>clear</u>	<u>120.8</u>
<u>0930</u>	<u>2.0</u>	<u>24.08</u>	<u>22.93</u>	<u>5.02</u>	<u>0.072</u>	<u>1.87</u>	<u>0.63</u>	<u>clear</u>	<u>124.1</u>
<u>0935</u>	<u>2.5</u>	<u>24.08</u>	<u>22.85</u>	<u>4.98</u>	<u>0.072</u>	<u>1.88</u>	<u>0.47</u>	<u>clear</u>	<u>131.3</u>
<u>0940</u>	<u>3.0</u>	<u>24.08</u>	<u>22.85</u>	<u>4.97</u>	<u>0.072</u>	<u>1.79</u>	<u>0.28</u>	<u>clear</u>	<u>130.9</u>

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>Mark Padgett</u>		Collection Method (circle one): Bailer <input type="radio"/> <u>Straw method</u> <input checked="" type="radio"/> Vacuum Jug <input type="radio"/> Other <input type="radio"/>			Time Sampling Initiated: <u>0945</u>	Time Sampling Completed: <u>0950</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-11</u>	<u>0945</u>	<u>3</u>	<u>40 ml</u>	<u>HCl</u>	<u>VOCS-8260</u>	<u>G</u>
Notes:				Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled      deionized solvent rinse: acetone      hexane		



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>ROOOF PUMP</u>		Project Number: <u>R6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-12</u>	
Date: <u>7/25/18</u>	Start Time at Well: <u>1425</u>	End Time at Well: <u>1615</u>	
Sampler: <u>SEF</u>	Weather: <u>Clear 90s-100</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>35</u> (ft) to <u>45</u> (ft)	Initial Depth to Water (ft): <u>19.41</u>
Total Well Depth (ft): <u>45</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>4.17</u>
		3 Well Vol. (gal): <u>12.51</u>
		Total Vol. Purged (gal): <u>4.0L</u>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>40</u>	Final Depth of Tubing (ft): <u>40</u>	Total Purge Time: <u>50min</u>	Purge Equipment (circle one): <u>Peristaltic Pump</u> Bladder Pump Electric Submersible Pump Other (specify)
Initial Purge Rate (gpm): <u>0.14/m</u>	Final Purge Rate (gpm): <u>0.14/m</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53

1450

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>1455</u>	<u>0.5L</u>	<u>19.62</u>	<u>24.15</u>	<u>5.76</u>	<u>0.382</u>	<u>2.01</u>	<u>12.2</u>	<u>clr/yes</u>	<u>21.4</u>
<u>1500</u>	<u>1.0L</u>	<u>19.65</u>	<u>25.36</u>	<u>5.56</u>	<u>0.388</u>	<u>1.21</u>	<u>11.7</u>	<u>" "</u>	<u>14.5</u>
<u>1505</u>	<u>1.5L</u>	<u>19.68</u>	<u>24.38</u>	<u>5.60</u>	<u>0.389</u>	<u>1.16</u>	<u>10.8</u>	<u>" "</u>	<u>12.2</u>
<u>1510</u>	<u>2.0L</u>	<u>19.72</u>	<u>25.41</u>	<u>5.61</u>	<u>0.389</u>	<u>1.18</u>	<u>10.2</u>	<u>" "</u>	<u>11.2</u>
<u>1515</u>	<u>2.5L</u>	<u>19.75</u>	<u>24.67</u>	<u>5.64</u>	<u>0.383</u>	<u>1.23</u>	<u>9.19</u>	<u>" "</u>	<u>3.2</u>
<u>1520</u>	<u>3.0L</u>	<u>19.75</u>	<u>24.05</u>	<u>5.61</u>	<u>0.374</u>	<u>1.11</u>	<u>7.73</u>	<u>" "</u>	<u>-0.9</u>
<u>1525</u>	<u>3.5L</u>	<u>19.77</u>	<u>23.94</u>	<u>5.64</u>	<u>0.373</u>	<u>1.06</u>	<u>5.50</u>	<u>" "</u>	<u>-4.3</u>
<u>1530</u>	<u>4.0L</u>	<u>19.80</u>	<u>23.25</u>	<u>5.61</u>	<u>0.360</u>	<u>1.04</u>	<u>5.94</u>	<u>" "</u>	<u>-7.5</u>
<u>1535</u>	<u>S</u>	<u>α</u>	<u>μ</u>	<u>p</u>	<u>l</u>	<u>e</u>			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>SEF</u>		Collection Method (circle one): <u>Baller</u> Straw method Vacuum Jug Other			Time Sampling Initiated: <u>1535</u>	Time Sampling Completed: <u>1540</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-12</u>	<u>1535</u>	<u>3</u>	<u>40ml</u>	<u>HCl</u>	<u>VOC</u>	<u>G</u>

Notes:

Water has sour smell



**GROUNDWATER SAMPLING LOG**

Responsive partner. Exceptional outcomes.

Project: <b>ROPER</b>		Project Number:	
Location: <b>COMMERCE, GA</b>		Well ID: <b>12D MW-12D</b>	
Date: <b>7-24-18</b>	Start Time at Well: <b>1200</b>	End Time at Well: <b>1310</b>	
Sampler: <b>M. RAMIREZ</b>	Weather: <b>SUNNY 80°F</b>	Comments:	

**WELL CHARACTERISTICS**

Well Diameter (in): <b>2"</b>	Well Screen Depth Interval: <b>81.5</b> (ft) to <b>86.5</b> (ft)	Initial Depth to Water (ft): <b>19.67</b>	Damage to well: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Total Well Depth (ft): <b>86.5'</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>10.89</b>	3 Well Vol. (gal): <b>32.67</b>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input checked="" type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <b>5.5-gallons</b>	Well capped: <input checked="" type="checkbox"/> N Well locked: <input checked="" type="checkbox"/> N
Ferrous Iron (mg/L):			

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

**PURGING DATA**

Initial Depth of Tubing (ft): <b>84'</b>	Final Depth of Tubing (ft): <b>84'</b>	Total Purge Time:	Purge Equipment (circle one): <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Other (specify)
Initial Purge Rate (gpm): <b>0.1</b>	Final Purge Rate (gpm): <b>0.1</b>	Purge Method (circle one): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Meter(s) used (circle one): <input checked="" type="checkbox"/> YSI 556 <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
1210	0.5	20.42	21.11	8.70	0.083	6.31	4.81	CLR/NO	-17.2
1215	1.0	20.40	21.09	8.81	0.083	5.92	4.15	CLR/NO	-20.8
1220	1.5	20.45	20.91	8.86	0.080	5.91	4.40	CLR/NO	-19.8
1225	2.0	20.49	20.76	8.80	0.075	6.02	7.59	CLR/NO	-14.8
1230	2.5	20.50	20.74	8.61	0.070	5.92	15.7	CLR/NO	-3.8
1235	3.0	20.48	20.78	8.40	0.067	5.96	28.3	CLR/NO	7.0
1240	3.5	20.48	20.82	8.16	0.065	5.90	31.4	CLR/NO	12.5
1245	4.0	20.48	20.79	7.98	0.064	6.11	35.0	CLR/NO	15.0
1250	4.5	20.50	20.74	7.83	0.063	6.24	36.3	CLR/NO	19.8
1255	5.0	20.52	20.75	7.74	0.063	6.13	32.2	CLR/NO	22.8
1300	5.5	20.52	20.67	7.69	0.063	6.14	29.6	CLR/NO	24.0

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

**SAMPLING**

Sampled by (print): <b>UAR</b>		Collection Method (circle one): <input checked="" type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other			Time Sampling Initiated: <b>1305</b>	Time Sampling Completed: <b>1310</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<b>MW-12D</b>	<b>1305</b>	<b>3</b>	<b>40mL</b>	<b>HCL</b>	<b>VOCs-8260</b>	<b>G-Grab</b>

Notes:

Equipment Cleaning Procedures:

- potable water and phosphate-free soap
- potable-water rinse
- water rinse: distilled      deionized
- solvent rinse: acetone      hexane





GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>Roper Pump</b>		Project Number: <b>B6572</b>
Location: <b>Commerce, GA</b>		Well ID: <b>MW-13D</b>
Date: <b>7/25/18</b>	Start Time at Well: <b>1225</b>	End Time at Well: <b>1415</b>
Sampler: <b>SEF</b>	Weather: <b>Clear 90s-100</b>	Comments:

WELL CHARACTERISTICS

Well Diameter (in): <b>2</b>	Well Screen Depth Interval: <b>64</b> (ft) to <b>69</b> (ft)	Initial Depth to Water (ft): <b>19.45</b>
Total Well Depth (ft): <b>68.32</b> <b>69</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>7.96</b>
		3 Well Vol. (gal): <b>23.88</b>
		Total Vol. Purged (gal): <b>3.5L</b>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>66.0</b>	Final Depth of Tubing (ft): <b>66.0</b>	Total Purge Time: <b>49 min</b>	Purge Equipment (circle one): <input checked="" type="checkbox"/> Peristaltic Pump
Initial Purge Rate (gpm): <b>0.14/m</b>	Final Purge Rate (gpm): <b>0.14/m</b>	Purge Method (circle one): <input checked="" type="checkbox"/> Low Flow-Low Stress	Meter(s) used (circle one): <input checked="" type="checkbox"/> YSI 556

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Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1259	0.5L	19.45	22.24	6.32	0.049	7.42	15.9	clr/no	136.8
1304	1.0L	19.54	22.21	5.72	0.052	4.44	11.7	" "	183.9
1309	1.5L	19.48	21.69	5.14	0.048	4.18	6.23	" "	222.6
1314	2.0L	19.49	21.63	5.24	0.047	4.24	3.28	" "	220.8
1319	2.5L	19.50	21.51	5.26	0.046	4.32	2.45	" "	222.3
1324	3.0L	19.83	21.38	5.23	0.046	4.26	1.60	" "	224.3
1329	3.5L	19.53	21.38	5.32	0.046	4.31	1.00	" "	222.4
1335	5	a	m	p	l	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>SEF</b>	Collection Method (circle one): <input checked="" type="checkbox"/> Baller	Time Sampling Initiated: <b>1335</b>	Time Sampling Completed: <b>1345</b>			
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
MW-13D	1335	3	40ml	HCL	VOC	G
DUP-1	1	3	40ml	HCL	VOC	G

Notes:



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>ROPER</b>	Project Number: <b>6572-0001</b>	
Location: <b>COMMERCE, GA</b>	Well ID: <b>MW-15D</b>	
Date: <b>7-25-18</b>	Start Time at Well: <b>1115</b>	End Time at Well: <b>1220</b>
Sampler: <b>M. PADGETT</b>	Weather: <b>SUNNY 80°F</b>	Comments:

WELL CHARACTERISTICS

Well Diameter (in): <b>2"</b>	Well Screen Depth Interval: <b>74'</b> (ft) to <b>84'</b> (ft)	Initial Depth to Water (ft): <b>22.51</b>	Damage to well: Y <input checked="" type="radio"/> N <input type="radio"/>
Total Well Depth (ft): <b>84'</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>10.02</b>	3 Well Vol. (gal): <b>30.06</b>
Well Recharge is: very slow slow <input checked="" type="radio"/> moderate fast	Bailed dry: Y <input type="radio"/> N <input checked="" type="radio"/> NA	Total Vol. Purged (gal): <b>3.0-gallons</b>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <b>79'</b>	Final Depth of Tubing (ft): <b>79'</b>	Total Purge Time: <b>30 MINS</b>	Purge Equipment (circle one): Bailer Bladder Pump Electric Submersible Pump <input checked="" type="radio"/> Peristaltic Pump Other (specify)						
Initial Purge Rate (gpm): <b>0.1</b>	Final Purge Rate (gpm): <b>0.1</b>	Purge Method (circle one): <input checked="" type="radio"/> Low Flow-Low Stress Micro-purge	Meter(s) used (circle one): <input checked="" type="radio"/> YSI 556 Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
1145	0.5	23.31	21.16	6.34	0.051	4.94	4.99	Clear	68.8
1150	1.0	23.52	20.94	6.36	0.050	4.29	3.42	Clear	66.7
1155	1.5	24.03	20.72	6.38	0.049	3.82	4.20	Clear	56.8
1200	2.0	24.05	20.87	6.38	0.049	3.69	3.24	Clear	57.6
1205	2.5	24.05	20.60	6.40	0.049	3.55	3.10	Clear	58.7
1210	3.0	24.07	20.68	6.39	0.049	3.60	2.31	Clear	60.1

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <b>Mark Padgett</b>		Collection Method (circle one): Bailer <input checked="" type="radio"/> Straw method Vacuum Jug Other			Time Sampling Initiated: <b>1215</b>	Time Sampling Completed: <b>1220</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<b>MW-15D</b>	<b>1215</b>	<b>3</b>	<b>40 ml</b>	<b>HCl-</b>	<b>VOCS-9260</b>	<b>G</b>
Notes:				Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled deionized solvent rinse: acetone hexane		



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Proper Pump</u>		Project Number: <u>B6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-16</u>	
Date: <u>7/25/18</u>	Start Time at Well: <u>720</u>	End Time at Well: <u>930</u>	
Sampler: <u>SEF</u>	Weather: <u>Clear 80s</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>25</u> (ft) to <u>35</u> (ft)	Initial Depth to Water (ft): <u>24.15</u>
Total Well Depth (ft): <u>35.11</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>1.78</u>
		3 Well Vol. (gal): <u>5.34</u>
		Total Vol. Purged (gal): <u>5.0L</u>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>30</u>	Final Depth of Tubing (ft): <u>30</u>	Total Purge Time: <u>60 min</u>	Purge Equipment (circle one): <u>Peristaltic Pump</u> <input type="checkbox"/> Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Other (specify):
Initial Purge Rate (gpm): <u>0.14/m</u>	Final Purge Rate (gpm): <u>0.14/m</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> <input type="checkbox"/> Micro-purge <input type="checkbox"/>	Meter(s) used (circle one): <u>YSI 556</u> <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53 <input type="checkbox"/>

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Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
814	0.5L	24.27	21.71	4.70	0.073	3.35	24.3	cls/no	271.1
819	1.0L	24.25	21.62	3.27	0.069	2.61	28.0	" "	350.3
824	1.5L	24.25	21.72	3.20	0.066	2.43	23.9	" "	340.2
829	2.0L	24.26	21.73	3.77	0.065	2.29	17.2	" "	316.4
834	2.5L	24.26	21.75	3.98	0.065	2.28	14.2	" "	307.7
839	3.0L	24.26	21.79	4.36	0.064	2.30	13.4	" "	291.2
844	3.5L	24.26	21.76	4.44	0.065	2.70	11.5	" "	289.0
849	4.0L	24.26	21.75	4.46	0.064	2.76	9.80	" "	287.7
854	4.5L	24.26	21.77	4.54	0.065	2.70	8.45	" "	288.6
859	5.0L	24.26	21.80	4.56	0.064	2.66	8.65	" "	288.3
905	5	a	m	p	l	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>SEF</u>	Collection Method (circle one): <u>Bailer</u> <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other <input type="checkbox"/>	Time Sampling Initiated: <u>9:05</u>	Time Sampling Completed: <u>9:10</u>
Sample ID: <u>MW-16</u>	Sample Time: <u>9:05</u>	Number of Containers: <u>3</u>	Volume: <u>90ml</u>
		Preservative: <u>HCL</u>	Analysis/EPA Method: <u>VOC</u>
			Sample Type (G - Grab, C - Composite, Other (specify)): <u>G</u>

Notes:



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <b>POPER</b>		Project Number: <b>6572-0001</b>	
Location: <b>COMMERCE, GA</b>		Well ID: <b>MW-17</b>	
Date: <b>7-25-18</b>	Start Time at Well: <b>1015</b>	End Time at Well: <b>1105</b>	
Sampler: <b>M. PADGETT</b>	Weather: <b>SUNNY 80°F</b>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <b>2"</b>	Well Screen Depth Interval: <b>30</b> (ft) to <b>40</b> (ft)	Initial Depth to Water (ft): <b>33.33'</b>	Damage to well: Y <input checked="" type="radio"/> N <input type="radio"/>
Total Well Depth (ft): <b>40</b>	Well Capacity (gallons per foot): <b>0.163</b>	1 Well Volume (gallons): <b>1.09</b>	3 Well Vol. (gal): <b>3.26</b>
Well Recharge is: very slow <input type="radio"/> slow <input type="radio"/> moderate <input checked="" type="radio"/>	Bailed dry: Y <input type="radio"/> N <input checked="" type="radio"/> NA	Total Vol. Purged (gal): <b>3.0-gallons</b>	Well capped: <input checked="" type="radio"/> N <input type="radio"/> Well locked: <input checked="" type="radio"/> N <input type="radio"/>
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88			

PURGING DATA

Initial Depth of Tubing (ft): <b>37'</b>	Final Depth of Tubing (ft): <b>37'</b>	Total Purge Time:	Purge Equipment (circle one): Bailer <input type="radio"/> Bladder Pump <input type="radio"/> Electric Submersible Pump <input type="radio"/> <u>Peristaltic Pump</u> <input checked="" type="radio"/> Other (specify):						
Initial Purge Rate (gpm): <b>0.1</b>	Final Purge Rate (gpm): <b>0.1</b>	Purge Method (circle one): <u>Low Flow-Low Stress</u> <input checked="" type="radio"/> Micro-purge <input type="radio"/>	Meter(s) used (circle one): <u>YSI 556</u> <input checked="" type="radio"/> Lamotte 2020 <input type="radio"/> Horiba U53 <input type="radio"/>						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
1030	0.5	33.40	20.90	5.51	0.040	7.39	16.0	clear	109.1
1035	1.0	33.41	19.96	5.38	0.038	7.20	4.40	clear	113.7
1040	1.5	33.41	19.81	5.35	0.039	7.02	3.63	clear	116.9
1045	2.0	33.41	19.55	5.32	0.037	6.94	1.53	clear	118.4
1050	2.5	33.41	19.55	5.30	0.037	7.00	1.13	clear	120.2
1055	3.0	33.41	19.60	5.30	0.037	6.90	0.78	clear	116.6
Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)									

SAMPLING

Sampled by (print): <b>Mark Padgett</b>		Collection Method (circle one): Bailer <input checked="" type="radio"/> Straw method <input type="radio"/> Vacuum Jug <input type="radio"/> Other <input type="radio"/>			Time Sampling Initiated: <b>1100</b>	Time Sampling Completed: <b>1105</b>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<b>MW-17</b>	<b>1100</b>	<b>3</b>	<b>40 ml</b>	<b>HCl-</b>	<b>VOCs-8260</b>	<b>G</b>

Notes:

Equipment Cleaning Procedures:

- potable water and phosphate-free soap
- potable-water rinse
- water rinse: distilled      deionized
- solvent rinse: acetone      hexane





GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number:	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-19</u>	
Date: <u>7-24-18</u>	Start Time at Well: <u>0800</u>	End Time at Well: <u>0925</u>	
Sampler: <u>M. Padgett</u>	Weather: <u>Cloudy, 75°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>25</u> (ft) to <u>40</u> (ft)	Initial Depth to Water (ft): <u>34.43</u>	Damage to well: Y <input type="radio"/> N <input checked="" type="radio"/>
Total Well Depth (ft): <u>40'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>0.74</u> <u>0.163 MP</u>	3 Well Vol. (gal): <u>2.22</u>
Well Recharge is: very slow slow <input checked="" type="radio"/> moderate fast	Bailed dry: Y <input type="radio"/> N <input checked="" type="radio"/> NA	Total Vol. Purged (gal): <u>3.5-gallons</u>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>38'</u>	Final Depth of Tubing (ft): <u>38'</u>	Total Purge Time: <u>40 mins</u>	Purge Equipment (circle one): Baller Bladder Pump Electric Submersible Pump <input checked="" type="radio"/> Peristaltic Pump Other (specify)						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <input checked="" type="radio"/> Low Flow-Low Stress <input type="radio"/> Micro-purge	Meter(s) used (circle one) <input checked="" type="radio"/> YSI 555 <input type="radio"/> Lamotte 2020 <input type="radio"/> Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
<u>0845</u>	<u>0.5</u>	<u>34.76</u>	<u>20.05</u>	<u>5.51</u>	<u>0.061</u>	<u>7.83</u>	<u>109</u>	<u>clear</u>	<u>121.4</u>
<u>0850</u>	<u>1.0</u>	<u>34.78</u>	<u>19.97</u>	<u>5.44</u>	<u>0.061</u>	<u>7.76</u>	<u>83.1</u>	<u>clear</u>	<u>127.4</u>
<u>0855</u>	<u>1.5</u>	<u>34.81</u>	<u>19.92</u>	<u>5.34</u>	<u>0.059</u>	<u>7.63</u>	<u>56.0</u>	<u>clear</u>	<u>133.8</u>
<u>0900</u>	<u>2.0</u>	<u>34.81</u>	<u>19.93</u>	<u>5.25</u>	<u>0.061</u>	<u>7.38</u>	<u>25.7</u>	<u>clear</u>	<u>137.1</u>
<u>0905</u>	<u>2.5</u>	<u>34.81</u>	<u>19.89</u>	<u>5.20</u>	<u>0.062</u>	<u>6.85</u>	<u>13.9</u>	<u>clear</u>	<u>137.2</u>
<u>0910</u>	<u>3.0</u>	<u>34.81</u>	<u>19.87</u>	<u>5.16</u>	<u>0.062</u>	<u>6.90</u>	<u>12.3</u>	<u>clear</u>	<u>136.8</u>
<u>0915</u>	<u>3.5</u>	<u>34.82</u>	<u>19.85</u>	<u>5.13</u>	<u>0.062</u>	<u>6.81</u>	<u>8.28</u>	<u>clear</u>	<u>135.9</u>

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>Mack Padgett</u>		Collection Method (circle one): <input type="radio"/> Baller <input checked="" type="radio"/> straw method <input type="radio"/> Vacuum Jug <input type="radio"/> Other			Time Sampling Initiated: <u>0920</u>	Time Sampling Completed: <u>0925</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-19</u>	<u>0920</u>	<u>3</u>	<u>40 ml</u>	<u>HCl</u>	<u>VOCs-8260</u>	<u>G</u>

Notes:	Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled deionized solvent rinse: acetone hexane
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GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Ropes Pump</u>		Project Number: <u>B6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-20</u>	
Date: <u>7/24/18</u>	Start Time at Well: <u>8:40</u>	End Time at Well: <u>1030</u>	
Sampler: <u>SEF</u>	Weather: <u>Overcast</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>25</u> (ft) to <u>40</u> (ft)	Initial Depth to Water (ft): <u>24.10</u>
Total Well Depth (ft): <u>40.85</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>2.73</u>
		3 Well Vol. (gal): <u>8.19</u>
		Total Vol. Purged (gal): <u>3.5L</u>

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>33</u>	Final Depth of Tubing (ft): <u>33</u>	Total Purge Time: <u>42 min</u>	Purge Equipment (circle one): <u>Peristaltic Pump</u> Bailer Bladder Pump Electric Submersible Pump Other (specify)
Initial Purge Rate (gpm): <u>0.14/m</u>	Final Purge Rate (gpm): <u>0.14/m</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba US3

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Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
928	0.5L	24.25	20.95	4.64	0.098	5.33	19.3	clr/no	78.0
933	1.0L	24.29	20.78	3.99	0.072	5.30	15.5	" "	60.0
938	1.5L	24.29	20.70	4.23	0.065	5.35	13.6	" "	47.9
943	2.0L	24.29	20.71	4.57	0.066	5.44	12.4	" "	-19.5
948	2.5L	24.29	20.70	4.92	0.067	5.36	9.95	" "	-45.4
953	3.0L	24.29	20.71	4.94	0.067	5.36	8.78	" "	-29.3
958	3.5L	24.29	20.71	5.01	0.066	5.28	7.89	" "	-5.2
1000	5	a	M	P	I	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>SEF</u>		Collection Method (circle one): <u>Bailer</u> Straw method Vacuum Jug Other			Time Sampling Initiated: <u>1000</u>	Time Sampling Completed: <u>1005</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
MW-20	1000	3	40ml	HCl	VOC	G

Notes:



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number: <u>6572-0001</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-21</u>	
Date: <u>7-25-18</u>	Start Time at Well: <u>1355</u>	End Time at Well: <u>1455</u>	
Sampler: <u>McP</u>	Weather: <u>SUNNY 80°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (In): <u>2"</u>	Well Screen Depth Interval: <u>30</u> (ft) to <u>40</u> (ft)	Initial Depth to Water (ft): <u>19.59</u>	Damage to well: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Total Well Depth (ft): <u>40'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>3.33</u>	3 Well Vol. (gal): <u>9.98</u>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input checked="" type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	Total Vol. Purged (gal):	Ferrous iron (mg/L):
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88			

PURGING DATA

Initial Depth of Tubing (ft): <u>35'</u>	Final Depth of Tubing (ft): <u>35'</u>	Total Purge Time:	Purge Equipment (circle one): <u>Bailer</u> Bladder Pump Electric Submersible Pump <u>Pefistaltic Pump</u> Other (specify)						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> Micro-purge	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
<u>1415</u>	<u>0.5</u>	<u>19.73</u>	<u>20.81</u>	<u>6.36</u>	<u>0.423</u>	<u>1.32</u>	<u>3.92</u>	<u>CLP/NO</u>	<u>-43.6</u>
<u>1420</u>	<u>1.0</u>	<u>19.74</u>	<u>20.94</u>	<u>6.34</u>	<u>0.412</u>	<u>0.86</u>	<u>2.65</u>	<u>clear</u>	<u>-46.6</u>
<u>1425</u>	<u>1.5</u>	<u>19.73</u>	<u>20.87</u>	<u>6.32</u>	<u>0.399</u>	<u>0.56</u>	<u>2.92</u>	<u>clear</u>	<u>-46.6</u>
<u>1430</u>	<u>2.0</u>	<u>19.73</u>	<u>20.78</u>	<u>6.31</u>	<u>0.381</u>	<u>0.44</u>	<u>1.82</u>	<u>clear</u>	<u>-46.6</u>
<u>1435</u>	<u>2.5</u>	<u>19.73</u>	<u>20.76</u>	<u>6.30</u>	<u>0.370</u>	<u>0.53</u>	<u>1.64</u>	<u>clear</u>	<u>-44.6</u>
<u>1440</u>	<u>3.0</u>	<u>19.73</u>	<u>20.74</u>	<u>6.30</u>	<u>0.362</u>	<u>0.32</u>	<u>1.65</u>	<u>clear</u>	<u>-46.4</u>
<u>1445</u>	<u>3.5</u>	<u>19.73</u>	<u>20.80</u>	<u>6.29</u>	<u>0.358</u>	<u>0.30</u>	<u>1.92</u>	<u>clear</u>	<u>-45.2</u>
Stabilization: Temperature - ± 0.1%; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)									

SAMPLING

Sampled by (print): <u>Mark Padgett</u>		Collection Method (circle one): <u>Bailer</u> <del>straw method</del> Vacuum Jug Other			Time Sampling Initiated: <u>1450</u>	Time Sampling Completed: <u>1455</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-21</u>	<u>1450</u>	<u>3</u>	<u>40 ml</u>	<u>Hel-</u>	<u>VOC5-8260</u>	<u>G</u>
Notes: <u>DUP-2 collected</u>				Equipment Cleaning Procedures: potable water and phosphate-free soap potable-water rinse water rinse: distilled deionized solvent rinse: acetone hexane		



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number:	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-21D</u>	
Date: <u>7-24-18</u>	Start Time at Well: <u>1050</u>	End Time at Well: <u>1135</u>	
Sampler: <u>M. Ramirez</u>	Weather: <u>SUNNY, 80°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in): <u>2"</u>	Well Screen Depth Interval: <u>50</u> (ft) to <u>60</u> (ft)	Initial Depth to Water (ft): <u>19.88</u>	Damage to well: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Total Well Depth (ft): <u>60'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>6.54</u>	3 Well Vol. (gal): <u>19.62</u>
Well Recharge is: very slow <input type="checkbox"/> slow <input type="checkbox"/> moderate <input checked="" type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <u>3.0 gallons</u>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>55'</u>	Final Depth of Tubing (ft): <u>55'</u>	Total Purge Time: <u>40 MINS</u>	Purge Equipment (circle one): Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (specify):						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u>	Meter(s) used (circle one): <u>YSI 556</u> Lamotte 2020 Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>1100</u>	<u>0.5</u>	<u>20.12</u>	<u>20.81</u>	<u>6.34</u>	<u>0.138</u>	<u>2.41</u>	<u>4.00</u>	<u>CLR/NO</u>	<u>-95.0</u>
<u>1105</u>	<u>1.0</u>	<u>20.12</u>	<u>20.65</u>	<u>6.39</u>	<u>0.139</u>	<u>1.27</u>	<u>4.42</u>	<u>CLR/NO</u>	<u>-113.4</u>
<u>1110</u>	<u>1.5</u>	<u>20.12</u>	<u>20.53</u>	<u>6.43</u>	<u>0.136</u>	<u>0.91</u>	<u>3.52</u>	<u>CLR/NO</u>	<u>-120.9</u>
<u>1115</u>	<u>2.0</u>	<u>20.20</u>	<u>20.55</u>	<u>6.44</u>	<u>0.134</u>	<u>0.63</u>	<u>5.37</u>	<u>CLR/NO</u>	<u>-124.6</u>
<u>1120</u>	<u>2.5</u>	<u>20.22</u>	<u>20.58</u>	<u>6.46</u>	<u>0.131</u>	<u>0.52</u>	<u>3.57</u>	<u>CLR/NO</u>	<u>-126.6</u>
<u>1125</u>	<u>3.0</u>	<u>20.24</u>	<u>20.61</u>	<u>6.49</u>	<u>0.128</u>	<u>0.44</u>	<u>2.99</u>	<u>CLR/NO</u>	<u>-124.8</u>

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>M. Ramirez</u>		Collection Method (circle one): Bailer <input type="checkbox"/> <u>Straw method</u> Vacuum Jug <input type="checkbox"/> Other <input type="checkbox"/>			Time Sampling Initiated: <u>1130</u>	Time Sampling Completed: <u>1135</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-21D</u>	<u>1130</u>	<u>3</u>	<u>40 ml</u>	<u>HCl-</u>	<u>VOCS-8260</u>	<u>G</u>

Notes:

Equipment Cleaning Procedures:  
 potable water and phosphate-free soap  
 potable-water rinse  
 water rinse: distilled deionized  
 solvent rinse: acetone hexane



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Roper</u>		Project Number: <u>6572-0001</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-22</u>	
Date: <u>7-26-18</u>	Start Time at Well: <u>0940</u>	End Time at Well: <u>1025</u>	
Sampler: <u>MCP</u>	Weather: <u>SUNNY, 80°F</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (In): <u>2"</u>	Well Screen Depth Interval: <u>30</u> (ft) to <u>40</u> (ft)	Initial Depth to Water (ft): <u>15.89</u>	Damage to well: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Total Well Depth (ft): <u>40'</u>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>3.93</u>	3 Well Vol. (gal): <u>11.79</u>
Well Recharge is: very slow <input type="checkbox"/> slow <input checked="" type="checkbox"/> moderate <input type="checkbox"/> fast <input type="checkbox"/>	Bailed dry: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	Total Vol. Purged (gal): <u>3.0-gallons</u>	Ferrous Iron (mg/L):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.163; 3" = 0.37; 4" = 0.653; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft): <u>35'</u>	Final Depth of Tubing (ft): <u>35'</u>	Total Purge Time: <u>35 MINS</u>	Purge Equipment (circle one): Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> <u>Peristaltic Pump</u> <input checked="" type="checkbox"/> Other (specify)						
Initial Purge Rate (gpm): <u>0.1</u>	Final Purge Rate (gpm): <u>0.1</u>	Purge Method (circle one): <u>Low Flow-Low Stress Micro-purge</u> <input checked="" type="checkbox"/>	Meter(s) used (circle one): <u>YSI 555</u> <input checked="" type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53 <input type="checkbox"/>						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/Odor	ORP (mV)
<u>0955</u>	<u>1.0</u>	<u>16.47</u>	<u>20.56</u>	<u>6.16</u>	<u>0.197</u>	<u>1.85</u>	<u>16.4</u>	<u>clear</u>	<u>82.7</u>
<u>1000</u>	<u>1.5</u>	<u>16.48</u>	<u>20.57</u>	<u>6.20</u>	<u>0.199</u>	<u>1.69</u>	<u>11.9</u>	<u>clear</u>	<u>79.9</u>
<u>1005</u>	<u>2.0</u>	<u>16.48</u>	<u>20.60</u>	<u>6.20</u>	<u>0.190</u>	<u>1.56</u>	<u>6.93</u>	<u>clear</u>	<u>77.9</u>
<u>1010</u>	<u>2.5</u>	<u>16.48</u>	<u>20.62</u>	<u>6.19</u>	<u>0.182</u>	<u>1.53</u>	<u>5.83</u>	<u>clear</u>	<u>75.1</u>
<u>1015</u>	<u>3.0</u>	<u>16.48</u>	<u>20.64</u>	<u>6.18</u>	<u>0.182</u>	<u>1.43</u>	<u>4.56</u>	<u>clear</u>	<u>73.8</u>

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

SAMPLING

Sampled by (print): <u>Mark Padgett</u>		Collection Method (circle one): Bailer <input type="checkbox"/> <u>Straw method</u> <input checked="" type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other <input type="checkbox"/>			Time Sampling Initiated: <u>1020</u>	Time Sampling Completed: <u>1025</u>
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-22</u>	<u>1020</u>	<u>3</u>	<u>40 ml</u>	<u>HEI-</u>	<u>VOCS-8260</u>	<u>G</u>

Notes:

Equipment Cleaning Procedures:  
 potable water and phosphate-free soap  
 potable-water rinse  
 water rinse: distilled      deionized  
 solvent rinse: acetone      hexane

Responsive partner. Exceptional outcomes.

Project: <u>Roper Pump</u>		Project Number: <u>B36572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-23</u>	
Date: <u>7/25/14</u>	Start Time at Well: <u>955</u>	End Time at Well: <u>1220</u>	
Sampler: <u>SEF</u>	Weather: <u>clear 90s</u>	Comments:	

**WELL CHARACTERISTICS**

Well Diameter (in): <u>2</u>	Well Screen Depth Interval: <u>40</u> (ft) to <u>50</u> (ft)	Initial Depth to Water (ft): <u>22.22</u>
Total Well Depth (ft): <u>45.03</u> <del>50.00</del>	Well Capacity (gallons per foot): <u>0.163</u>	1 Well Volume (gallons): <u>3.71</u>
		3 Well Vol. (gal): <u>11.13</u>
		Total Vol. Purged (gal): <u>6.5L</u>
Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88		

**PURGING DATA**

Initial Depth of Tubing (ft): <u>42.5</u> <del>45</del>	Final Depth of Tubing (ft): <u>42.5</u>	Total Purge Time: <u>74 min</u>	Purge Equipment (circle one): <u>Peristaltic Pump</u> <input type="checkbox"/> Baller Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Other (specify)
Initial Purge Rate (gpm): <u>0.14/m</u>	Final Purge Rate (gpm): <u>0.14/m</u>	Purge Method (circle one): <u>Low Flow-Low Stress</u> <input type="checkbox"/> Micro-purge <input type="checkbox"/>	Meter(s) used (circle one): <u>YSI 556</u> <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53 <input type="checkbox"/>

10:51

Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
10:56	25.05L	22.31	25.44	6.47	0.431	0.80	207	b/k/no	-81.7
10:01	1.0L	22.31	23.85	6.45	0.406	0.47	160	grey/no	-81.0
11:06	1.5L	22.33	22.95	6.44	0.365	0.41	109	clear/no	-66.0
11:11	2.0L	22.33	22.72	6.41	0.350	0.45	94.3	" "	-57.0
11:16	2.5L	22.32	22.64	6.45	0.310	0.47	68.1	" "	-54.3
11:21	3.0L	22.32	22.55	6.43	0.304	0.49	71.1	" "	-53.0
11:26	3.5L	22.32	22.39	6.36	0.277	0.53	44.4	" "	-43.8
11:31	4.0L	22.32	22.78	6.42	0.272	0.55	41.2	" "	-45.3
11:36	4.5L	22.32	21.67	6.38	0.252	0.60	42.6	" "	-40.5
11:41	5.0L	22.34	21.59	6.27	0.234	0.61	36.3	" "	-33.5
11:46	5.5L	22.34	21.80	6.23	0.214	0.90	29.1	" "	-33.7

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

**SAMPLING**

Sampled by (print): <u>SEF</u>	Collection Method (circle one): <u>Baller</u> <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other <input type="checkbox"/>	Time Sampling Initiated: <u>1200</u>	Time Sampling Completed: <u>1205</u>			
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))
<u>MW-23</u>	<u>1200</u>	<u>3</u>	<u>40ml HCL</u>		<u>VOC</u>	<u>G</u>

 Notes:  
 For first 4-5 minutes of purging water was jet black from BAM. Gradually became clearer.



GROUNDWATER SAMPLING LOG

Responsive partner. Exceptional outcomes.

Project: <u>Boxer Pump</u>		Project Number: <u>B6572</u>	
Location: <u>Commerce, GA</u>		Well ID: <u>MW-23</u>	
Date: <u>7/25/18</u>	Start Time at Well: <u>9:55</u>	End Time at Well:	
Sampler: <u>SFF</u>	Weather: <u>clear 90s</u>	Comments:	

WELL CHARACTERISTICS

Well Diameter (in):	Well Screen Depth Interval: _____ (ft) to _____ (ft)	Initial Depth to Water (ft):
Total Well Depth (ft):	Well Capacity (gallons per foot):	1 Well Volume (gallons):
		3 Well Vol. (gal):
		Total Vol. Purged (gal):

Well capacity (gallons per foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING DATA

Initial Depth of Tubing (ft):	Final Depth of Tubing (ft):	Total Purge Time:	Purge Equipment (circle one): <input type="checkbox"/> Bailer <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Electric Submersible Pump <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (specify) _____						
Initial Purge Rate (gpm):	Final Purge Rate (gpm):	Purge Method (circle one): <input type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Meter(s) used (circle one): <input type="checkbox"/> YSI 556 <input type="checkbox"/> Lamotte 2020 <input type="checkbox"/> Horiba U53						
Reading Time	Total Volume Purged (gal)	Depth to Water (ft)	Temperature (°C)	Ph SU	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color/ Odor	ORP (mV)
1151	6.0L	22.34	22.08	6.25	0.211	0.91	29.0	cl/no	-33.3
1156	6.5L	22.34	22.17	6.26	0.209	0.95	25.6	" "	-34.1
1200	5	a	m	p	l	e			

Stabilization: Temperature - ± 0.1°; pH - ± 0.1; Conductivity - ± 5%; Dissolved Oxygen - ± 0.2 mg/L (or 10% saturation); Turbidity - ≤ 10 NTUs (or stable)

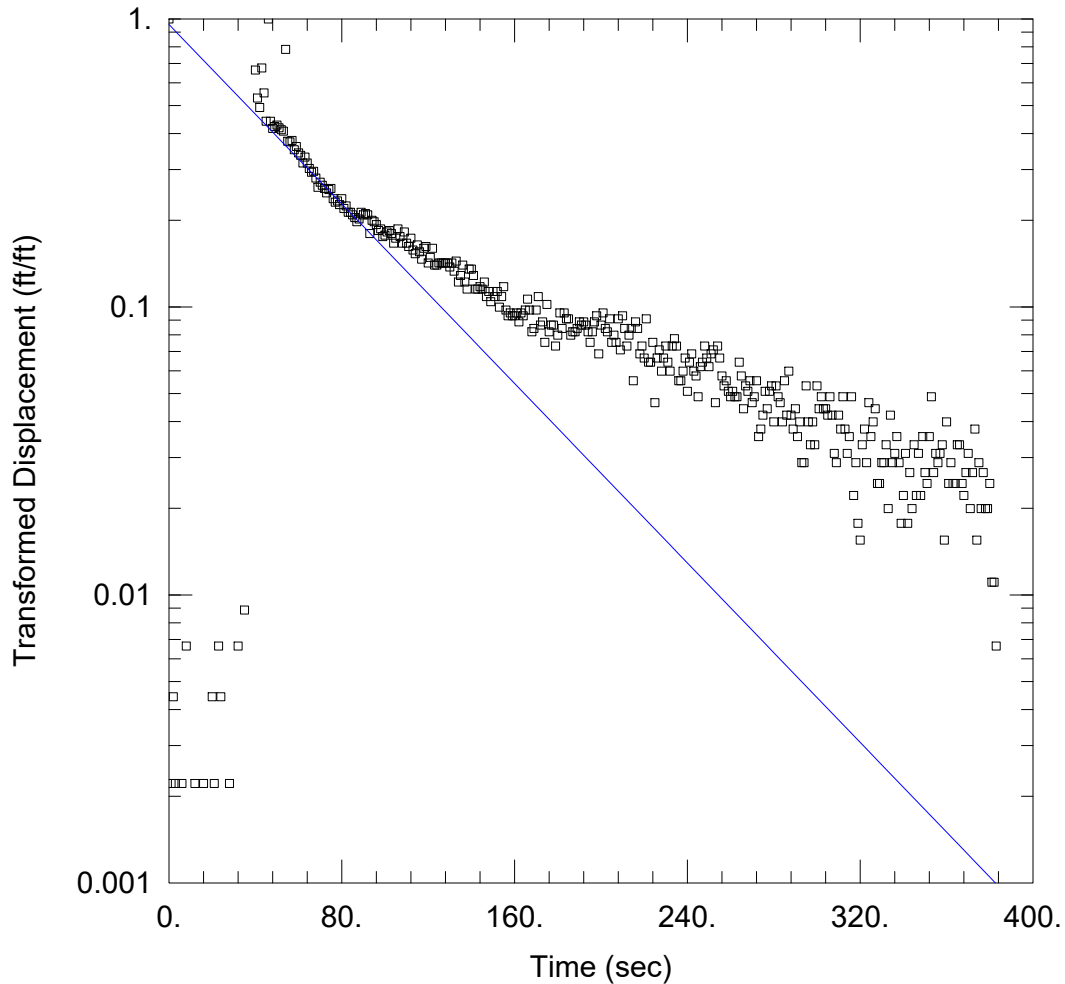
SAMPLING

Sampled by (print):		Collection Method (circle one): <input type="checkbox"/> Bailer <input type="checkbox"/> Straw method <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other			Time Sampling Initiated:	Time Sampling Completed:
Sample ID	Sample Time	Number of Containers	Volume	Preservative	Analysis/ EPA Method	Sample Type (G - Grab, C - Composite, Other (specify))

Notes:

Slug Test Data





WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-7 In.aqt  
 Date: 10/11/18 Time: 09:11:40

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-7 In  
 Test Date: 9/14/18

AQUIFER DATA

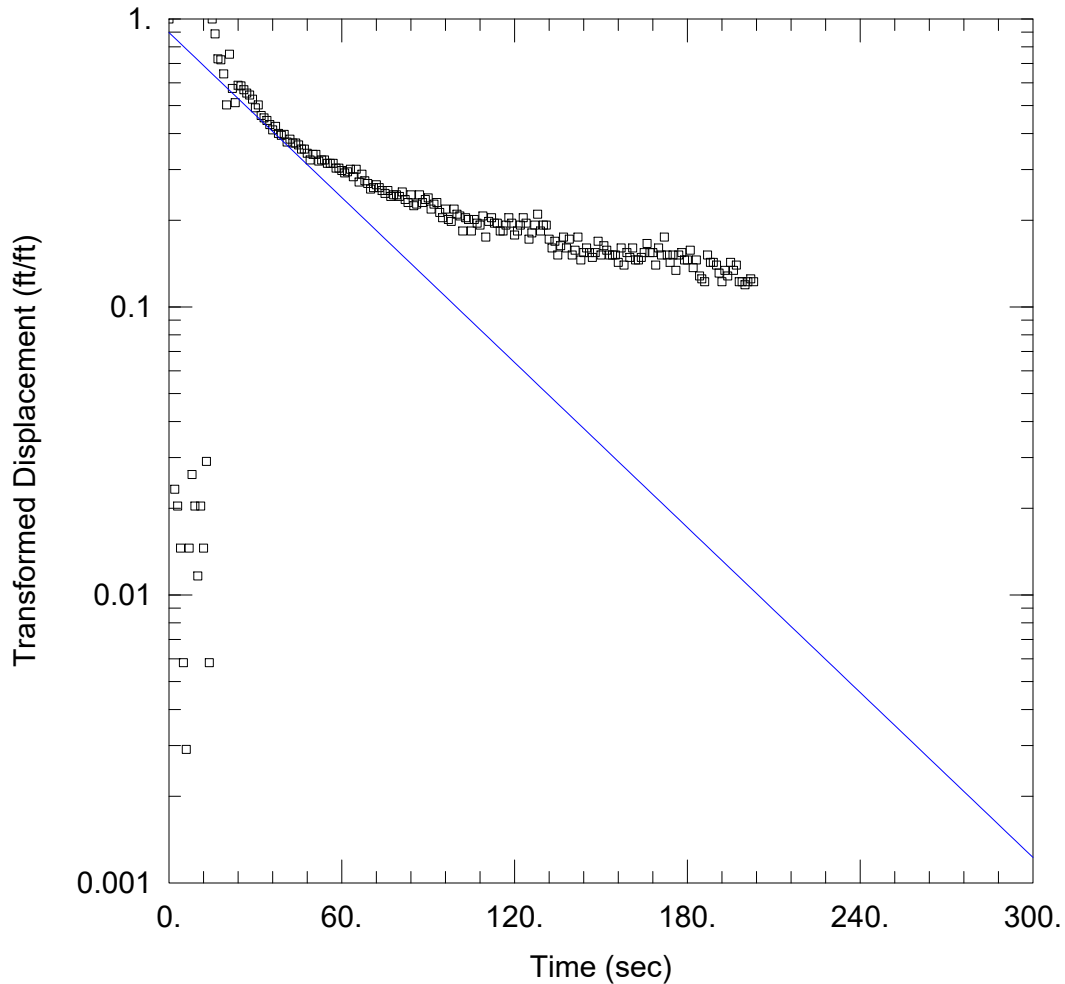
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7 In)

Initial Displacement: 0.445 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 15. ft Screen Length: 15. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 1.775E-5 ft/sec y0 = 0.4258 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-7 In2.aqt  
 Date: 10/11/18 Time: 09:17:40

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-7 In2  
 Test Date: 9/14/18

AQUIFER DATA

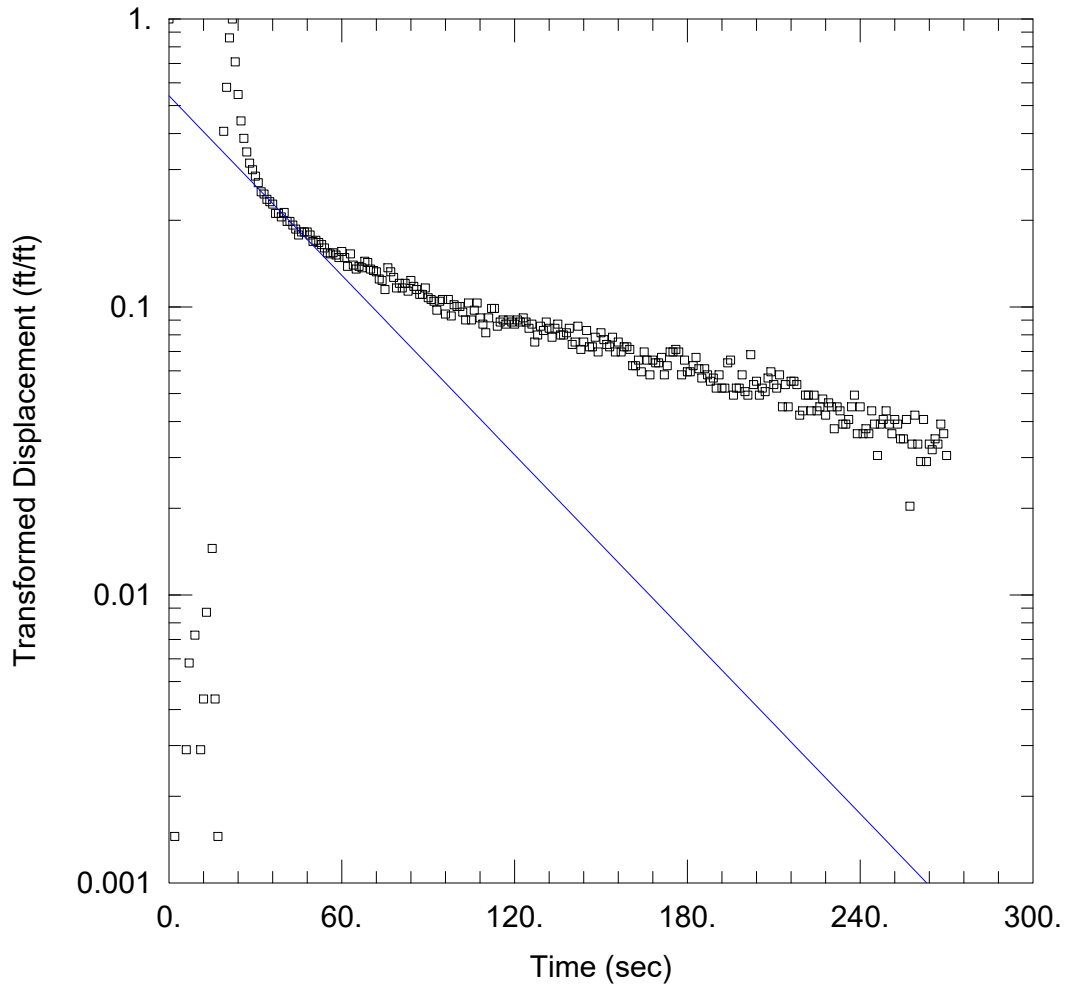
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7 In2)

Initial Displacement: 0.34 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 15. ft Screen Length: 15. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 2.175E-5 ft/sec y0 = 0.3052 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-7 Out.aqt  
 Date: 10/11/18 Time: 09:14:53

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-7 Out  
 Test Date: 9/14/18

AQUIFER DATA

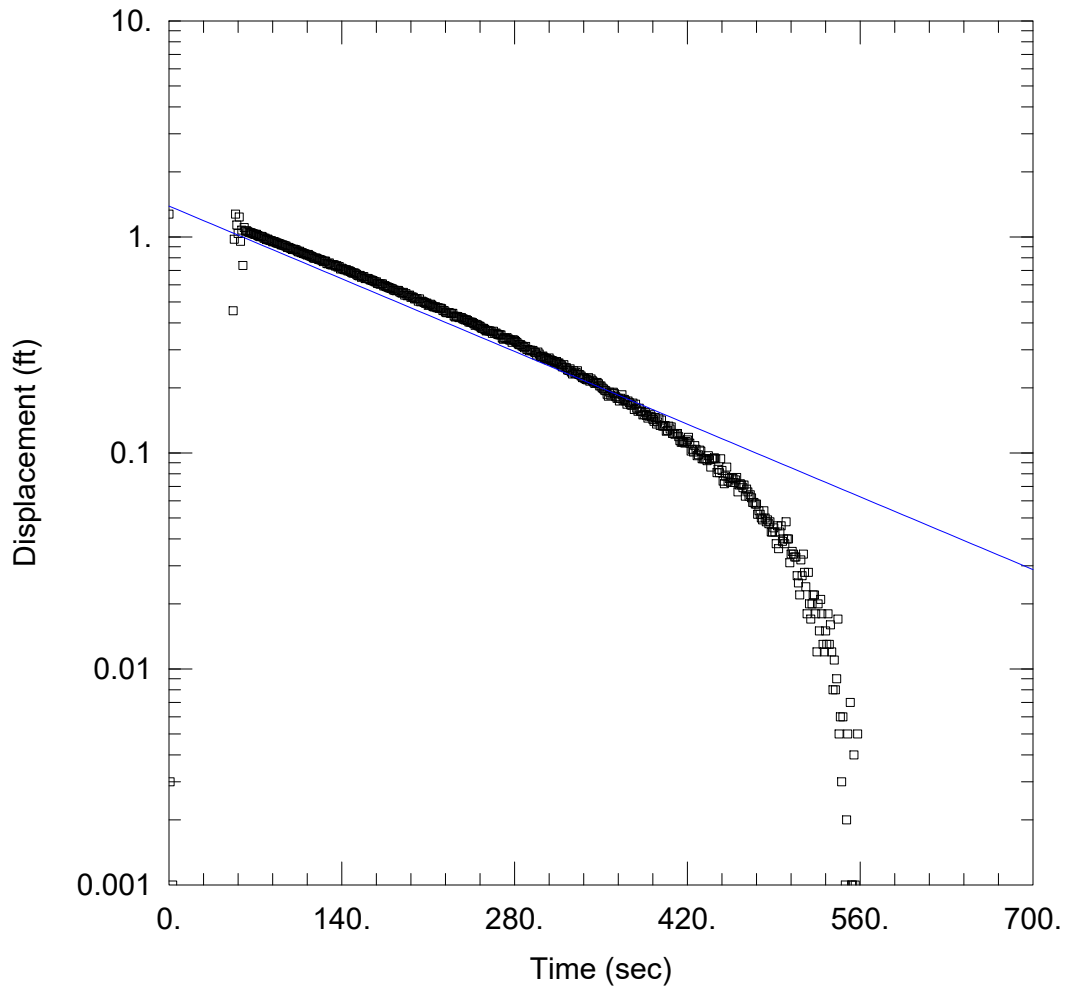
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7 Out)

Initial Displacement: 0.674 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 15. ft Screen Length: 15. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 2.366E-5 ft/sec y0 = 0.3682 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9D In.aqt  
 Date: 09/27/18 Time: 09:06:47

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9D In  
 Test Date: 9/13/18

### AQUIFER DATA

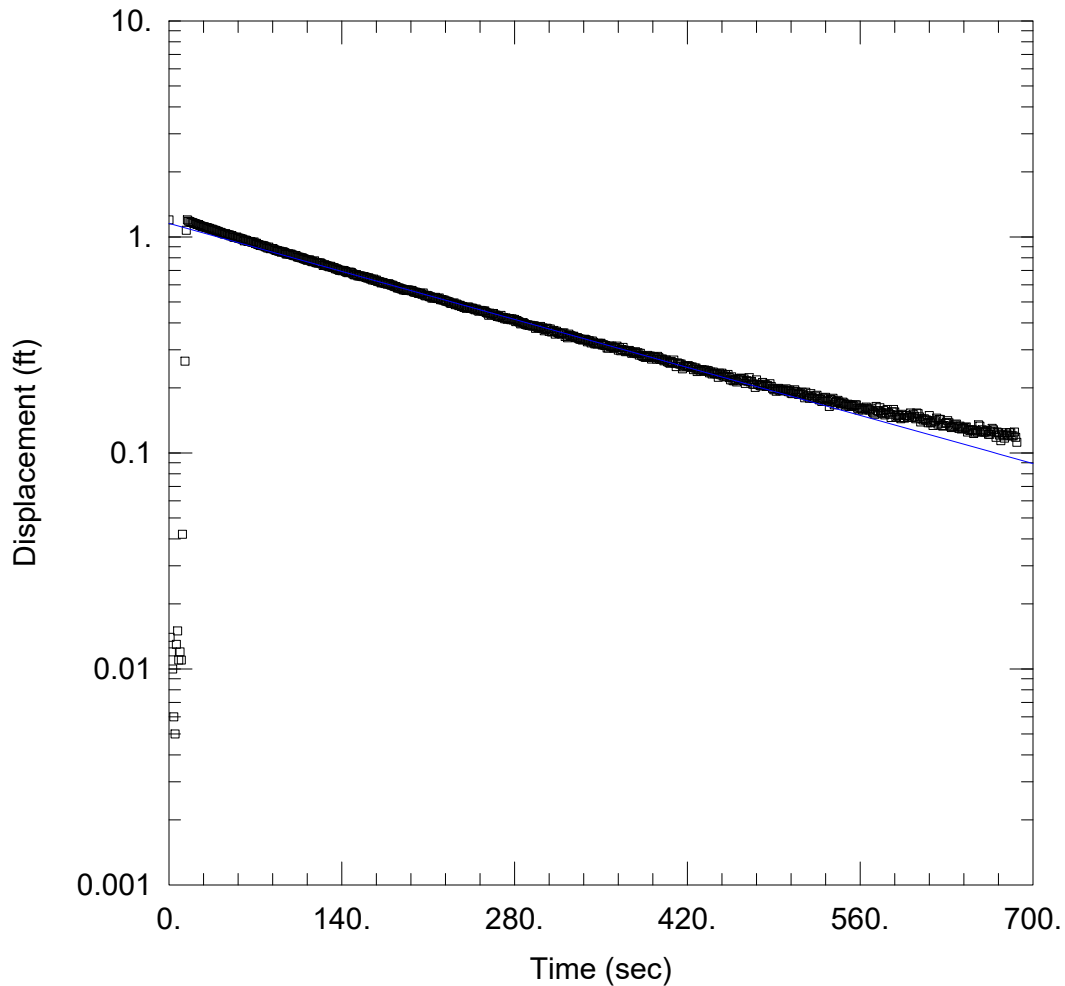
Saturated Thickness: 48.5 ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (New Well)

Initial Displacement: 1.276 ft Static Water Column Height: 48.5 ft  
 Total Well Penetration Depth: 48.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.714E-5 ft/sec  $y_0 =$  1.389 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9D Out 2.aqt  
 Date: 09/27/18 Time: 08:59:08

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9D Out 2  
 Test Date: 9/13/18

AQUIFER DATA

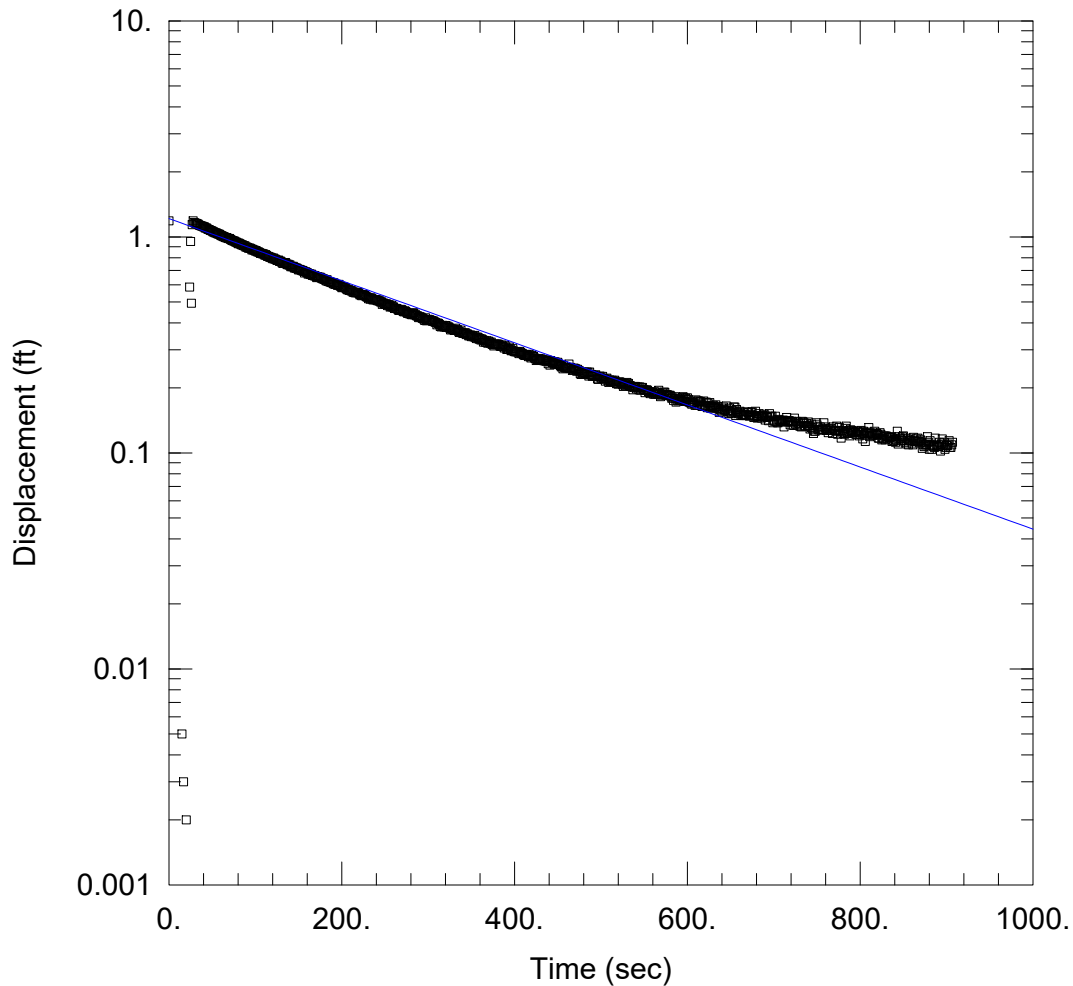
Saturated Thickness: 48.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9D Out 2)

Initial Displacement: 1.2 ft Static Water Column Height: 48.5 ft  
 Total Well Penetration Depth: 48.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.132E-5 ft/sec y0 = 1.155 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9D Out.aqt  
 Date: 09/27/18 Time: 09:11:34

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9D Out  
 Test Date: 9/13/18

AQUIFER DATA

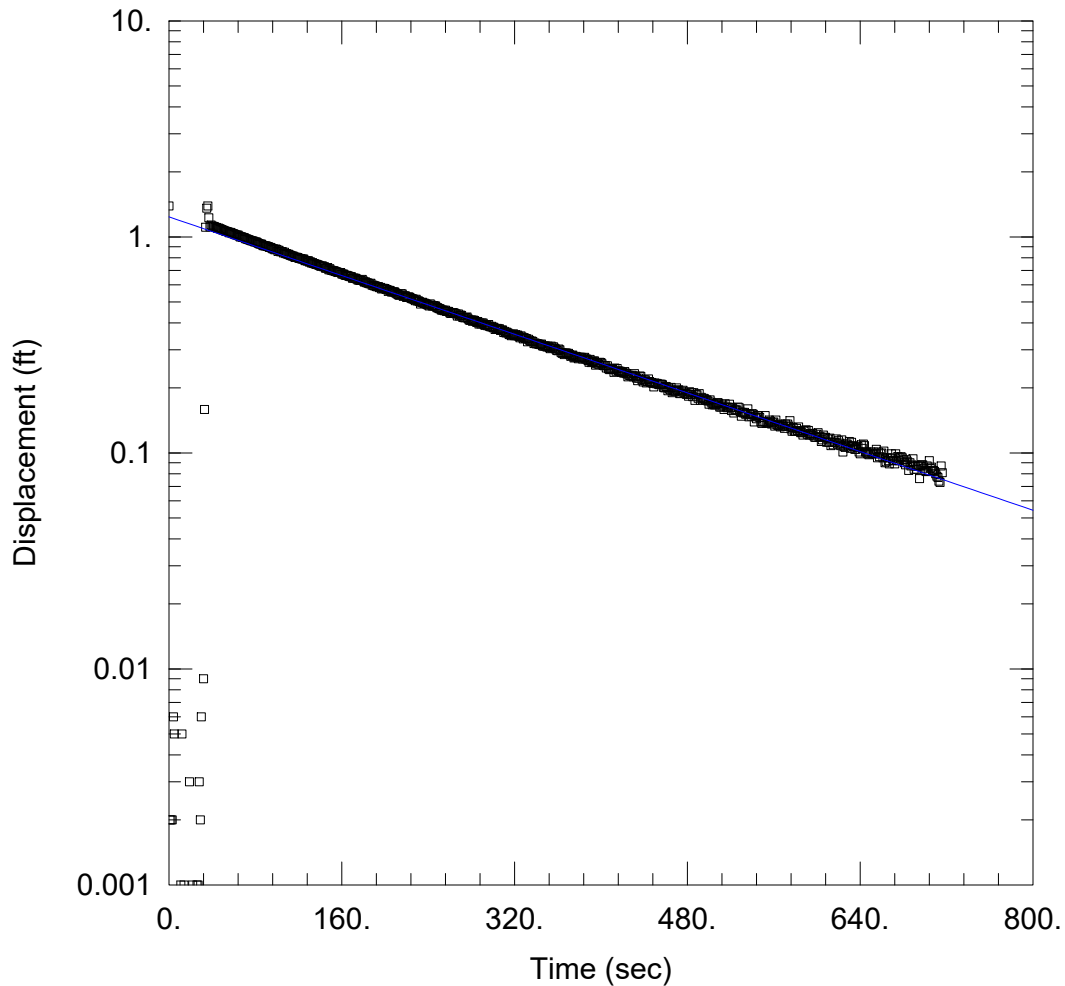
Saturated Thickness: 48.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9D Out)

Initial Displacement: 1.186 ft Static Water Column Height: 48.5 ft  
 Total Well Penetration Depth: 48.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 1.025E-5 ft/sec  $y_0 =$  1.216 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW9DIn2.aqt  
 Date: 09/27/18 Time: 08:47:30

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump Comapny  
 Project: B6572  
 Location: Commerce, ga  
 Test Well: MW-9D2 In  
 Test Date: 9/13/18

AQUIFER DATA

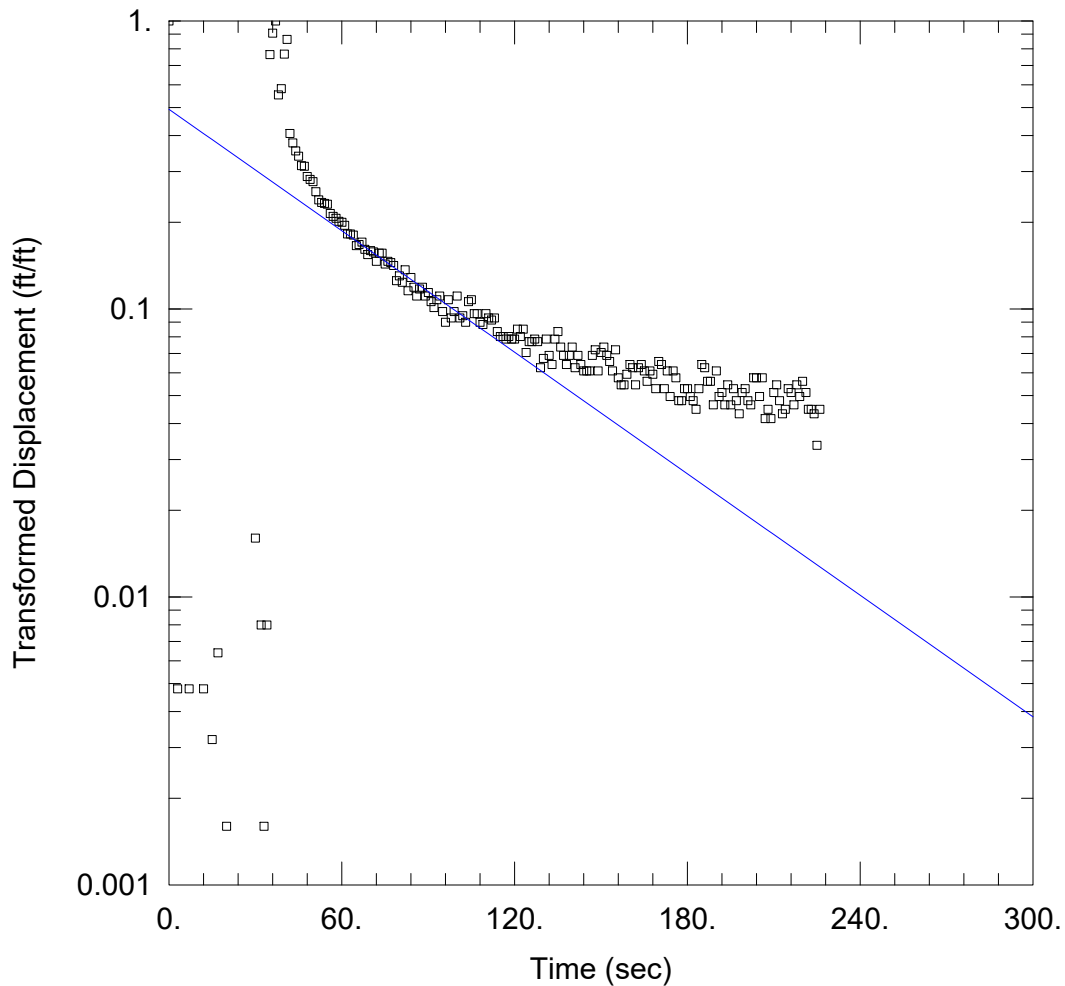
Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9D In 2)

Initial Displacement: 1.392 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 68.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 1.261E-5 ft/sec y0 = 1.238 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9S In.aqt  
 Date: 09/27/18 Time: 09:57:50

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9S In  
 Test Date: 9/13/18

AQUIFER DATA

Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

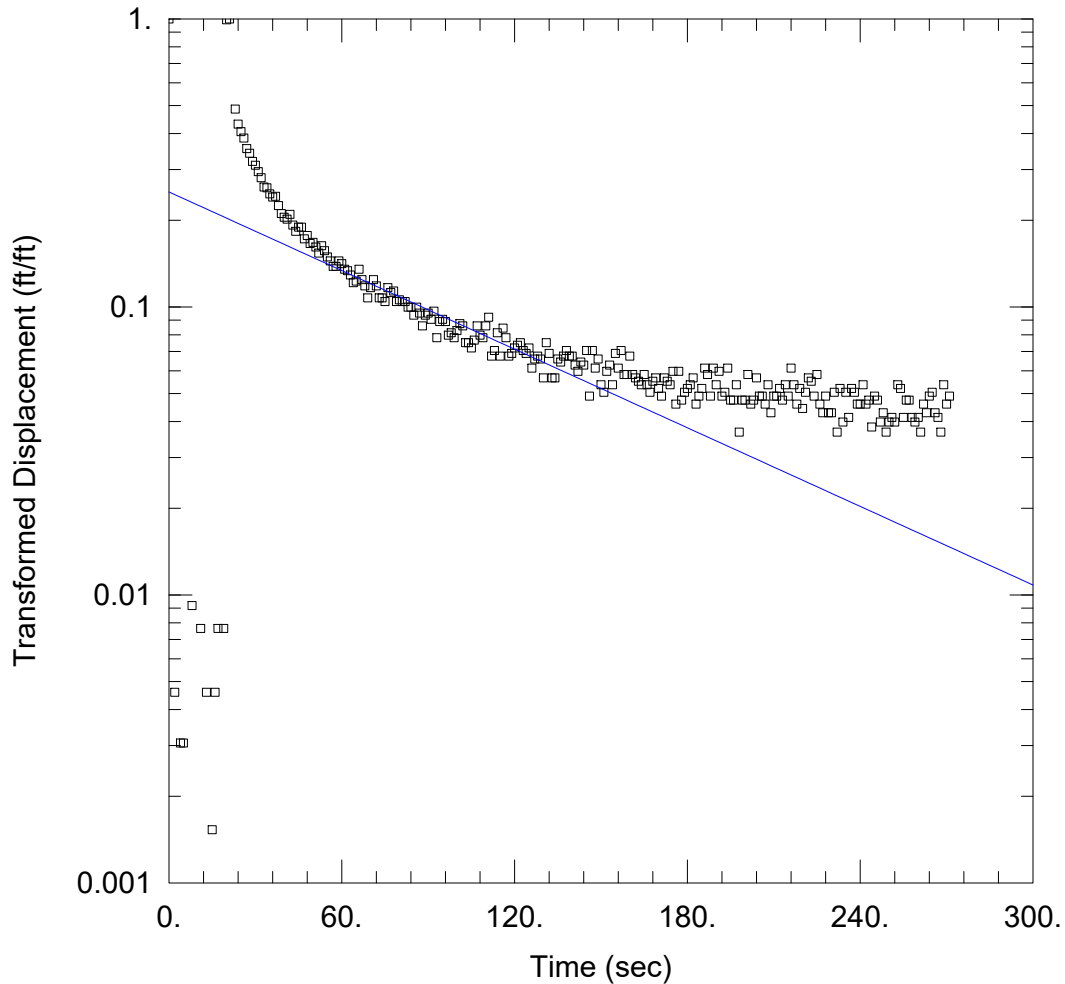
WELL DATA (MW-9S In)

Initial Displacement: 0.599 ft Static Water Column Height: 7. ft  
 Total Well Penetration Depth: 23. ft Screen Length: 7. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 2.888E-5 ft/sec y0 = 0.3021 ft





WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9S In2.aqt  
 Date: 09/27/18 Time: 10:07:34

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9S In2  
 Test Date: 9/13/18

AQUIFER DATA

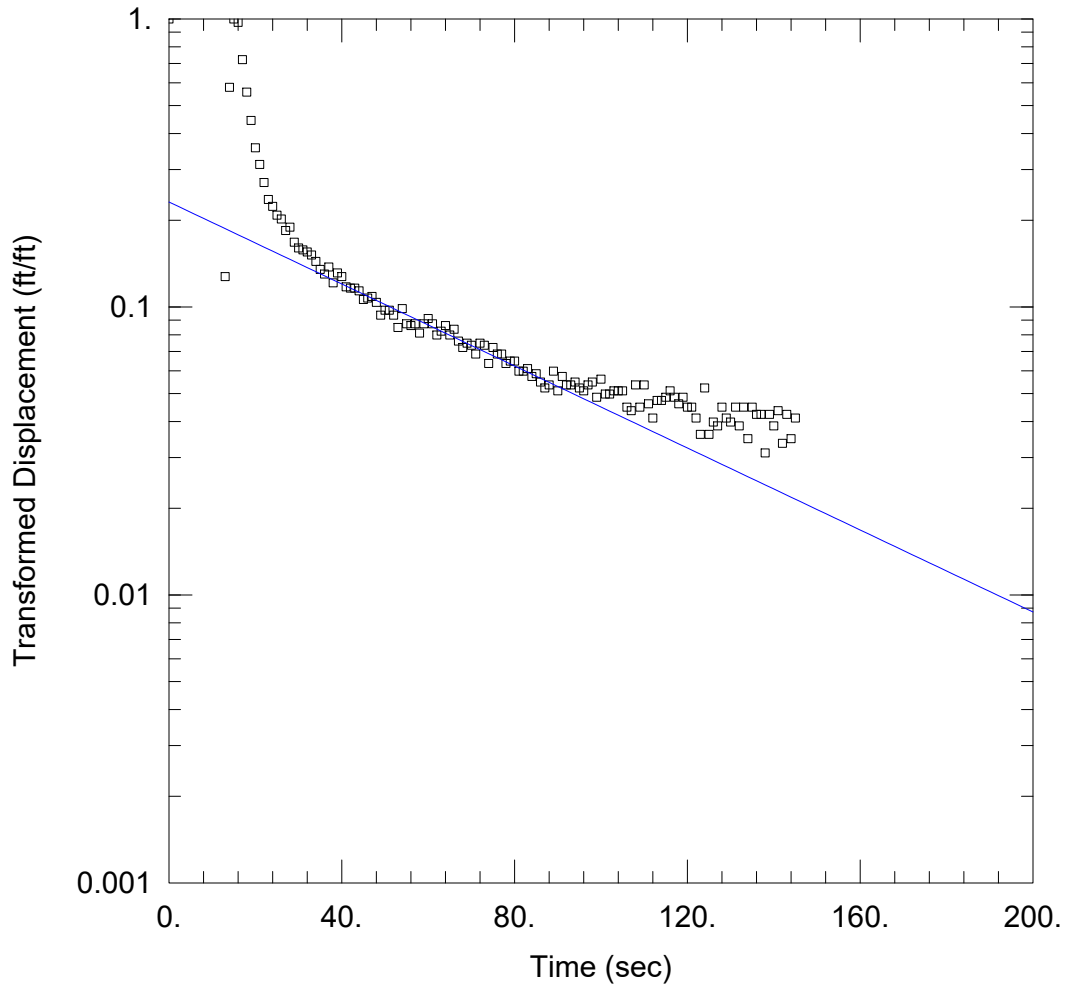
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9S In2)

Initial Displacement: 0.633 ft Static Water Column Height: 7. ft  
 Total Well Penetration Depth: 26. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 1.429E-5 ft/sec y0 = 0.1625 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9S Out.aqt  
 Date: 09/27/18 Time: 10:02:07

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9S Out  
 Test Date: 9/13/18

AQUIFER DATA

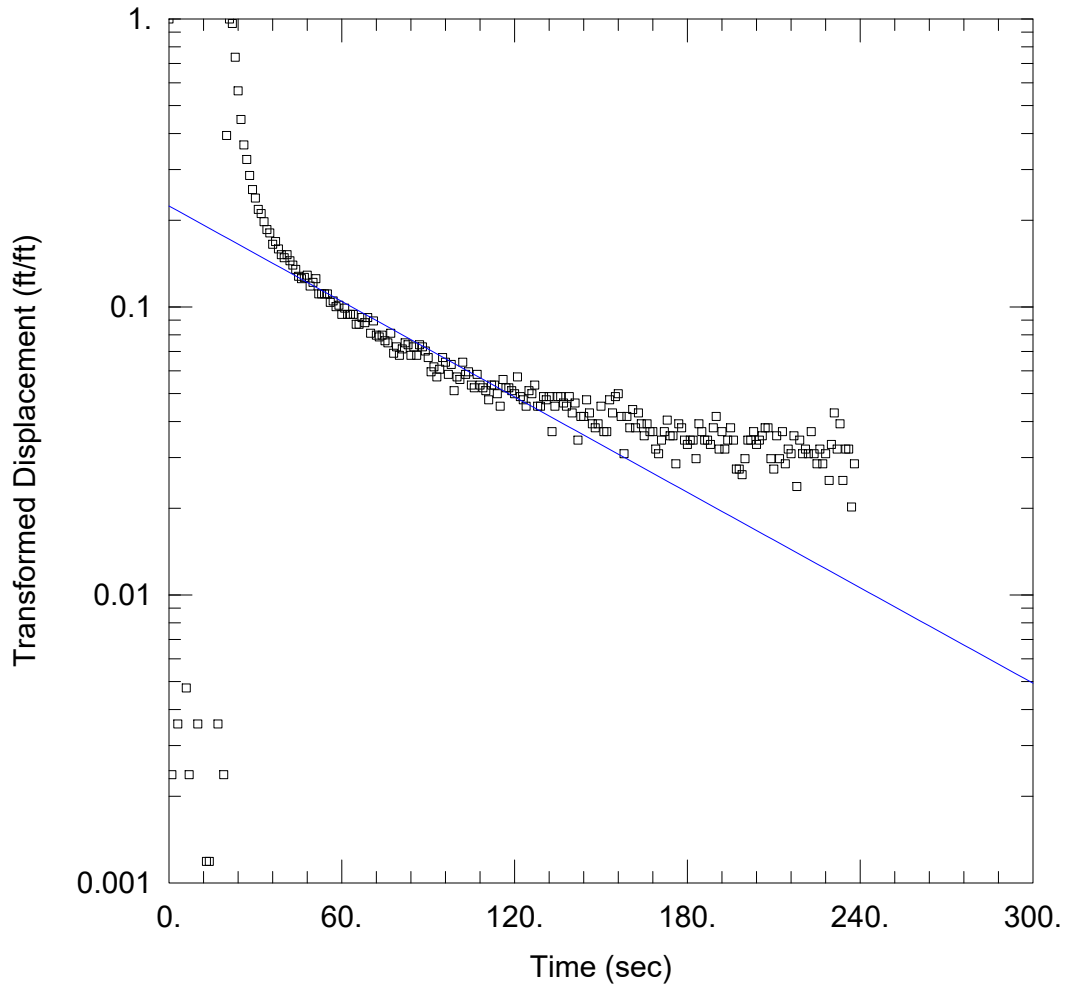
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9S Out)

Initial Displacement: 0.773 ft Static Water Column Height: 7. ft  
 Total Well Penetration Depth: 26. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 2.236E-5 ft/sec y0 = 0.1843 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-9S Out2.aqt  
 Date: 09/27/18 Time: 10:10:35

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-9S Out2  
 Test Date: 9/13/18

### AQUIFER DATA

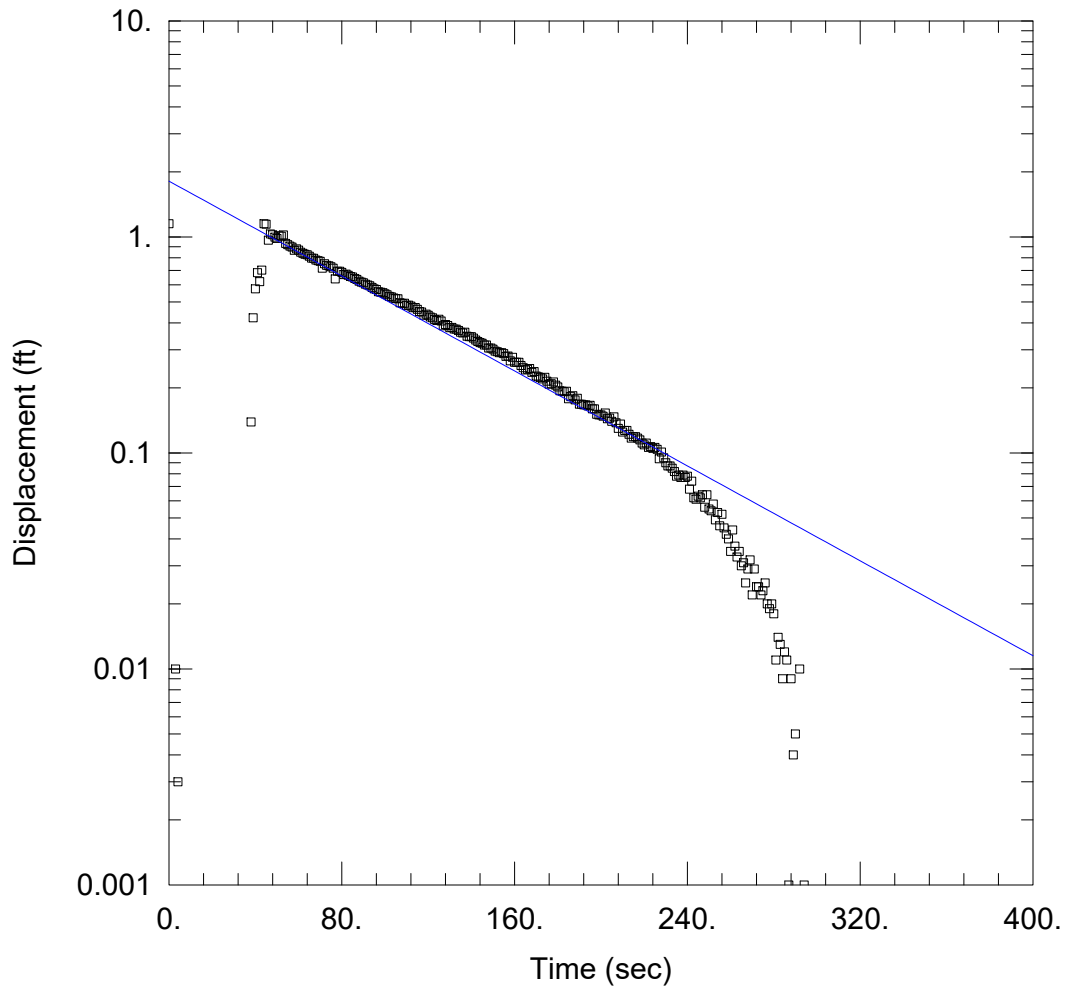
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-9S Out2)

Initial Displacement: 0.808 ft Static Water Column Height: 7. ft  
 Total Well Penetration Depth: 26. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 1.735E-5 ft/sec y0 = 0.1869 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12 In.aqt  
 Date: 10/03/18 Time: 07:40:05

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12 In  
 Test Date: 9/14/18

### AQUIFER DATA

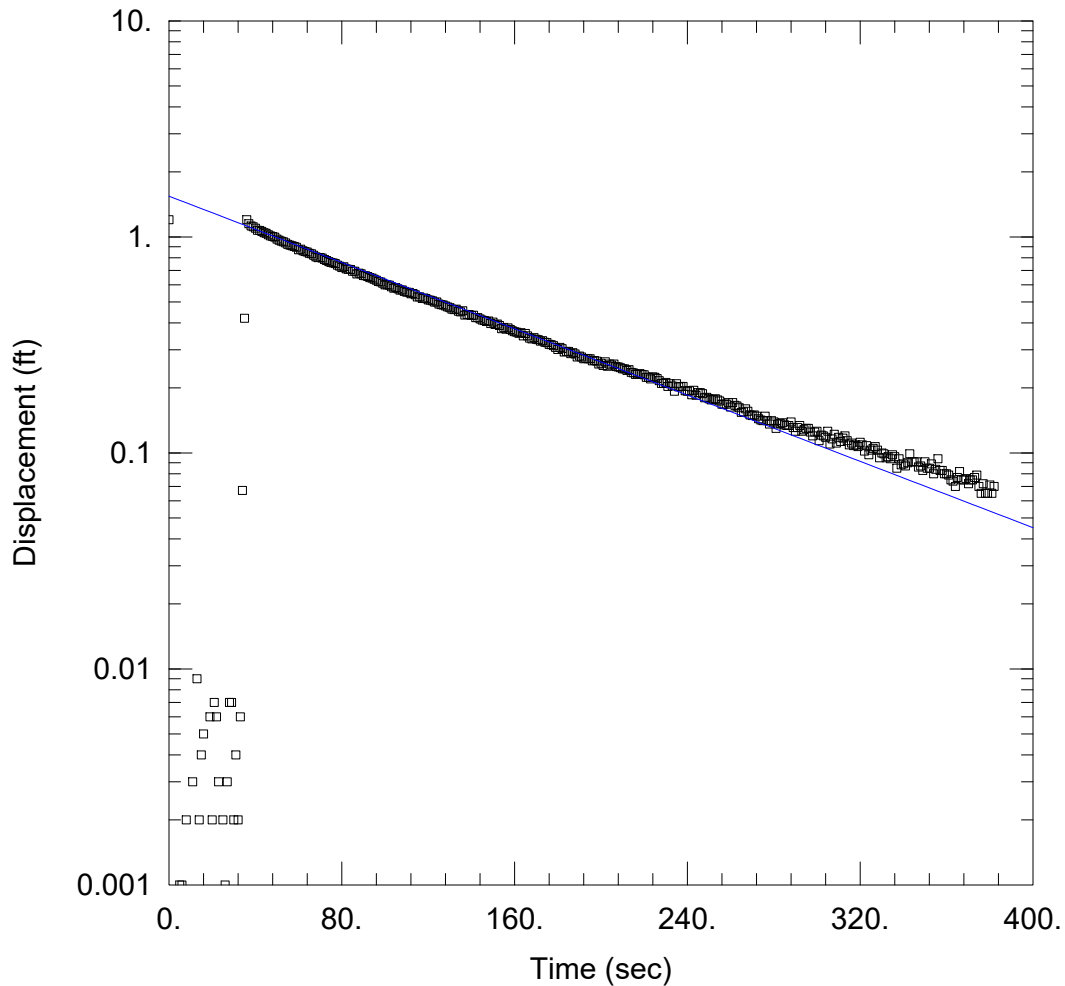
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-12 In)

Initial Displacement: 1.151 ft Static Water Column Height: 20. ft  
 Total Well Penetration Depth: 45. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.743E-5 ft/sec y0 = 1.812 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12 Out.aqt  
 Date: 10/11/18 Time: 09:24:17

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12 Out  
 Test Date: 9/14/18

### AQUIFER DATA

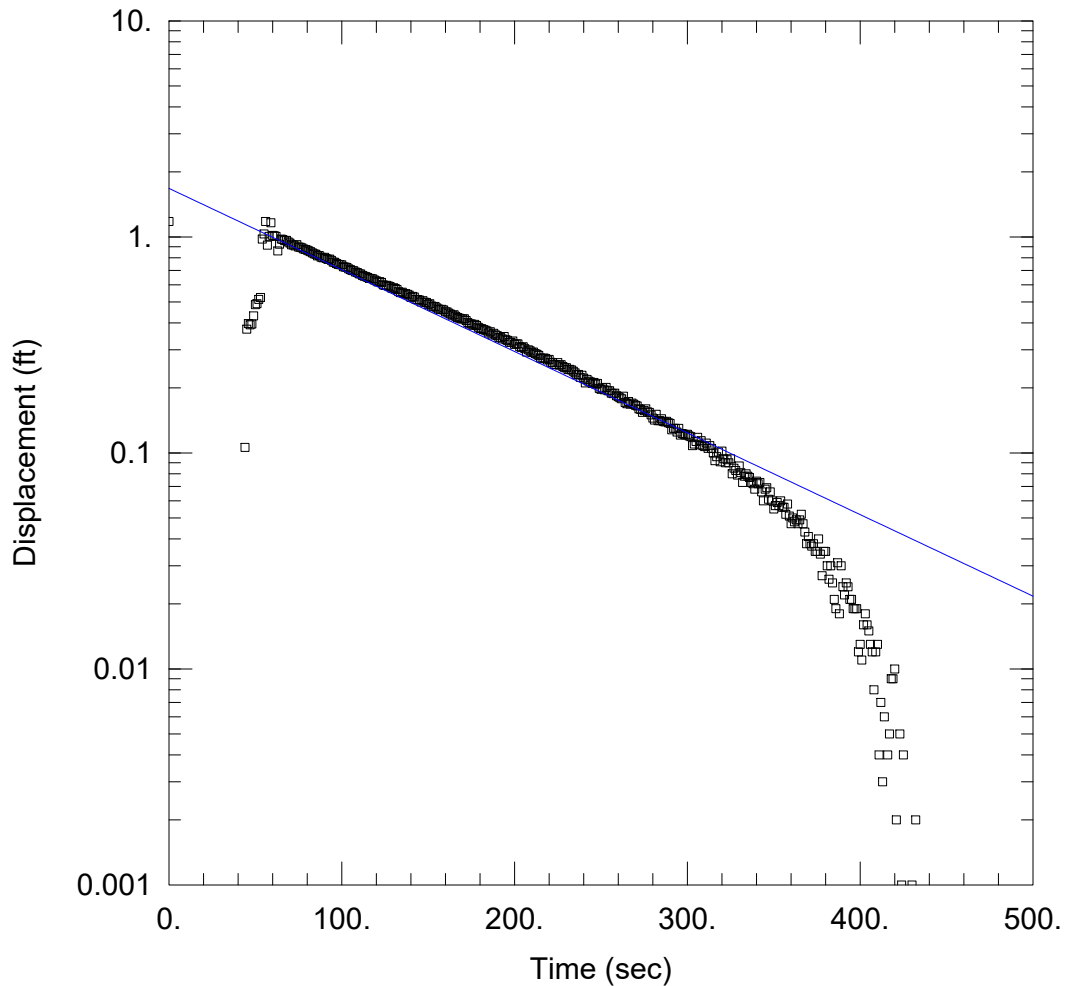
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-12 Out)

Initial Displacement: 1.201 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.192E-5 ft/sec y0 = 1.544 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12D In.aqt  
 Date: 10/03/18 Time: 07:44:24

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12D In  
 Test Date: 9/14/18

AQUIFER DATA

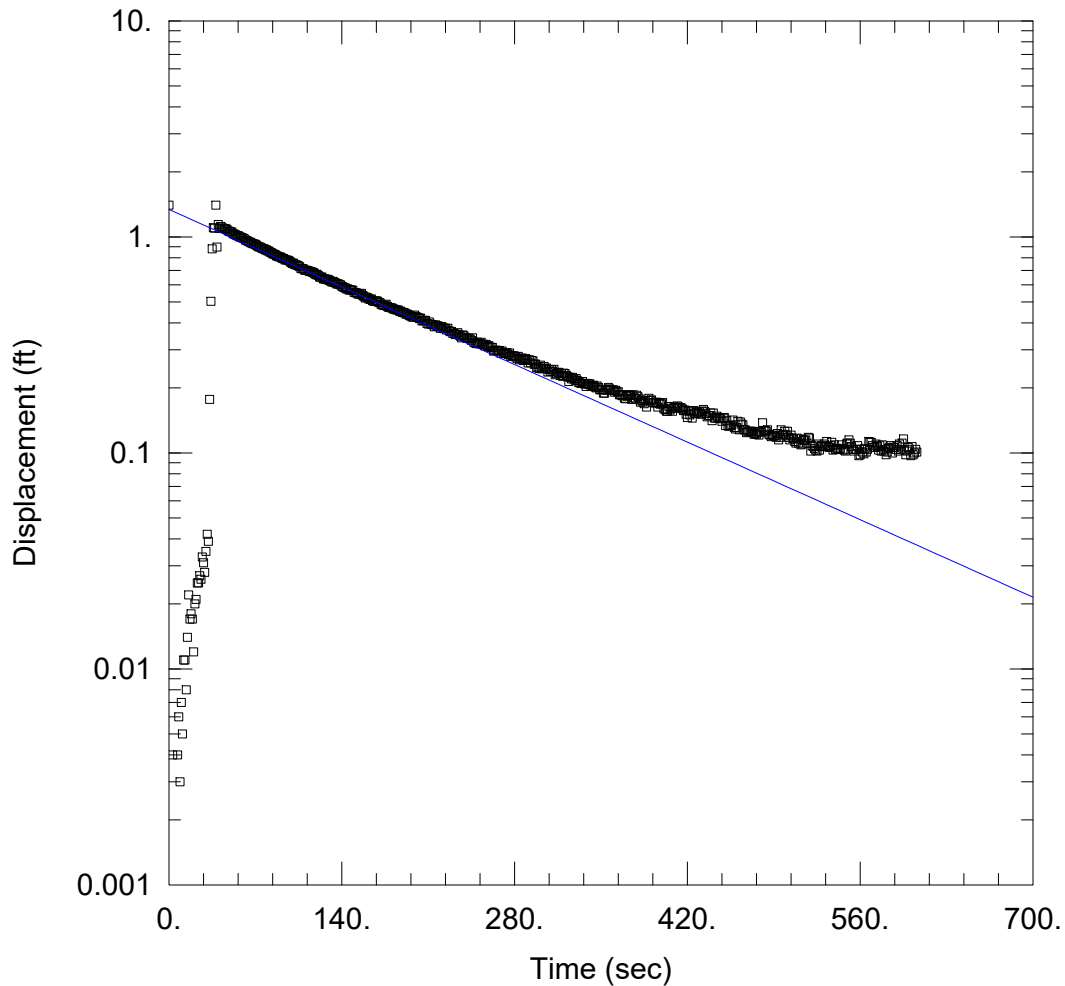
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-12D In)

Initial Displacement: 1.179 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 86.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 2.878E-5 ft/sec y0 = 1.677 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12D In2.aqt  
 Date: 10/03/18 Time: 07:51:32

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12D In2  
 Test Date: 9/14/18

AQUIFER DATA

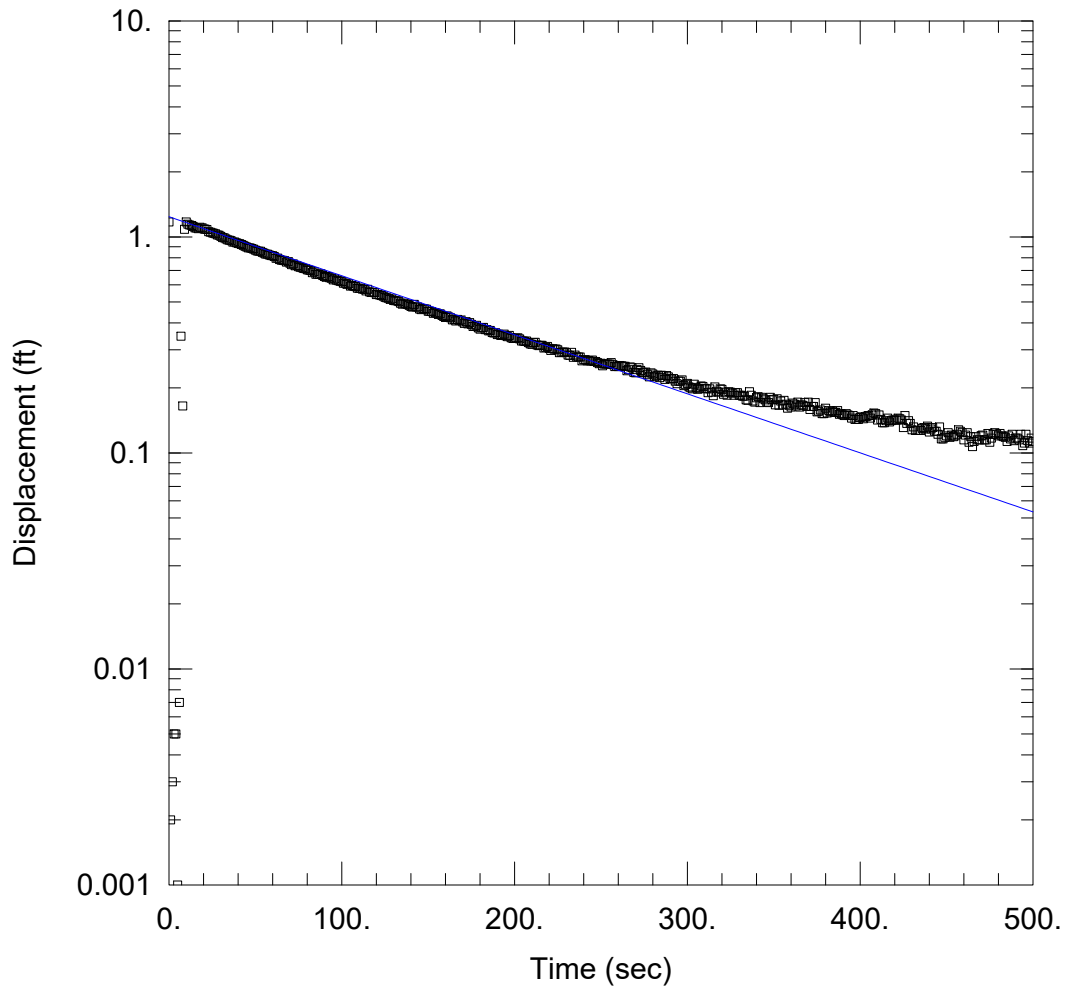
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-12D In2)

Initial Displacement: 1.404 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 86.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 1.955E-5 ft/sec y0 = 1.34 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12D Out.aqt  
 Date: 10/03/18 Time: 07:48:28

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12D Out  
 Test Date: 9/14/18

AQUIFER DATA

Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

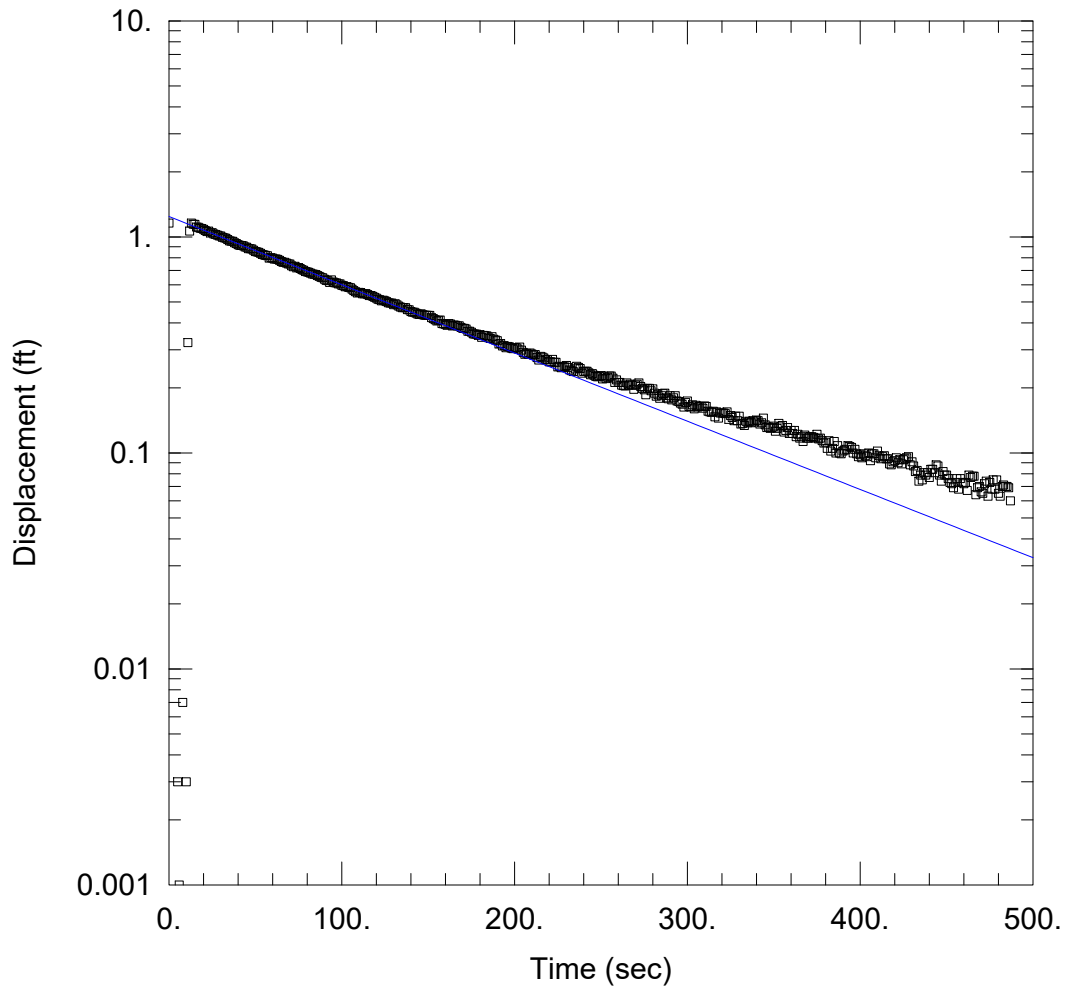
WELL DATA (MW-12D Out)

Initial Displacement: 1.172 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 86.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 2.084E-5 ft/sec y0 = 1.24 ft





WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-12D Out2.aqt  
 Date: 10/03/18 Time: 07:54:38

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-12D Out2  
 Test Date: 9/14/18

AQUIFER DATA

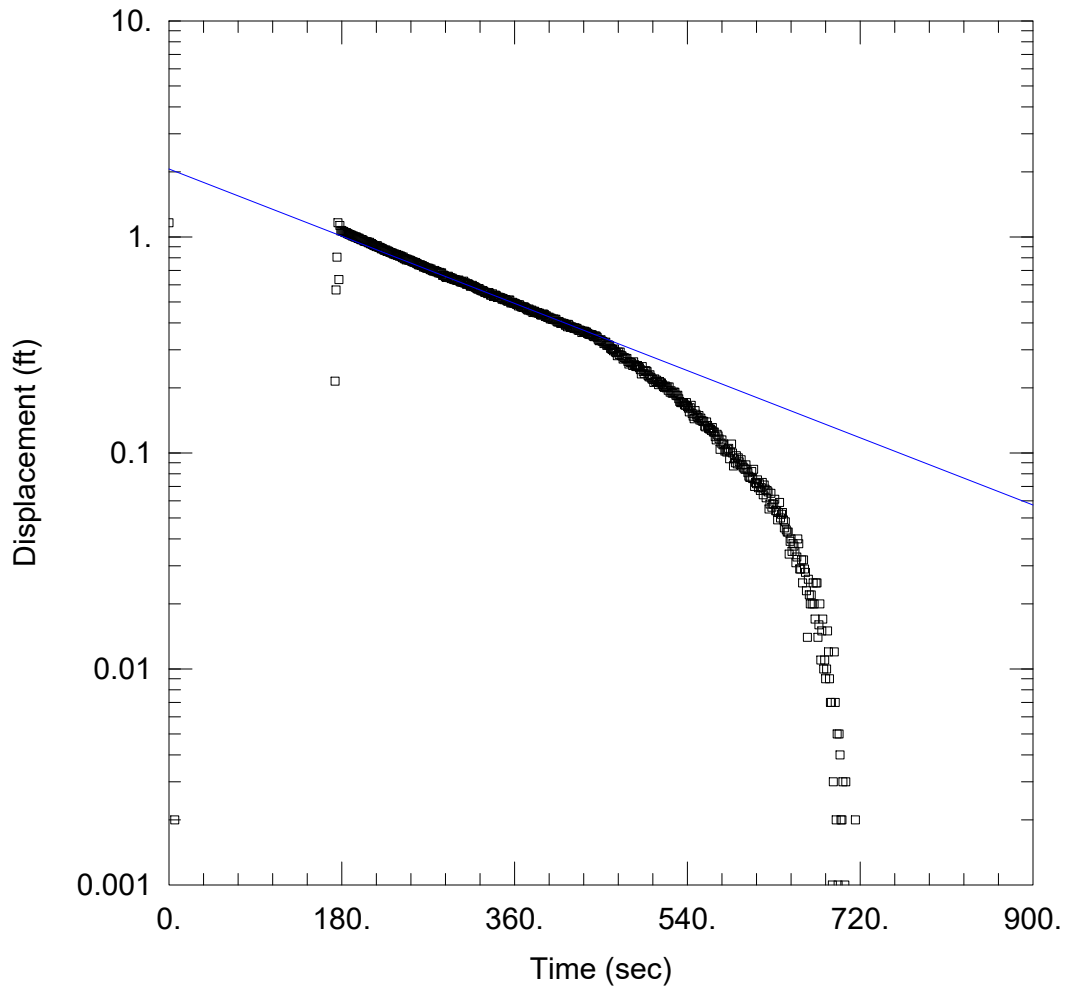
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-12D Out2)

Initial Displacement: 1.159 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 86.5 ft Screen Length: 5. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 2.409E-5 ft/sec y0 = 1.243 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-15D In.aqt  
 Date: 10/03/18 Time: 08:06:11

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-15D In  
 Test Date: 9/13/18

AQUIFER DATA

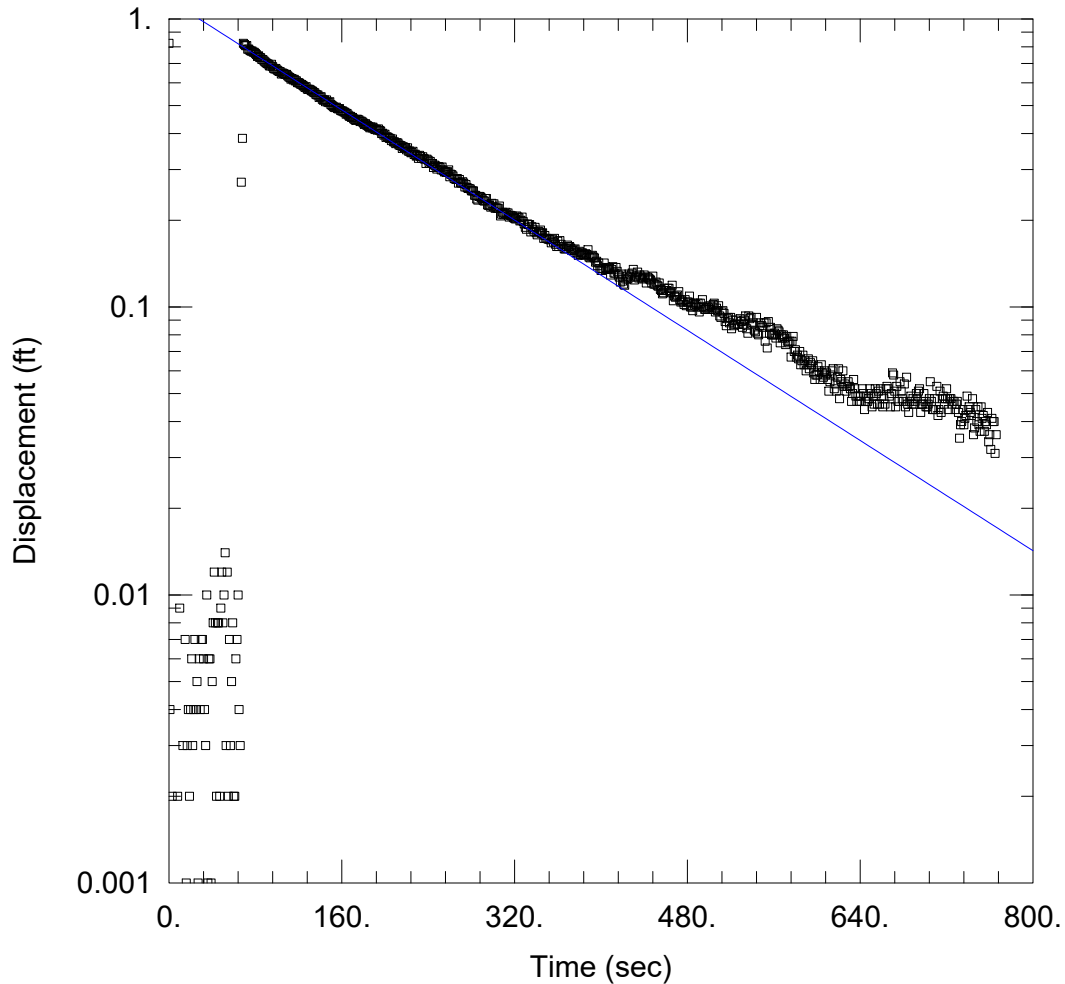
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15D In)

Initial Displacement: 1.162 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 84. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 6.854E-6 ft/sec y0 = 2.064 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-15D In2.aqt  
 Date: 10/03/18 Time: 08:13:20

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-15D In2  
 Test Date: 9/13/18

### AQUIFER DATA

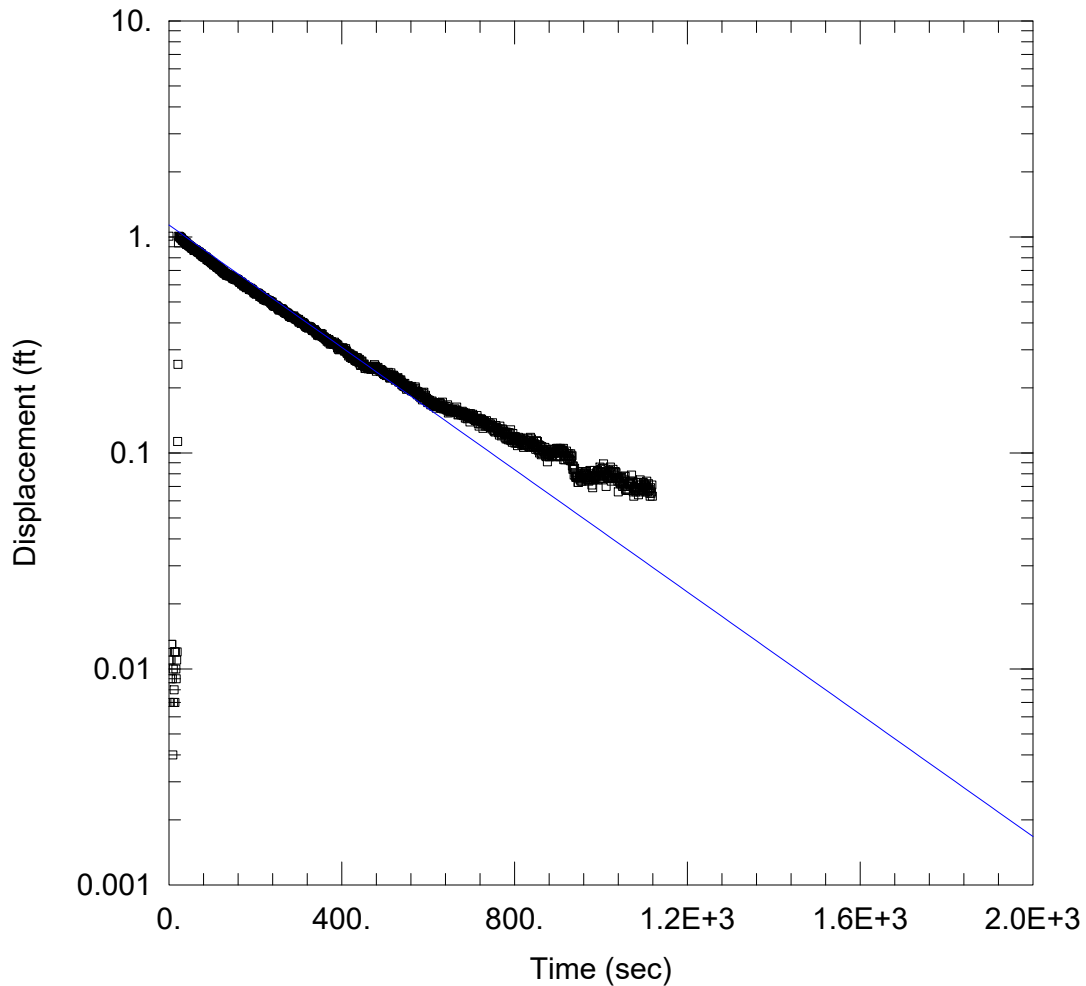
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-15D In2)

Initial Displacement: 0.823 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 84. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 9.482E-6 ft/sec y0 = 1.166 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-15D Out.aqt  
 Date: 10/03/18 Time: 08:09:33

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-15D Out  
 Test Date: 9/13/18

AQUIFER DATA

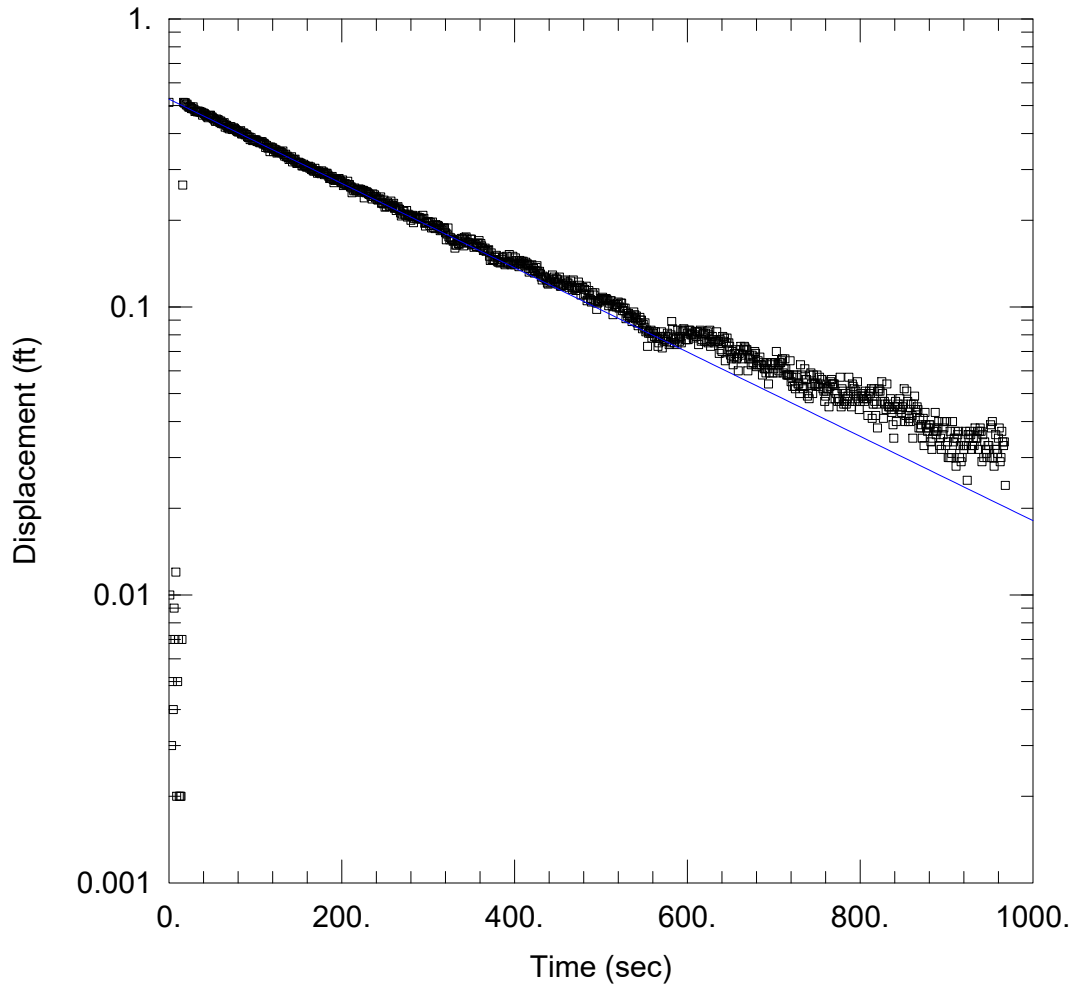
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15D Out)

Initial Displacement: 1.008 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 84. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 5.613E-6 ft/sec y0 = 1.135 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-15D Out2.aqt  
 Date: 10/03/18 Time: 08:16:52

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-15D Out2  
 Test Date: 9/13/18

### AQUIFER DATA

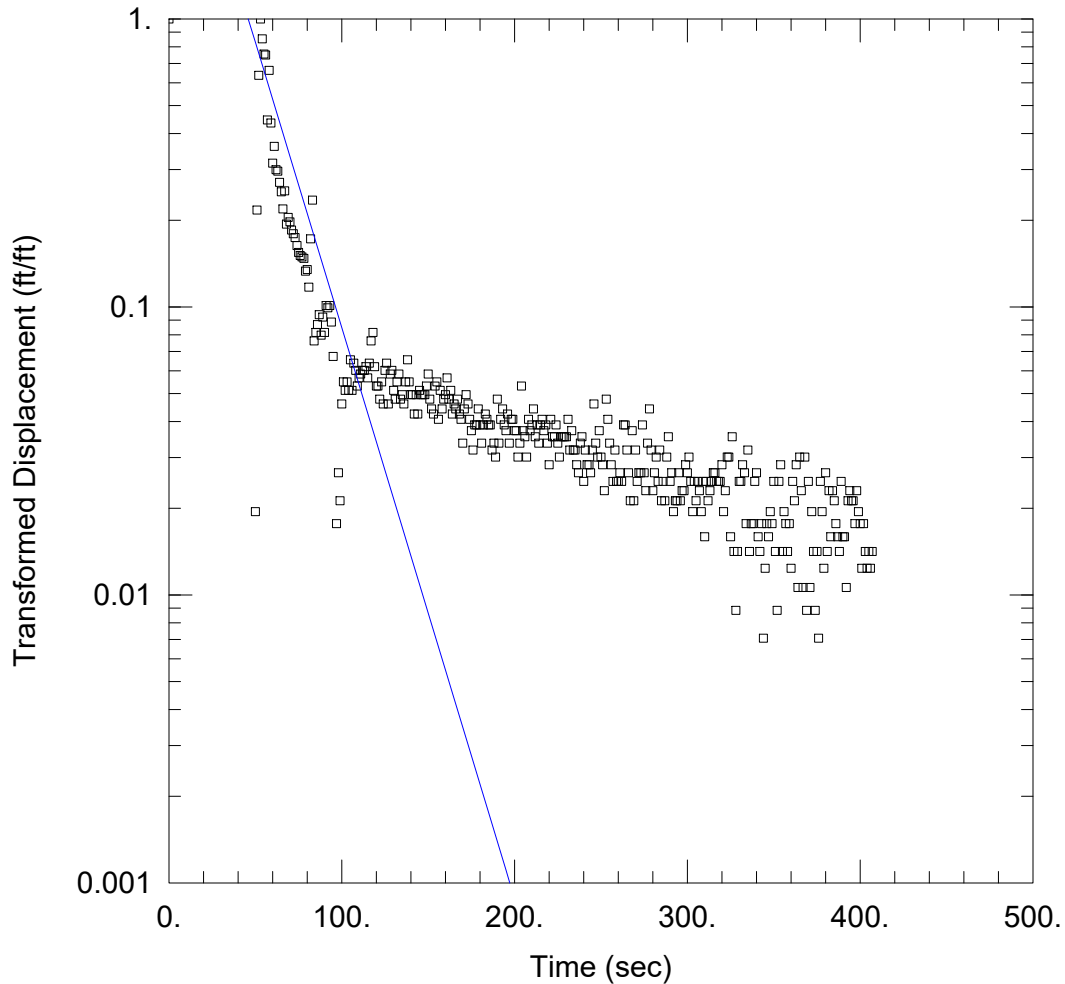
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-15D Out)

Initial Displacement: 0.513 ft Static Water Column Height: 65. ft  
 Total Well Penetration Depth: 66. ft Screen Length: 1. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 4.153E-5 ft/sec y0 = 0.5267 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-17 In.aqt  
 Date: 10/03/18 Time: 08:22:20

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-17 In  
 Test Date: 9/13/18

AQUIFER DATA

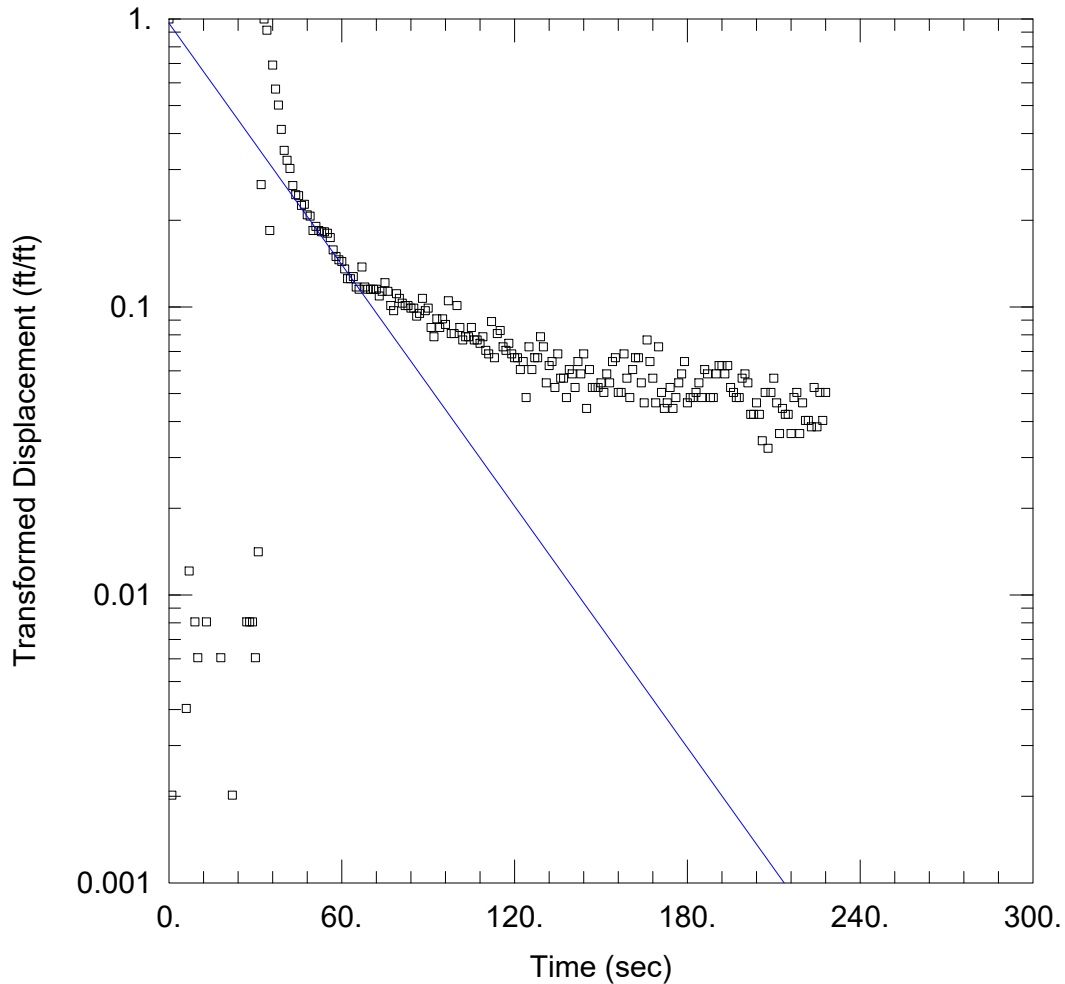
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17 In)

Initial Displacement: 0.55 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 10. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 6.226E-5 ft/sec y0 = 3.738 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-17 In2.aqt  
 Date: 10/03/18 Time: 11:06:48

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-17 In2  
 Test Date: 9/13/18

### AQUIFER DATA

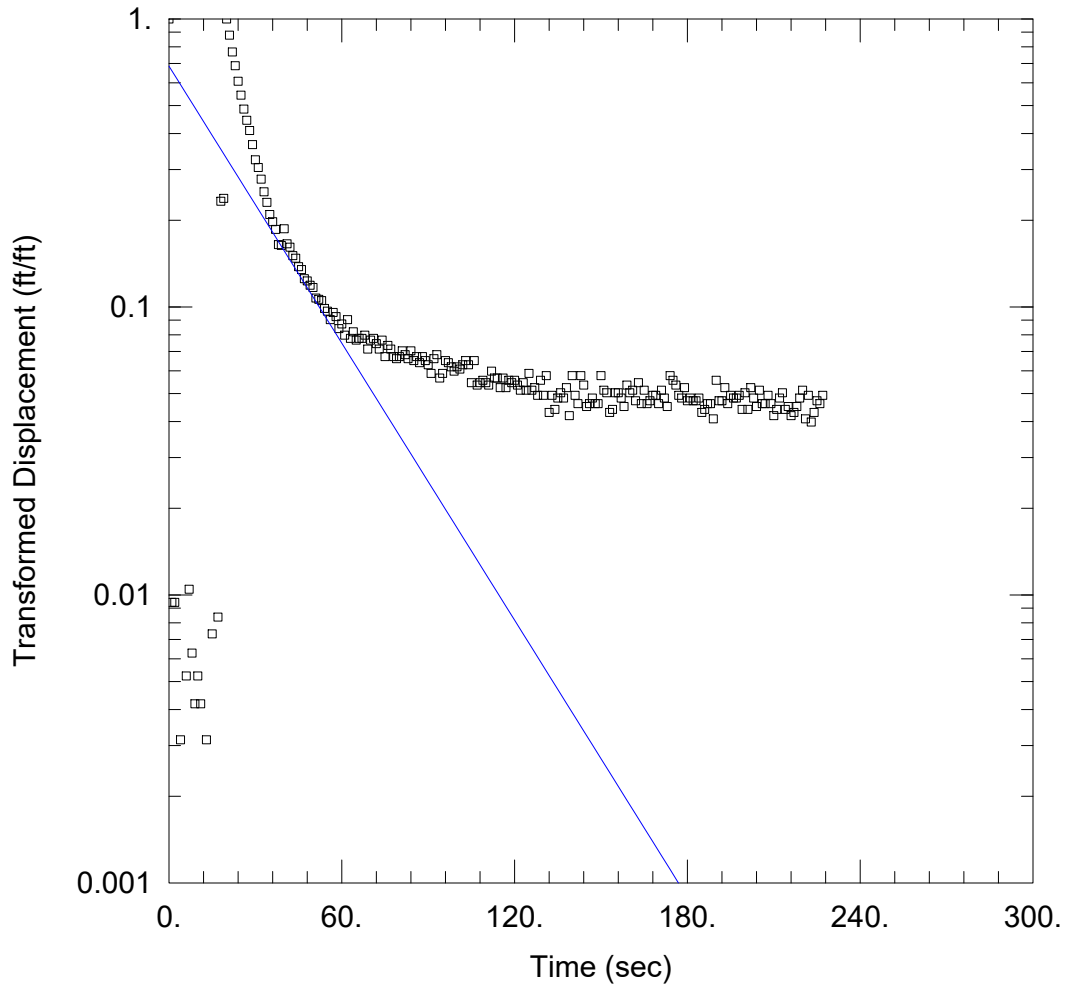
Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-17 In2)

Initial Displacement: 0.484 ft Static Water Column Height: 45. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 4.39E-5 ft/sec y0 = 0.4678 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-17 Out 2.aqt  
 Date: 10/03/18 Time: 12:42:07

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-17 Out 2  
 Test Date: 9/13/18

AQUIFER DATA

Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

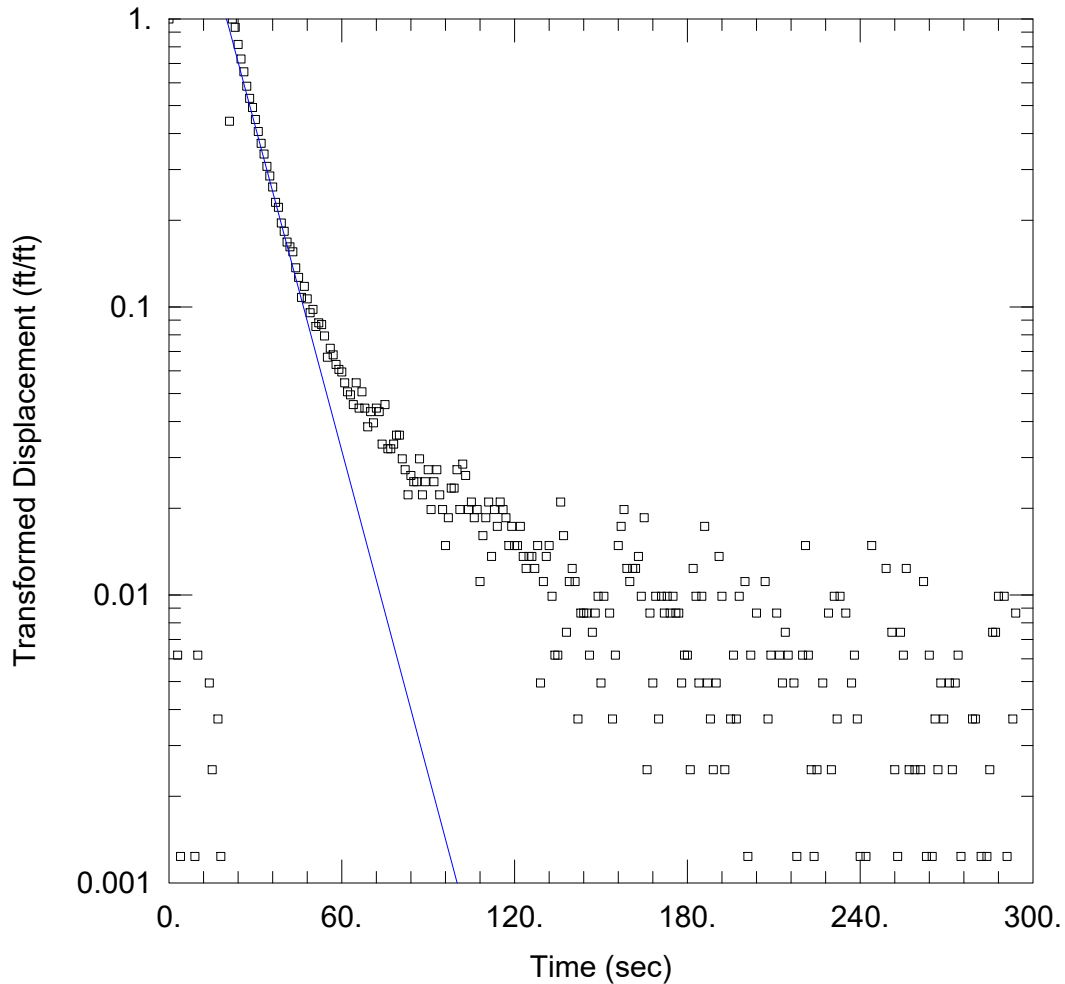
WELL DATA (MW-17 Out 2)

Initial Displacement: 0.912 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 10. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.83 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 2.287E-5 ft/sec y0 = 0.6343 ft





WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-17 Out.aqt  
 Date: 10/03/18 Time: 09:11:00

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-17 Out  
 Test Date: 9/13/18

AQUIFER DATA

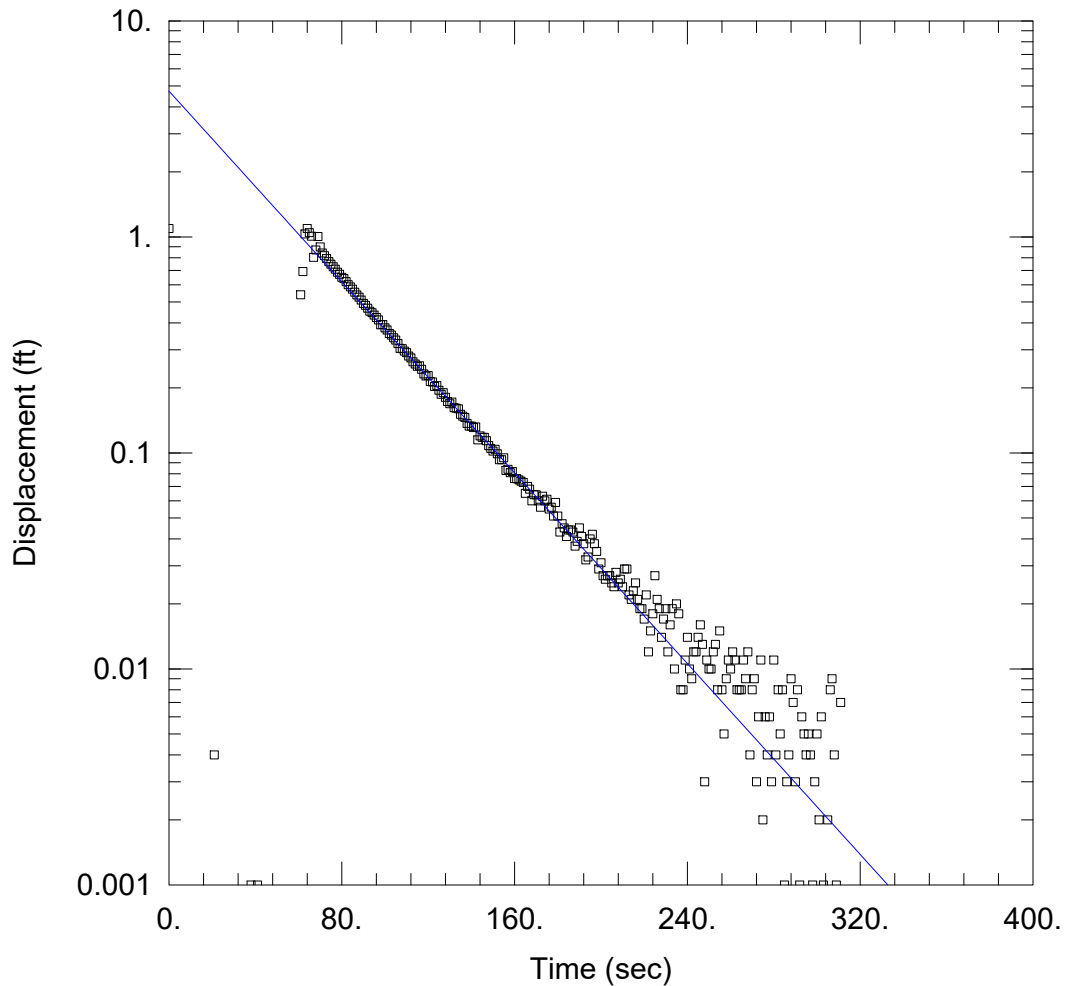
Saturated Thickness: 65. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17 Out)

Initial Displacement: 0.778 ft Static Water Column Height: 7. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan  
 K = 0.0001177 ft/sec y0 = 3.702 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21 In 2.aqt  
 Date: 10/03/18 Time: 12:53:33

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21 In 2  
 Test Date: 9/13/18

AQUIFER DATA

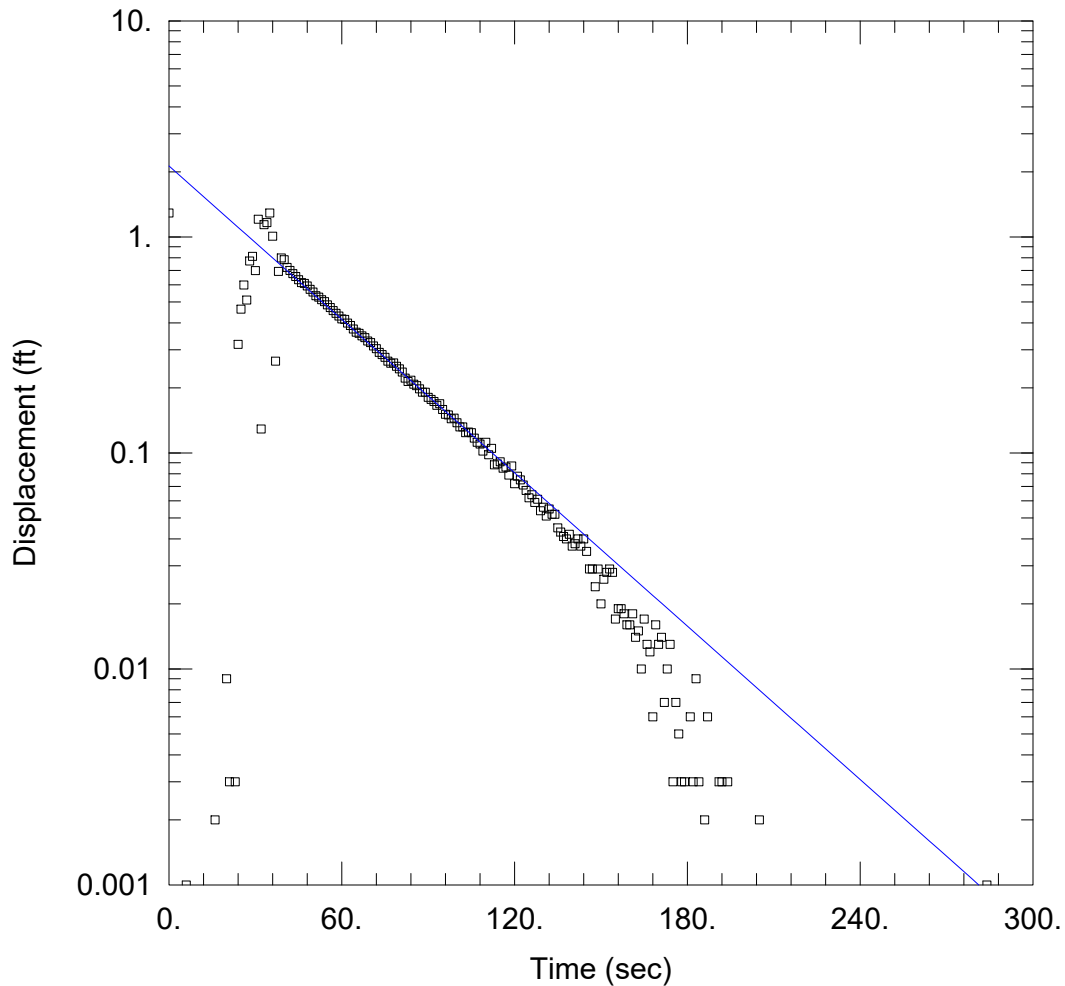
Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21 In 2)

Initial Displacement: 1.093 ft Static Water Column Height: 45. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 3.136E-5 ft/sec y0 = 4.732 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21 In.aqt  
 Date: 10/03/18 Time: 12:46:34

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21 In  
 Test Date: 9/13/18

AQUIFER DATA

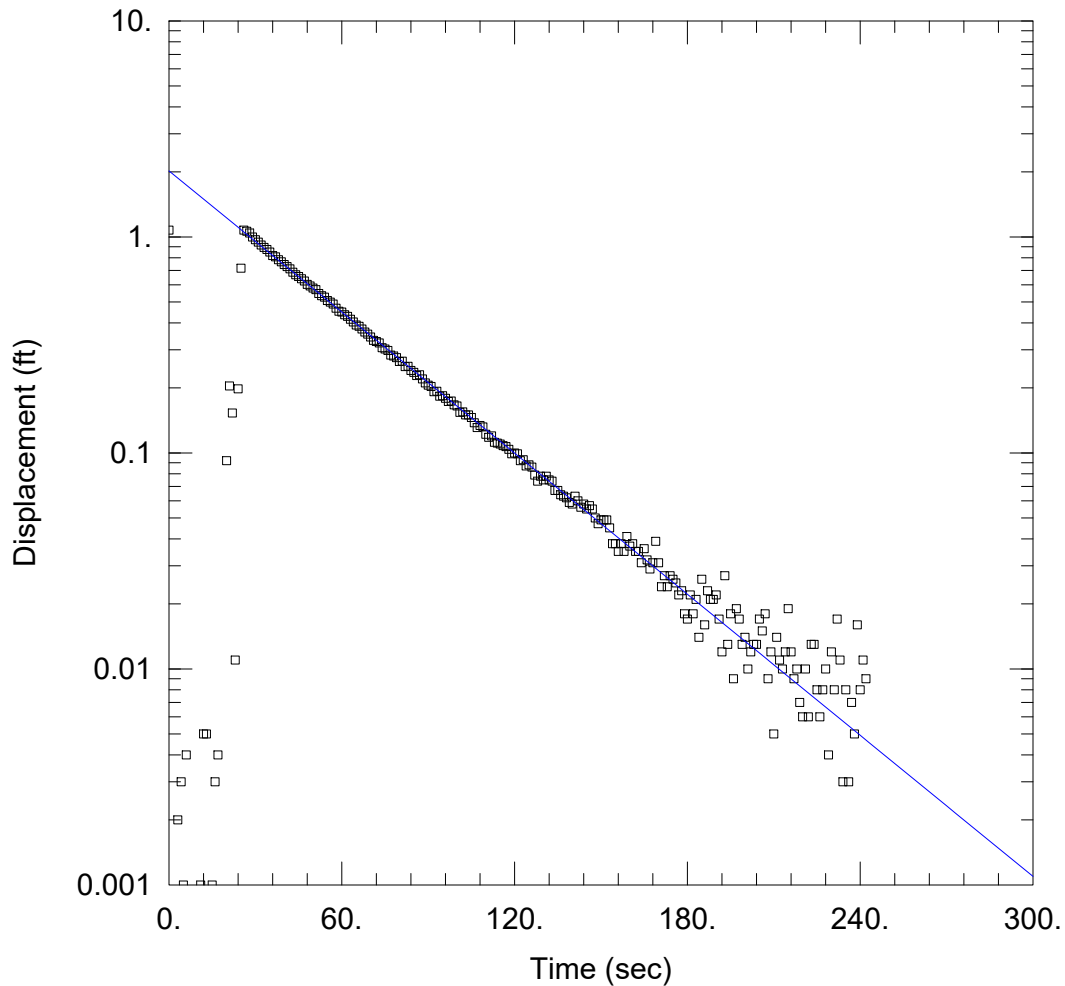
Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21 In)

Initial Displacement: 1.291 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 3.379E-5 ft/sec y0 = 2.131 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21 Out.aqt  
 Date: 10/03/18 Time: 12:49:50

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21 Out  
 Test Date: 9/13/18

AQUIFER DATA

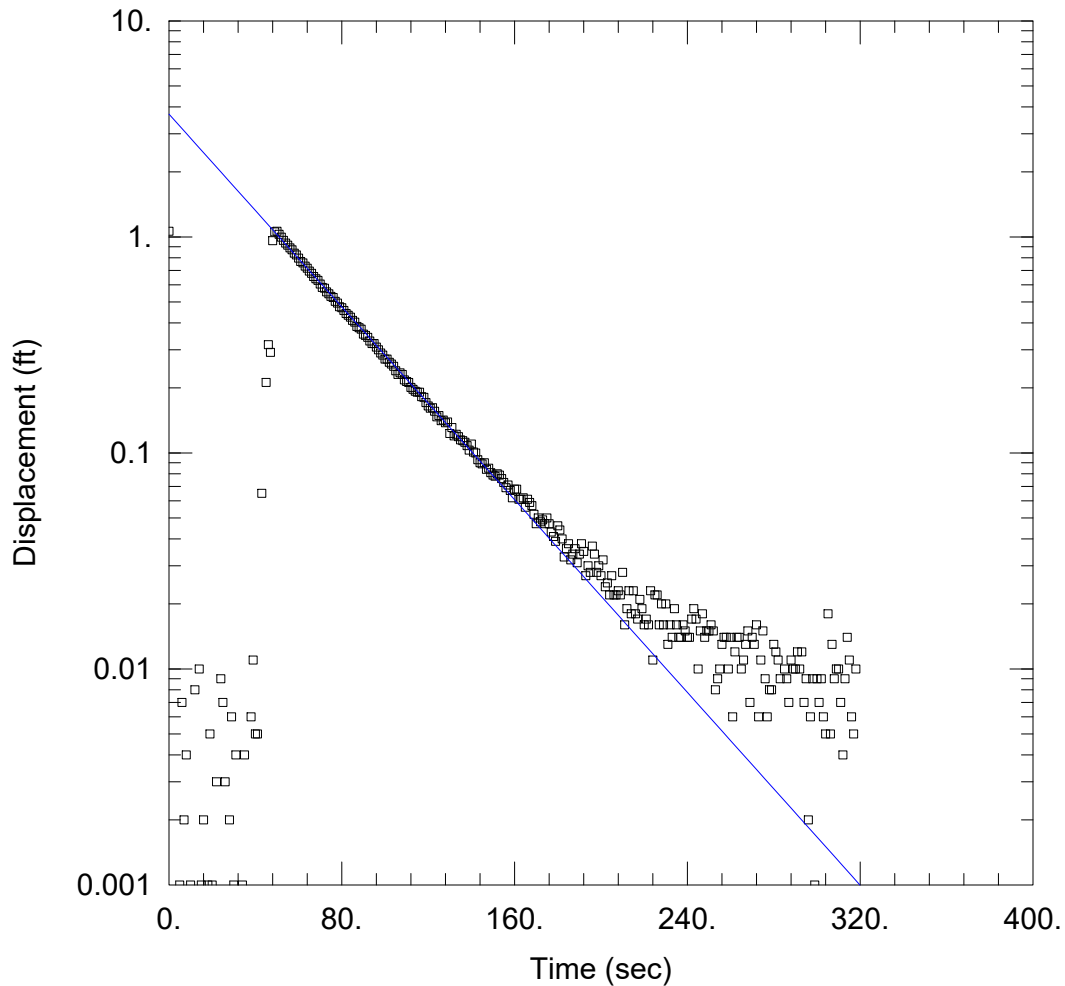
Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21 Out)

Initial Displacement: 1.075 ft Static Water Column Height: 45. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 3.092E-5 ft/sec y0 = 2.022 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21 Out2.aqt  
 Date: 10/03/18 Time: 13:00:13

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21 Out 2  
 Test Date: 9/13/18

AQUIFER DATA

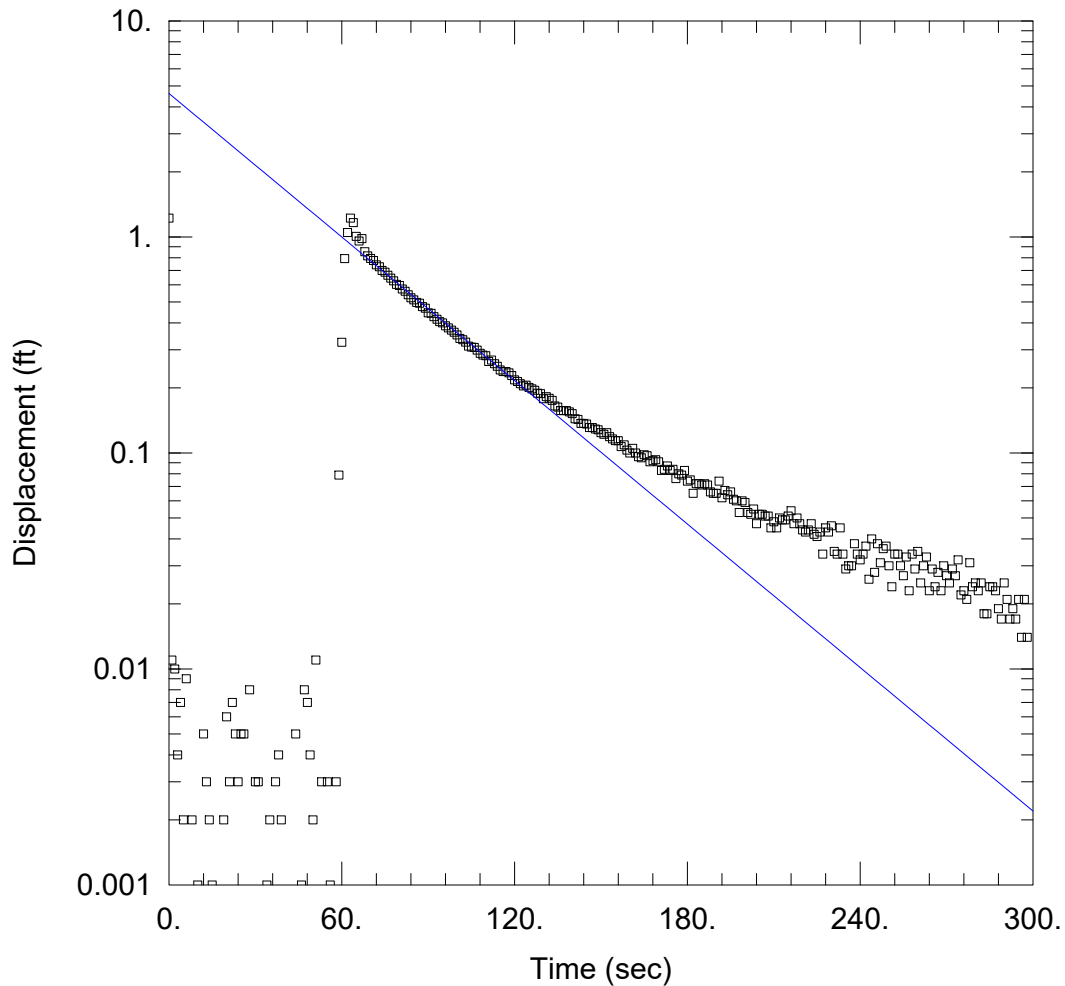
Saturated Thickness: 45. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21 Out2)

Initial Displacement: 1.063 ft Static Water Column Height: 45. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 3.168E-5 ft/sec y0 = 3.704 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21D In.aqt  
 Date: 10/03/18 Time: 11:15:49

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21D In  
 Test Date: 9/13/18

### AQUIFER DATA

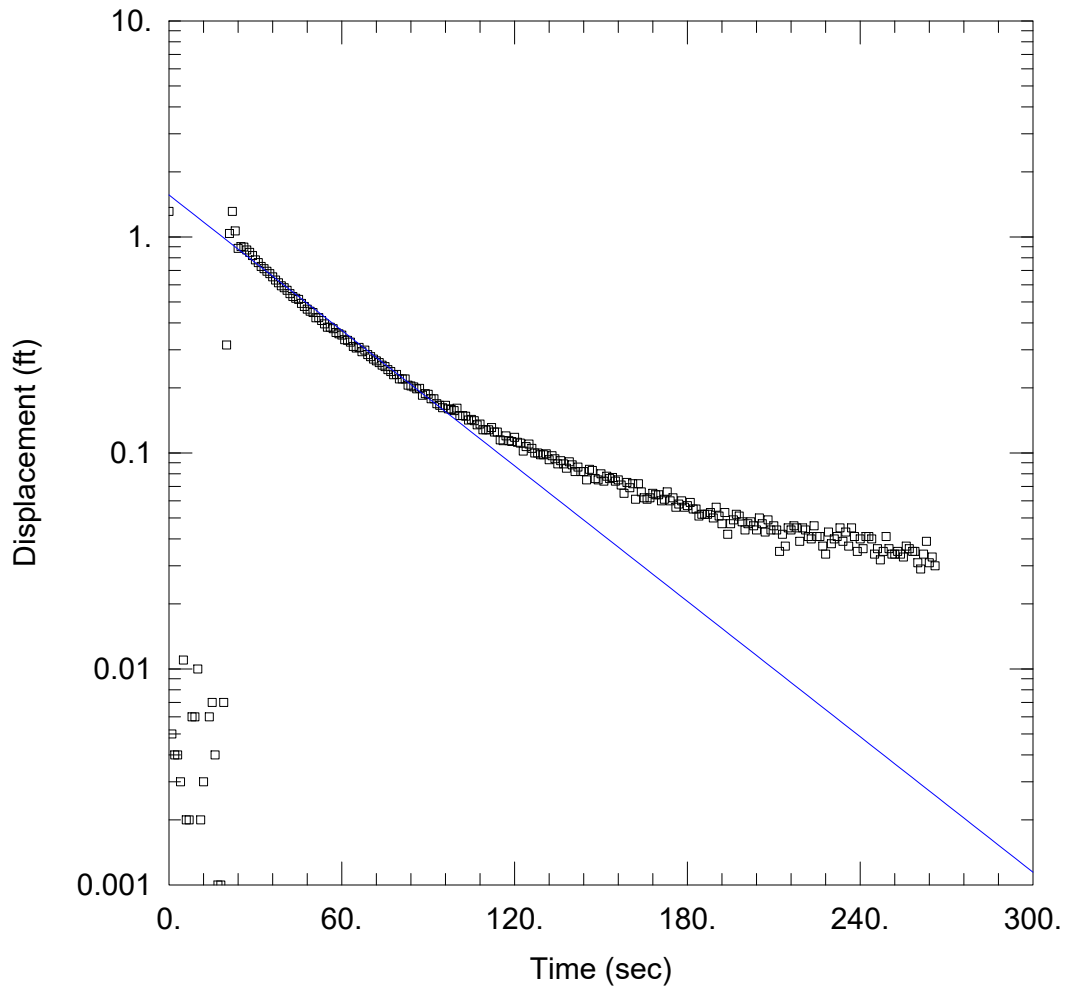
Saturated Thickness: 39. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-21D In)

Initial Displacement: 1.221 ft Static Water Column Height: 39. ft  
 Total Well Penetration Depth: 39. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 3.995E-5 ft/sec y0 = 4.613 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21D In2.aqt  
 Date: 10/03/18 Time: 13:56:56

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21D In 2  
 Test Date: 9/13/18

AQUIFER DATA

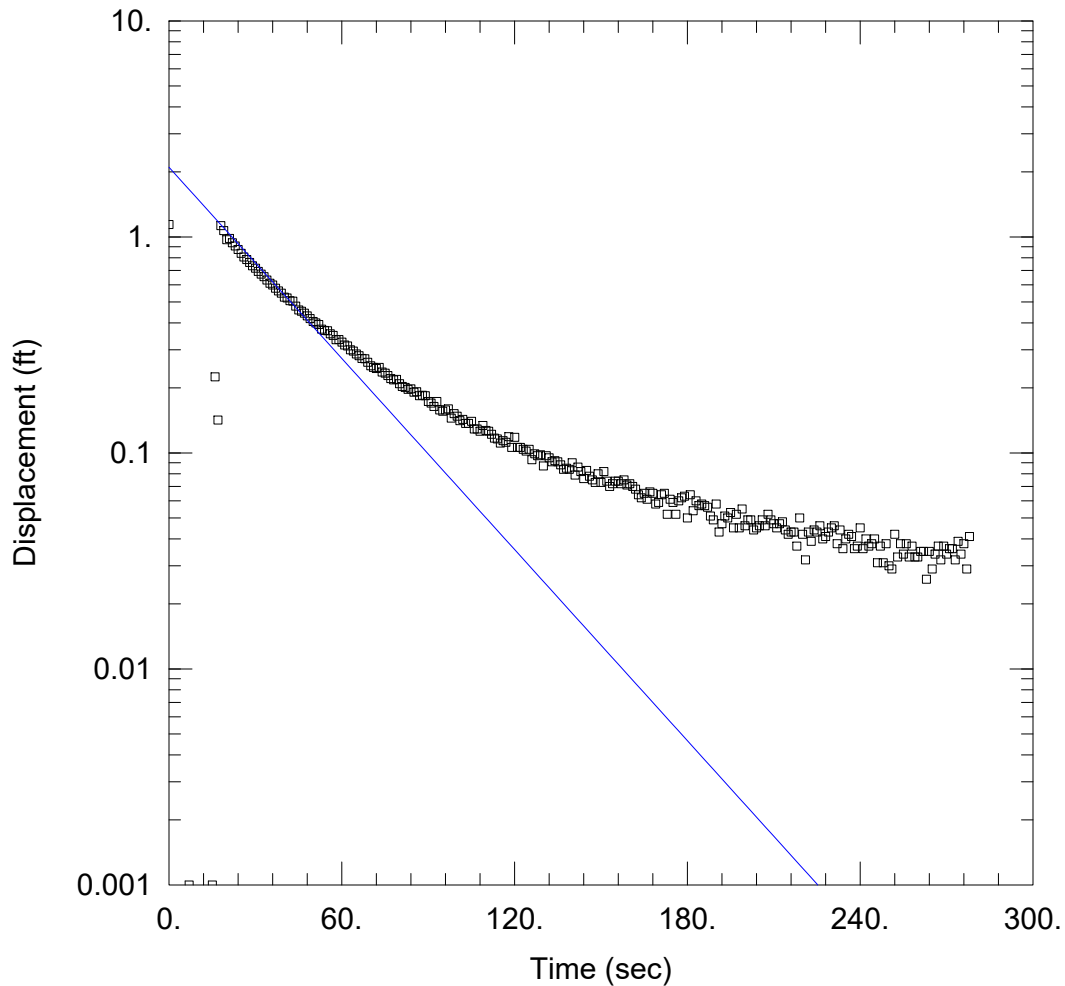
Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21D In 2)

Initial Displacement: 1.313 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 3.783E-5 ft/sec y0 = 1.564 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21D Out.aqt  
 Date: 10/03/18 Time: 14:01:17

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21D Out  
 Test Date: 9/13/18

AQUIFER DATA

Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

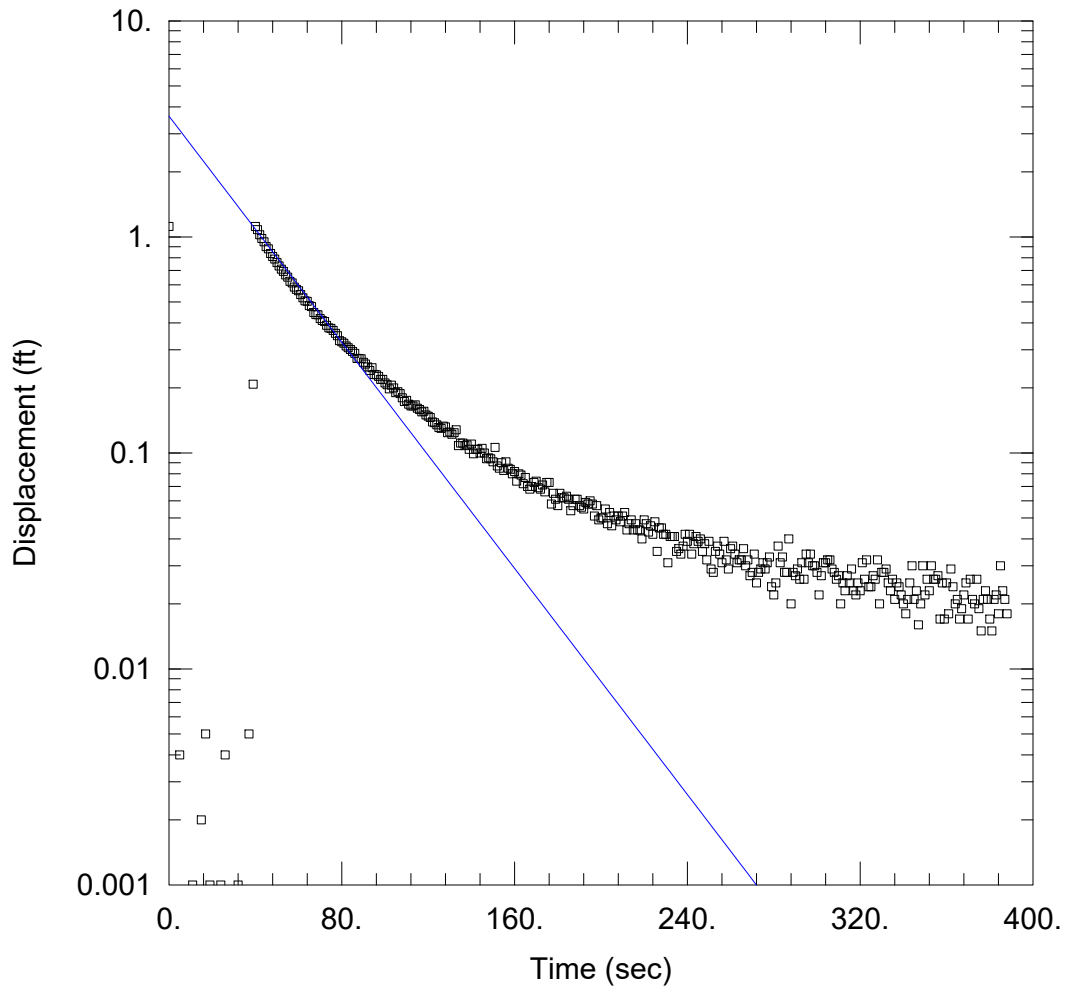
WELL DATA (MW-21D Out)

Initial Displacement: 1.142 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 5.338E-5 ft/sec y0 = 2.101 ft





### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-21D Out2.aqt  
 Date: 10/03/18 Time: 13:56:29

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-21D Out 2  
 Test Date: 9/13/18

### AQUIFER DATA

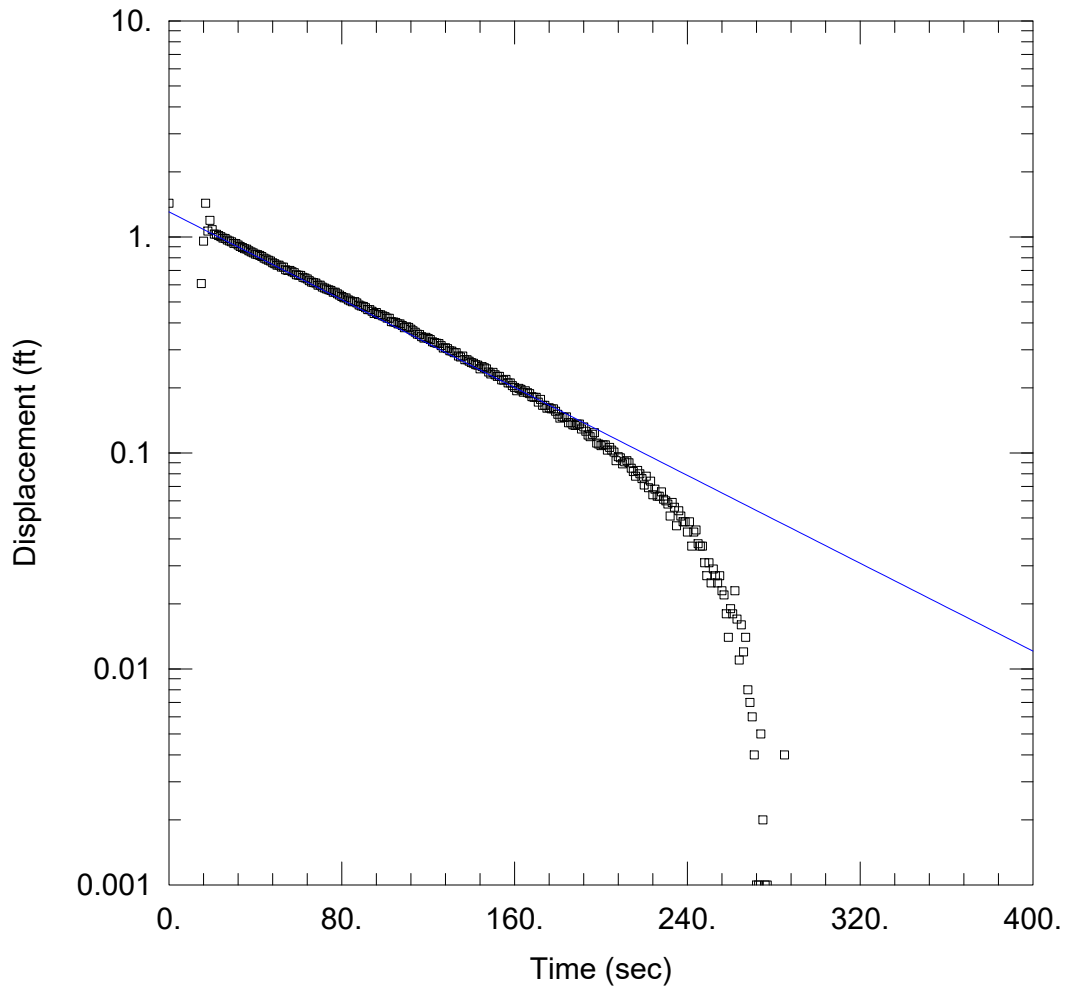
Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-21D Out2)

Initial Displacement: 1.118 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 4.737E-5 ft/sec y0 = 3.624 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-22 In.aqt  
 Date: 10/11/18 Time: 10:11:10

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-22 In  
 Test Date: 9/14/18

### AQUIFER DATA

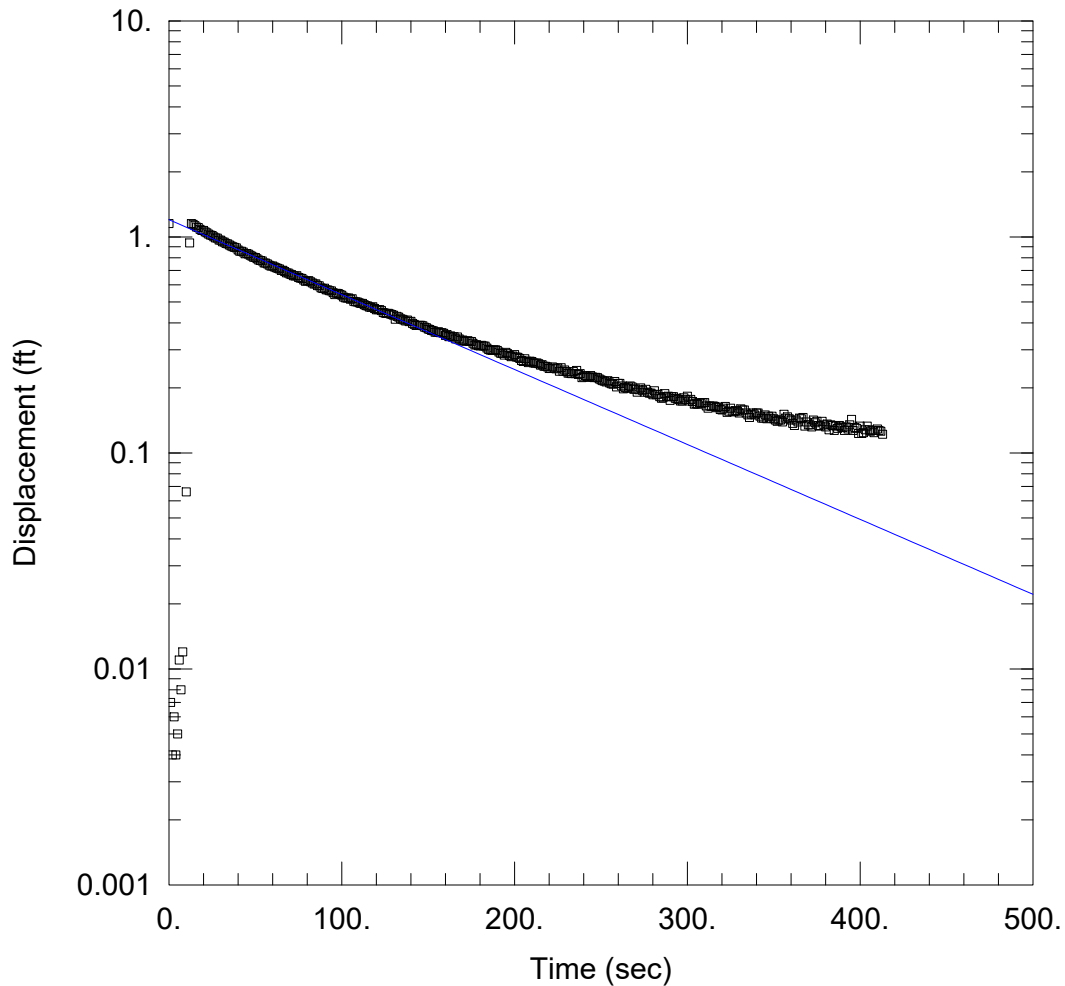
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-22 In)

Initial Displacement: 1.431 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.434E-5 ft/sec y0 = 1.306 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-22 Out.aqt  
 Date: 10/11/18 Time: 10:13:32

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-22 Out  
 Test Date: 9/14/18

AQUIFER DATA

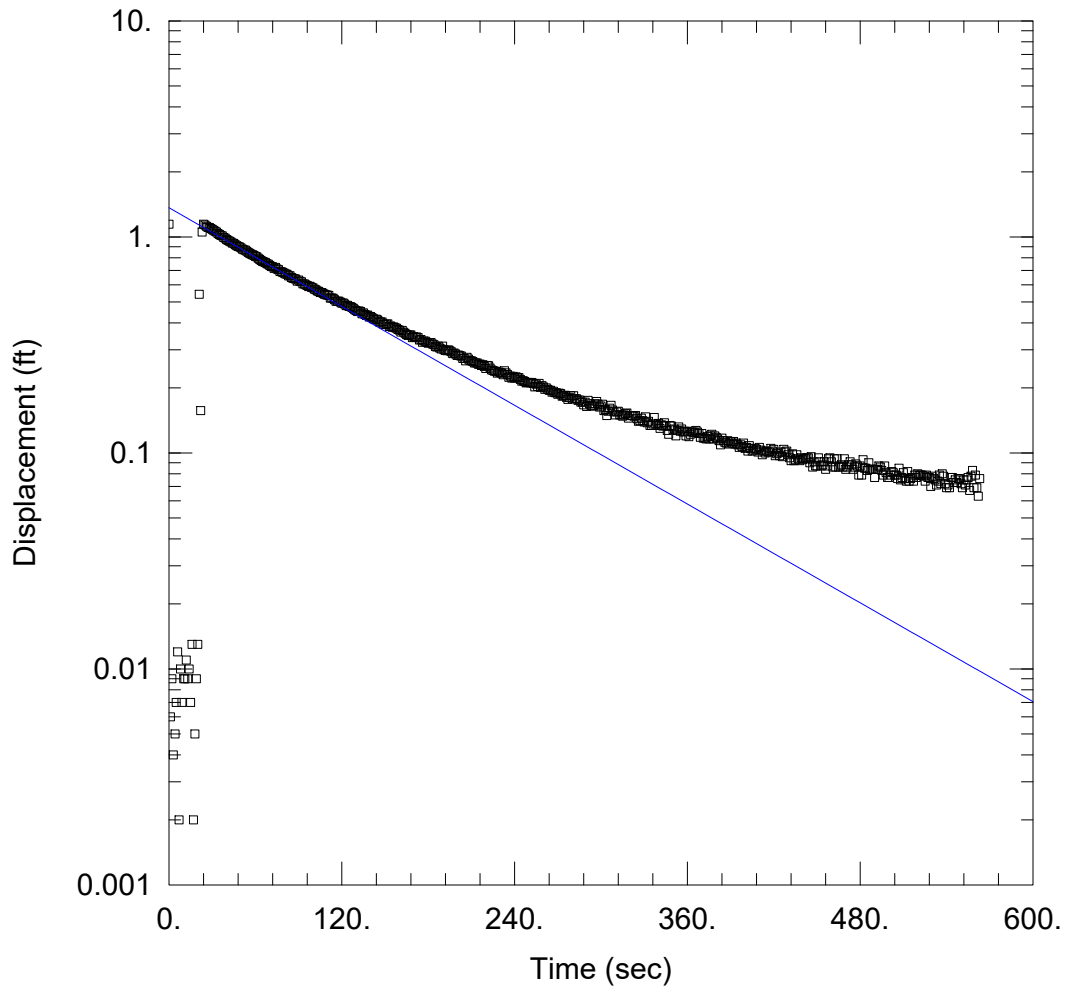
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (New Well)

Initial Displacement: 1.153 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 9.783E-6 ft/sec y0 = 1.202 ft



WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-22 Out2.aqt  
 Date: 10/11/18 Time: 10:18:50

PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-22 Out2  
 Test Date: 9/14/18

AQUIFER DATA

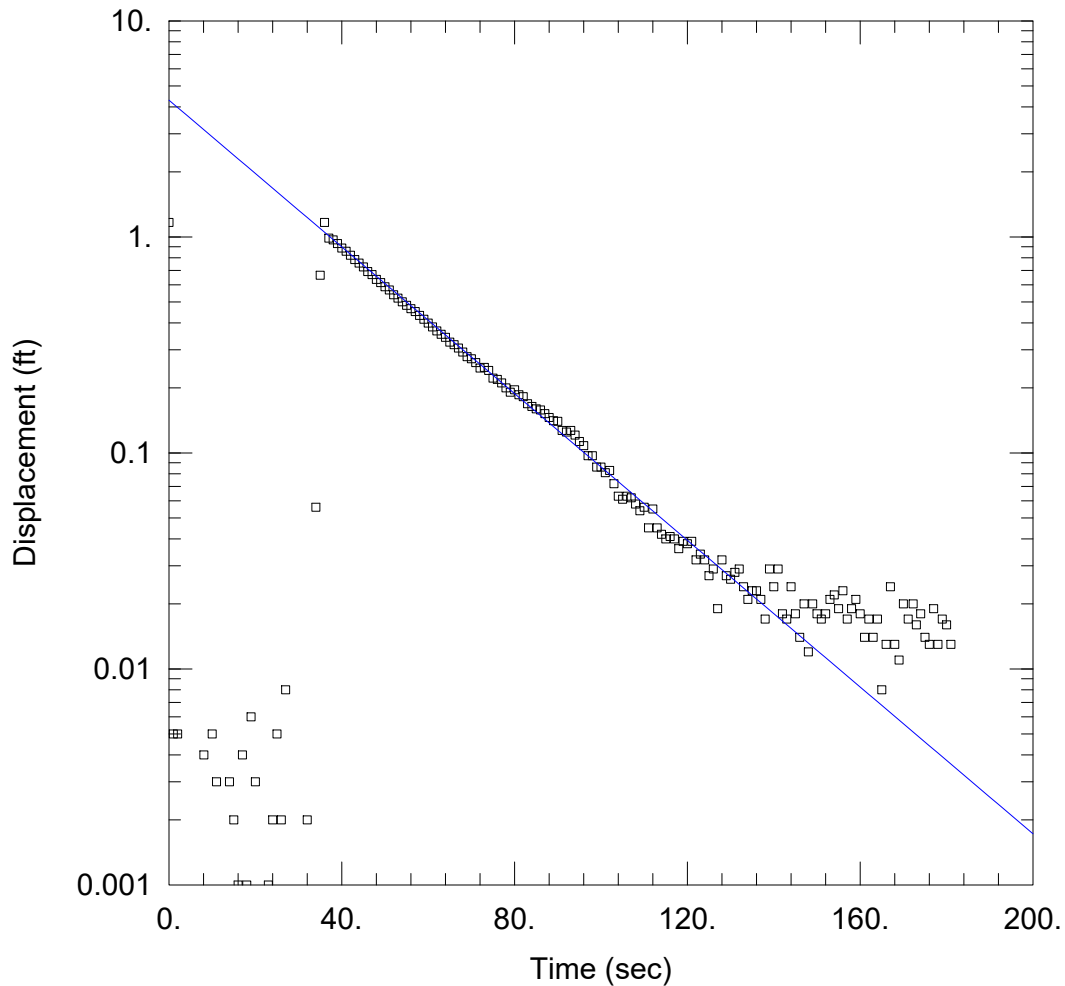
Saturated Thickness: 60. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-22 Out2)

Initial Displacement: 1.145 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 20. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 1.074E-5 ft/sec y0 = 1.364 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-23 In2.aqt  
 Date: 10/03/18 Time: 14:06:29

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-23 In2  
 Test Date: 9/13/18

### AQUIFER DATA

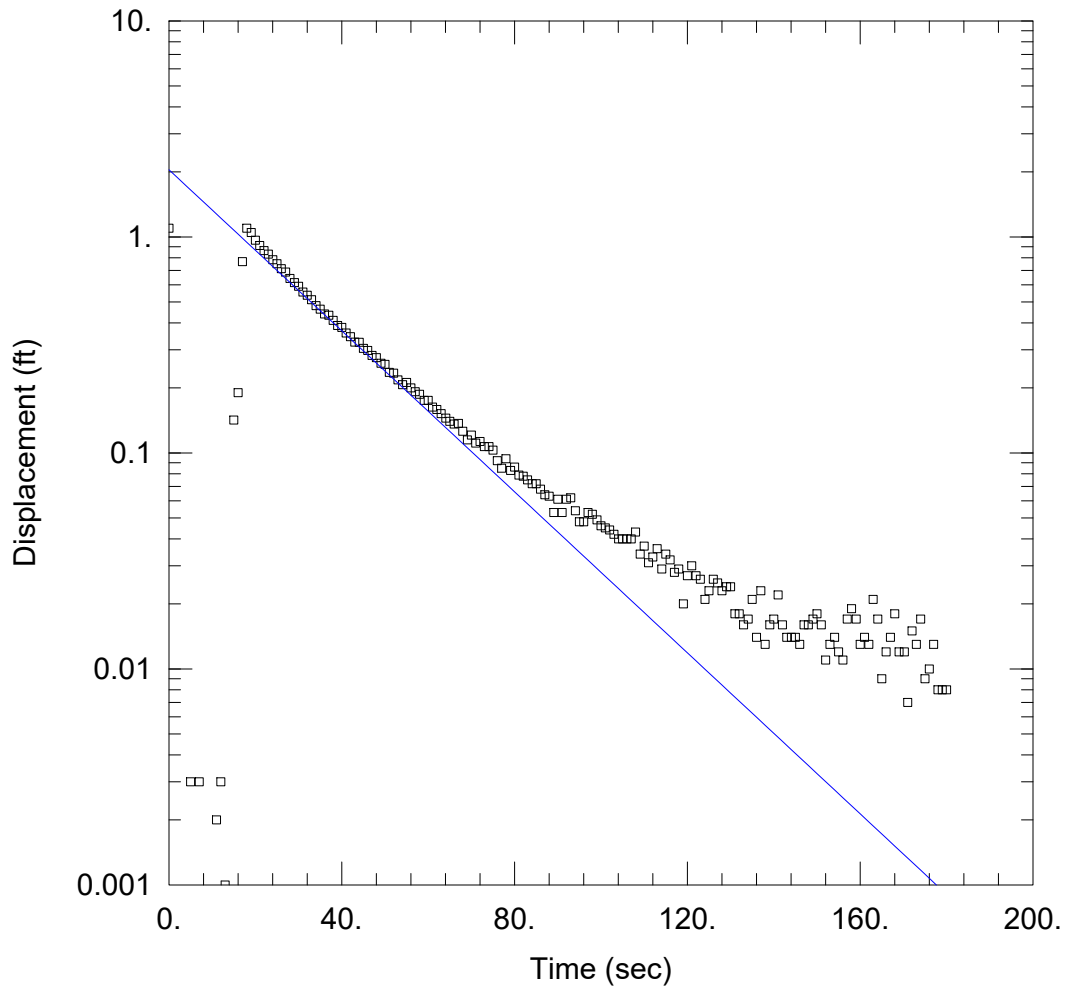
Saturated Thickness: 40. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-23 In2)

Initial Displacement: 1.167 ft Static Water Column Height: 40. ft  
 Total Well Penetration Depth: 25. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice  
 K = 5.025E-5 ft/sec y0 = 4.297 ft



### WELL TEST ANALYSIS

Data Set: C:\Program Files (x86)\HydroSOLVE\AQTESOLV Pro 4.0\MW-23 Out2.aqt  
 Date: 10/11/18 Time: 09:06:30

### PROJECT INFORMATION

Company: Wenck  
 Client: Roper Pump  
 Project: B6572  
 Location: Commerce, Ga  
 Test Well: MW-23 Out2  
 Test Date: 9/13/18

### AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-23 Out2)

Initial Displacement: 1.097 ft Static Water Column Height: 60. ft  
 Total Well Penetration Depth: 40. ft Screen Length: 10. ft  
 Casing Radius: 0.083 ft Well Radius: 0.083 ft

### SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 6.745E-5 ft/sec y0 = 2.046 ft

### Laboratory Analytical Reports

(To reduce the size of the paper copy, the laboratory analytical reports are provided with the electronic copy of the report)

August 02, 2018

Katie Ross  
WENCK Associates  
1080 Holcomb Bridge Rd.  
Roswell, GA 30076

RE: Project: Roper/GA 6572-0001  
Pace Project No.: 267576

Dear Katie Ross:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Eben Buchanan  
eben.buchanan@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Mark Padgett, WENCK Associates  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
267576001	MW-19	Water	07/24/18 09:20	07/26/18 12:42
267576002	MW-3	Water	07/24/18 10:20	07/26/18 12:42
267576003	MW-21D	Water	07/24/18 11:30	07/26/18 12:42
267576004	MW-12D	Water	07/24/18 13:05	07/26/18 12:42
267576005	MW-6D	Water	07/24/18 15:35	07/26/18 12:42
267576006	MW-4I	Water	07/24/18 16:55	07/26/18 12:42
267576007	MW-20	Water	07/24/18 10:00	07/26/18 12:42
267576008	MW-6	Water	07/24/18 11:50	07/26/18 12:42
267576009	MW-9S	Water	07/24/18 13:35	07/26/18 12:42
267576010	MW-9D	Water	07/24/18 16:10	07/26/18 12:42
267576011	MW-6DS	Water	07/24/18 18:35	07/26/18 12:42
267576012	Dup-1	Water	07/25/18 00:00	07/26/18 12:42
267576013	MW-8	Water	07/25/18 08:15	07/26/18 12:42
267576014	MW-16	Water	07/25/18 09:30	07/26/18 12:42
267576015	MW-23	Water	07/25/18 12:00	07/26/18 12:42
267576016	MW-17	Water	07/25/18 11:00	07/26/18 12:42
267576017	MW-15D	Water	07/25/18 12:15	07/26/18 12:42
267576018	MW-21	Water	07/25/18 14:50	07/26/18 12:42
267576019	MW-13D	Water	07/25/18 13:35	07/26/18 12:42
267576020	MW-12	Water	07/25/18 15:35	07/26/18 12:42
267576021	MW-7	Water	07/25/18 15:50	07/26/18 12:42
267576022	Dup-2	Water	07/25/18 00:00	07/26/18 12:42
267576023	MW-13	Water	07/26/18 09:25	07/26/18 12:42
267576024	MW-22	Water	07/26/18 10:20	07/26/18 12:42
267576025	MW-11	Water	07/25/18 09:45	07/26/18 12:42
267576026	Trip Blank	Water	07/24/18 00:00	07/26/18 12:42

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Lab ID	Sample ID	Method	Analysts	Analytes Reported
267576001	MW-19	EPA 8260B	JHG	64
267576002	MW-3	EPA 8260B	JHG	64
267576003	MW-21D	EPA 8260B	JHG	64
267576004	MW-12D	EPA 8260B	JHG	64
267576005	MW-6D	EPA 8260B	JHG	64
267576006	MW-4I	EPA 8260B	JHG	64
267576007	MW-20	EPA 8260B	JHG	64
267576008	MW-6	EPA 8260B	JHG	64
267576009	MW-9S	EPA 8260B	JHG	64
267576010	MW-9D	EPA 8260B	JHG	64
267576011	MW-6DS	EPA 8260B	JHG	64
267576012	Dup-1	EPA 8260B	JHG	64
267576013	MW-8	EPA 8260B	JHG	64
267576014	MW-16	EPA 8260B	JHG	64
267576015	MW-23	EPA 8260B	JHG	64
267576016	MW-17	EPA 8260B	JHG	64
267576017	MW-15D	EPA 8260B	JHG	64
267576018	MW-21	EPA 8260B	JHG	64
267576019	MW-13D	EPA 8260B	JHG	64
267576020	MW-12	EPA 8260B	JHG	64
267576021	MW-7	EPA 8260B	JHG	64
267576022	Dup-2	EPA 8260B	JHG	64
267576023	MW-13	EPA 8260B	JHG	64
267576024	MW-22	EPA 8260B	JHG	64
267576025	MW-11	EPA 8260B	JHG	64
267576026	Trip Blank	EPA 8260B	JHG	64

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-19	Lab ID: 267576001	Collected: 07/24/18 09:20	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 20:50	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 20:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 20:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 20:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 20:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 20:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 20:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 20:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 20:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 20:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 20:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 20:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 20:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 20:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 20:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 20:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 20:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 20:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 20:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 20:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 20:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 20:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 20:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 20:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 20:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 20:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 20:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 20:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 20:50	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 20:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 20:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 20:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 20:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 20:50	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 20:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 20:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 20:50	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 20:50	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 20:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/18 20:50	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-19		Lab ID: 267576001		Collected: 07/24/18 09:20		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 20:50	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 20:50	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 20:50	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 20:50	79-00-5		
Trichloroethene	<b>2.7</b>	ug/L	1.0	1		07/27/18 20:50	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 20:50	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 20:50	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 20:50	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 20:50	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 20:50	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 20:50	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 20:50	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%.	81-119	1		07/27/18 20:50	17060-07-0		
Dibromofluoromethane (S)	95	%.	82-114	1		07/27/18 20:50	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/27/18 20:50	460-00-4		
Toluene-d8 (S)	103	%.	82-109	1		07/27/18 20:50	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-3	Lab ID: 267576002	Collected: 07/24/18 10:20	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 21:20	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 21:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 21:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 21:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 21:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 21:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 21:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 21:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 21:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 21:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 21:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 21:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 21:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 21:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 21:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 21:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 21:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 21:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 21:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:20	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 21:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 21:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 21:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 21:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 21:20	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 21:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 21:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 21:20	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 21:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 21:20	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 21:20	79-34-5	
Tetrachloroethene	8.7	ug/L	1.0	1		07/27/18 21:20	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-3		Lab ID: 267576002		Collected: 07/24/18 10:20		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 21:20	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:20	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 21:20	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 21:20	79-00-5		
Trichloroethene	<b>50.6</b>	ug/L	1.0	1		07/27/18 21:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 21:20	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 21:20	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 21:20	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 21:20	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 21:20	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 21:20	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 21:20	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/27/18 21:20	17060-07-0		
Dibromofluoromethane (S)	98	%.	82-114	1		07/27/18 21:20	1868-53-7		
4-Bromofluorobenzene (S)	94	%.	82-120	1		07/27/18 21:20	460-00-4		
Toluene-d8 (S)	104	%.	82-109	1		07/27/18 21:20	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-21D	Lab ID: 267576003	Collected: 07/24/18 11:30	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 21:50	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 21:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 21:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 21:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 21:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 21:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 21:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 21:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 21:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 21:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 21:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 21:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 21:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 21:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 21:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 21:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 21:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 21:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 21:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 21:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 21:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 21:50	75-35-4	
cis-1,2-Dichloroethene	<b>37.8</b>	ug/L	1.0	1		07/27/18 21:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 21:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 21:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 21:50	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 21:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 21:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 21:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 21:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 21:50	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 21:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>5.8</b>	ug/L	5.0	1		07/27/18 21:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 21:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 21:50	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 21:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 21:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 21:50	79-34-5	
Tetrachloroethene	<b>3.9</b>	ug/L	1.0	1		07/27/18 21:50	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-21D		Lab ID: 267576003		Collected: 07/24/18 11:30		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 21:50	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 21:50	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 21:50	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 21:50	79-00-5		
Trichloroethene	<b>3.8</b>	ug/L	1.0	1		07/27/18 21:50	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 21:50	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 21:50	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 21:50	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 21:50	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 21:50	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 21:50	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 21:50	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/27/18 21:50	17060-07-0		
Dibromofluoromethane (S)	99	%.	82-114	1		07/27/18 21:50	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	82-120	1		07/27/18 21:50	460-00-4		
Toluene-d8 (S)	103	%.	82-109	1		07/27/18 21:50	2037-26-5		

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-12D	Lab ID: 267576004	Collected: 07/24/18 13:05	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 22:20	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 22:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 22:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 22:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 22:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 22:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 22:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 22:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 22:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 22:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 22:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 22:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 22:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 22:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 22:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 22:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 22:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 22:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 22:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 22:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 22:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:20	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 22:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 22:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 22:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 22:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 22:20	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 22:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 22:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 22:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 22:20	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 22:20	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 22:20	79-34-5	
Tetrachloroethene	<b>13.5</b>	ug/L	1.0	1		07/27/18 22:20	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-12D	Lab ID: 267576004	Collected: 07/24/18 13:05		Received: 07/26/18 12:42		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/27/18 22:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 22:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 22:20	79-00-5	
Trichloroethene	<b>51.2</b>	ug/L	1.0	1		07/27/18 22:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 22:20	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 22:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 22:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 22:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 22:20	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 22:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/27/18 22:20	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/27/18 22:20	17060-07-0	
Dibromofluoromethane (S)	98	%.	82-114	1		07/27/18 22:20	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	82-120	1		07/27/18 22:20	460-00-4	
Toluene-d8 (S)	105	%.	82-109	1		07/27/18 22:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6D	Lab ID: 267576005	Collected: 07/24/18 15:35	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 22:50	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 22:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 22:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 22:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 22:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 22:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 22:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 22:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 22:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 22:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 22:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 22:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 22:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 22:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 22:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 22:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 22:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 22:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 22:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 22:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 22:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 22:50	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 22:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 22:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 22:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 22:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 22:50	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 22:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 22:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 22:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 22:50	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 22:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 22:50	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 22:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/27/18 22:50	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6D		Lab ID: 267576005		Collected: 07/24/18 15:35		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 22:50	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 22:50	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 22:50	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 22:50	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/27/18 22:50	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 22:50	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 22:50	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 22:50	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 22:50	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 22:50	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 22:50	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 22:50	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%.	81-119	1		07/27/18 22:50	17060-07-0		
Dibromofluoromethane (S)	100	%.	82-114	1		07/27/18 22:50	1868-53-7		
4-Bromofluorobenzene (S)	98	%.	82-120	1		07/27/18 22:50	460-00-4		
Toluene-d8 (S)	101	%.	82-109	1		07/27/18 22:50	2037-26-5		

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-4I	Lab ID: 267576006	Collected: 07/24/18 16:55	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 23:19	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 23:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 23:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 23:19	74-97-5	
Bromodichloromethane	1.9	ug/L	1.0	1		07/27/18 23:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 23:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 23:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 23:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 23:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 23:19	75-00-3	
Chloroform	10.5	ug/L	1.0	1		07/27/18 23:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 23:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 23:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 23:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 23:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 23:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 23:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 23:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 23:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 23:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 23:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 23:19	75-35-4	
cis-1,2-Dichloroethene	31.1	ug/L	1.0	1		07/27/18 23:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 23:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:19	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 23:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 23:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 23:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 23:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 23:19	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 23:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 23:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 23:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 23:19	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 23:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 23:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 23:19	79-34-5	
Tetrachloroethene	2220	ug/L	100	100		07/29/18 03:32	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-4I		Lab ID: 267576006		Collected: 07/24/18 16:55		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 23:19	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:19	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 23:19	71-55-6		
1,1,2-Trichloroethane	<b>2.3</b>	ug/L	1.0	1		07/27/18 23:19	79-00-5		
Trichloroethene	<b>680</b>	ug/L	100	100		07/29/18 03:32	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 23:19	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 23:19	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 23:19	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 23:19	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 23:19	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 23:19	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 23:19	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%.	81-119	1		07/27/18 23:19	17060-07-0		
Dibromofluoromethane (S)	98	%.	82-114	1		07/27/18 23:19	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	82-120	1		07/27/18 23:19	460-00-4		
Toluene-d8 (S)	102	%.	82-109	1		07/27/18 23:19	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-20	Lab ID: 267576007	Collected: 07/24/18 10:00	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/27/18 23:49	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/18 23:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/27/18 23:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/27/18 23:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/27/18 23:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/27/18 23:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/27/18 23:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/27/18 23:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/27/18 23:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/27/18 23:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/27/18 23:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/27/18 23:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 23:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/27/18 23:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/27/18 23:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/27/18 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/27/18 23:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/27/18 23:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/27/18 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/27/18 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/27/18 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/27/18 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/27/18 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/27/18 23:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/27/18 23:49	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/27/18 23:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/27/18 23:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/27/18 23:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/27/18 23:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/27/18 23:49	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/27/18 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/27/18 23:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/27/18 23:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/27/18 23:49	91-20-3	
Styrene	ND	ug/L	1.0	1		07/27/18 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 23:49	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/27/18 23:49	79-34-5	
Tetrachloroethene	1.6	ug/L	1.0	1		07/27/18 23:49	127-18-4	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-20		Lab ID: 267576007		Collected: 07/24/18 10:00		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/27/18 23:49	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/27/18 23:49	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/27/18 23:49	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/27/18 23:49	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/27/18 23:49	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/27/18 23:49	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/27/18 23:49	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/27/18 23:49	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/27/18 23:49	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/27/18 23:49	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/27/18 23:49	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/27/18 23:49	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%.	81-119	1		07/27/18 23:49	17060-07-0		
Dibromofluoromethane (S)	92	%.	82-114	1		07/27/18 23:49	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/27/18 23:49	460-00-4		
Toluene-d8 (S)	104	%.	82-109	1		07/27/18 23:49	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6	Lab ID: 267576008	Collected: 07/24/18 11:50	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 00:19	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 00:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 00:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 00:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 00:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 00:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 00:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 00:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 00:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 00:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 00:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 00:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 00:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 00:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 00:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 00:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 00:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 00:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 00:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 00:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 00:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 00:19	75-35-4	
cis-1,2-Dichloroethene	1.8	ug/L	1.0	1		07/28/18 00:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 00:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:19	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 00:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 00:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 00:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 00:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 00:19	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 00:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 00:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 00:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 00:19	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 00:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 00:19	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 00:19	79-34-5	
Tetrachloroethene	3.8	ug/L	1.0	1		07/28/18 00:19	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6		Lab ID: 267576008		Collected: 07/24/18 11:50		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 00:19	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:19	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 00:19	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 00:19	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/28/18 00:19	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 00:19	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 00:19	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 00:19	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 00:19	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 00:19	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 00:19	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 00:19	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 00:19	17060-07-0		
Dibromofluoromethane (S)	100	%.	82-114	1		07/28/18 00:19	1868-53-7		
4-Bromofluorobenzene (S)	98	%.	82-120	1		07/28/18 00:19	460-00-4		
Toluene-d8 (S)	104	%.	82-109	1		07/28/18 00:19	2037-26-5		

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-9S	Lab ID: 267576009	Collected: 07/24/18 13:35	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 00:49	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 00:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 00:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 00:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 00:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 00:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 00:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 00:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 00:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 00:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 00:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 00:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 00:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 00:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 00:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 00:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 00:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 00:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 00:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 00:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 00:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 00:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 00:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 00:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 00:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 00:49	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 00:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 00:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 00:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 00:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 00:49	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 00:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 00:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 00:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 00:49	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 00:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 00:49	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 00:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/28/18 00:49	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-9S		Lab ID: 267576009		Collected: 07/24/18 13:35		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 00:49	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 00:49	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 00:49	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 00:49	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/28/18 00:49	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 00:49	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 00:49	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 00:49	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 00:49	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 00:49	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 00:49	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 00:49	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/28/18 00:49	17060-07-0		
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 00:49	1868-53-7		
4-Bromofluorobenzene (S)	97	%.	82-120	1		07/28/18 00:49	460-00-4		
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 00:49	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-9D		Lab ID: 267576010		Collected: 07/24/18 16:10		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		07/28/18 01:18	67-64-1		
Benzene	ND	ug/L	1.0	1		07/28/18 01:18	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		07/28/18 01:18	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 01:18	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 01:18	75-27-4		
Bromoform	ND	ug/L	1.0	1		07/28/18 01:18	75-25-2		
Bromomethane	ND	ug/L	2.0	1		07/28/18 01:18	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 01:18	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 01:18	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	108-90-7		
Chloroethane	ND	ug/L	1.0	1		07/28/18 01:18	75-00-3		
Chloroform	ND	ug/L	1.0	1		07/28/18 01:18	67-66-3		
Chloromethane	ND	ug/L	1.0	1		07/28/18 01:18	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 01:18	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 01:18	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 01:18	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 01:18	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 01:18	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		07/28/18 01:18	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 01:18	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 01:18	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 01:18	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 01:18	75-35-4		
cis-1,2-Dichloroethene	5.0	ug/L	1.0	1		07/28/18 01:18	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 01:18	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:18	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:18	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:18	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:18	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:18	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:18	10061-02-6		
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 01:18	108-20-3		
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 01:18	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 01:18	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		07/28/18 01:18	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 01:18	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 01:18	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 01:18	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 01:18	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		07/28/18 01:18	91-20-3		
Styrene	ND	ug/L	1.0	1		07/28/18 01:18	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 01:18	630-20-6		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 01:18	79-34-5		
Tetrachloroethene	4.8	ug/L	1.0	1		07/28/18 01:18	127-18-4		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-9D		Lab ID: 267576010		Collected: 07/24/18 16:10		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 01:18	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:18	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 01:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 01:18	79-00-5		
Trichloroethene	<b>23.5</b>	ug/L	1.0	1		07/28/18 01:18	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 01:18	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 01:18	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 01:18	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 01:18	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 01:18	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 01:18	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 01:18	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 01:18	17060-07-0		
Dibromofluoromethane (S)	100	%.	82-114	1		07/28/18 01:18	1868-53-7		
4-Bromofluorobenzene (S)	97	%.	82-120	1		07/28/18 01:18	460-00-4		
Toluene-d8 (S)	102	%.	82-109	1		07/28/18 01:18	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6DS	Lab ID: 267576011	Collected: 07/24/18 18:35	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>								
Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	1		07/28/18 01:48	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 01:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 01:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 01:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 01:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 01:48	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 01:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 01:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 01:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 01:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 01:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 01:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 01:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 01:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 01:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 01:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 01:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 01:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 01:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 01:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 01:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 01:48	75-35-4	
cis-1,2-Dichloroethene	25.1	ug/L	1.0	1		07/28/18 01:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 01:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 01:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 01:48	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 01:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 01:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 01:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 01:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 01:48	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 01:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 01:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 01:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 01:48	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 01:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 01:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 01:48	79-34-5	
Tetrachloroethene	6.2	ug/L	1.0	1		07/28/18 01:48	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-6DS		Lab ID: 267576011		Collected: 07/24/18 18:35		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 01:48	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 01:48	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 01:48	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 01:48	79-00-5		
Trichloroethene	<b>53.1</b>	ug/L	1.0	1		07/28/18 01:48	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 01:48	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 01:48	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 01:48	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 01:48	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 01:48	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 01:48	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 01:48	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 01:48	17060-07-0		
Dibromofluoromethane (S)	100	%.	82-114	1		07/28/18 01:48	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	82-120	1		07/28/18 01:48	460-00-4		
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 01:48	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Dup-1	Lab ID: 267576012	Collected: 07/25/18 00:00	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 02:18	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 02:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 02:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 02:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 02:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 02:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 02:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 02:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 02:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 02:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 02:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 02:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 02:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 02:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 02:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 02:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 02:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 02:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 02:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 02:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 02:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 02:18	75-35-4	
cis-1,2-Dichloroethene	15.1	ug/L	1.0	1		07/28/18 02:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 02:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 02:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 02:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 02:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 02:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 02:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 02:18	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 02:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 02:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 02:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 02:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 02:18	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 02:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 02:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 02:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 02:18	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 02:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 02:18	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 02:18	79-34-5	
Tetrachloroethene	699	ug/L	10.0	10		07/29/18 04:01	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Dup-1		Lab ID: 267576012		Collected: 07/25/18 00:00		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 02:18	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 02:18	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 02:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 02:18	79-00-5		
Trichloroethene	<b>1270</b>	ug/L	10.0	10		07/29/18 04:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 02:18	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 02:18	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 02:18	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 02:18	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 02:18	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 02:18	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 02:18	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%.	81-119	1		07/28/18 02:18	17060-07-0		
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 02:18	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/28/18 02:18	460-00-4		
Toluene-d8 (S)	101	%.	82-109	1		07/28/18 02:18	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-8	Lab ID: 267576013	Collected: 07/25/18 08:15	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 19:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 19:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 19:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 19:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 19:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 19:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 19:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 19:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 19:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 19:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 19:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 19:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 19:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 19:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 19:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 19:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 19:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 19:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 19:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 19:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 19:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 19:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 19:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 19:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 19:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 19:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 19:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 19:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 19:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 19:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 19:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 19:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 19:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 19:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 19:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 19:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 19:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 19:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 19:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 19:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 19:33	79-34-5	
Tetrachloroethene	<b>39.5</b>	ug/L	1.0	1		07/28/18 19:33	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-8		Lab ID: 267576013		Collected: 07/25/18 08:15		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 19:33	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 19:33	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 19:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 19:33	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		07/28/18 19:33	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 19:33	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 19:33	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 19:33	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 19:33	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 19:33	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 19:33	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 19:33	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 19:33	17060-07-0		
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 19:33	1868-53-7		
4-Bromofluorobenzene (S)	94	%.	82-120	1		07/28/18 19:33	460-00-4		
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 19:33	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-16	Lab ID: 267576014	Collected: 07/25/18 09:30	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 20:03	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 20:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 20:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 20:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 20:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 20:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 20:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 20:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 20:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 20:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 20:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 20:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 20:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 20:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 20:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 20:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 20:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 20:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 20:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 20:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 20:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 20:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:03	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 20:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 20:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 20:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 20:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 20:03	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 20:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 20:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 20:03	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 20:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 20:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 20:03	79-34-5	
Tetrachloroethene	<b>25.5</b>	ug/L	1.0	1		07/28/18 20:03	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-16		Lab ID: 267576014		Collected: 07/25/18 09:30		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 20:03	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:03	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 20:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 20:03	79-00-5		
Trichloroethene	<b>14.9</b>	ug/L	1.0	1		07/28/18 20:03	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 20:03	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 20:03	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 20:03	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 20:03	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 20:03	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 20:03	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 20:03	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%.	81-119	1		07/28/18 20:03	17060-07-0		
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 20:03	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	82-120	1		07/28/18 20:03	460-00-4		
Toluene-d8 (S)	102	%.	82-109	1		07/28/18 20:03	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-23	Lab ID: 267576015	Collected: 07/25/18 12:00	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>								
Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	1		07/28/18 20:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 20:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 20:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 20:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 20:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 20:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 20:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 20:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 20:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 20:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 20:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 20:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 20:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 20:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 20:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 20:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 20:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 20:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 20:33	75-35-4	
cis-1,2-Dichloroethene	<b>1110</b>	ug/L	20.0	20		08/01/18 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 20:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 20:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 20:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 20:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 20:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 20:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 20:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 20:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 20:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 20:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 20:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 20:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 20:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 20:33	79-34-5	
Tetrachloroethene	<b>66.2</b>	ug/L	1.0	1		07/28/18 20:33	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-23		Lab ID: 267576015		Collected: 07/25/18 12:00		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 20:33	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 20:33	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 20:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 20:33	79-00-5		
Trichloroethene	<b>306</b>	ug/L	20.0	20		08/01/18 20:54	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 20:33	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 20:33	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 20:33	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 20:33	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 20:33	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 20:33	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 20:33	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%.	81-119	1		07/28/18 20:33	17060-07-0		
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 20:33	1868-53-7		
4-Bromofluorobenzene (S)	95	%.	82-120	1		07/28/18 20:33	460-00-4		
Toluene-d8 (S)	104	%.	82-109	1		07/28/18 20:33	2037-26-5		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-17	Lab ID: 267576016	Collected: 07/25/18 11:00	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>								
Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	1		07/28/18 21:03	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 21:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 21:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 21:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 21:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 21:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 21:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 21:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 21:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 21:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 21:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 21:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 21:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 21:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 21:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 21:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 21:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 21:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 21:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 21:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 21:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 21:03	75-35-4	
cis-1,2-Dichloroethene	<b>15.9</b>	ug/L	1.0	1		07/28/18 21:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 21:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:03	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 21:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 21:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 21:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 21:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 21:03	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 21:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 21:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 21:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 21:03	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 21:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 21:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 21:03	79-34-5	
Tetrachloroethene	<b>225</b>	ug/L	10.0	10		08/01/18 21:24	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-17		Lab ID: 267576016		Collected: 07/25/18 11:00		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		07/28/18 21:03	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:03	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 21:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 21:03	79-00-5		
Trichloroethene	<b>114</b>	ug/L	1.0	1		07/28/18 21:03	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 21:03	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 21:03	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 21:03	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 21:03	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 21:03	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 21:03	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 21:03	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%.	81-119	1		07/28/18 21:03	17060-07-0		
Dibromofluoromethane (S)	98	%.	82-114	1		07/28/18 21:03	1868-53-7		
4-Bromofluorobenzene (S)	97	%.	82-120	1		07/28/18 21:03	460-00-4		
Toluene-d8 (S)	102	%.	82-109	1		07/28/18 21:03	2037-26-5		

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-15D		Lab ID: 267576017		Collected: 07/25/18 12:15	Received: 07/26/18 12:42	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 21:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 21:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 21:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 21:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 21:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 21:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 21:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 21:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 21:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 21:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 21:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 21:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 21:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 21:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 21:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 21:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 21:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 21:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 21:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 21:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 21:33	75-35-4	
cis-1,2-Dichloroethene	4.1	ug/L	1.0	1		07/28/18 21:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 21:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 21:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 21:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 21:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 21:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 21:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 21:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 21:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 21:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 21:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 21:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 21:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 21:33	79-34-5	
Tetrachloroethene	2060	ug/L	50.0	50		08/01/18 21:54	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-15D	Lab ID: 267576017	Collected: 07/25/18 12:15		Received: 07/26/18 12:42		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/28/18 21:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 21:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 21:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 21:33	79-00-5	
Trichloroethene	<b>157</b>	ug/L	50.0	50		08/01/18 21:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 21:33	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 21:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 21:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 21:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 21:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 21:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/28/18 21:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/28/18 21:33	17060-07-0	
Dibromofluoromethane (S)	101	%.	82-114	1		07/28/18 21:33	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	82-120	1		07/28/18 21:33	460-00-4	
Toluene-d8 (S)	101	%.	82-109	1		07/28/18 21:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-21	Lab ID: 267576018	Collected: 07/25/18 14:50	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 22:03	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 22:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 22:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 22:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 22:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 22:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 22:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 22:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 22:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 22:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 22:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 22:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 22:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 22:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 22:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 22:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 22:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 22:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 22:03	75-34-3	
1,2-Dichloroethane	1.5	ug/L	1.0	1		07/28/18 22:03	107-06-2	
1,1-Dichloroethene	48.1	ug/L	1.0	1		07/28/18 22:03	75-35-4	
cis-1,2-Dichloroethene	14800	ug/L	500	500		08/02/18 12:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 22:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:03	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 22:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 22:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 22:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 22:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 22:03	99-87-6	
Methylene Chloride	1.7	ug/L	1.0	1		07/28/18 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 22:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 22:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 22:03	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 22:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 22:03	79-34-5	
Tetrachloroethene	6540	ug/L	100	100		08/01/18 22:24	127-18-4	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-21	Lab ID: 267576018	Collected: 07/25/18 14:50	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	2.7	ug/L	1.0	1		07/28/18 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 22:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 22:03	79-00-5	
Trichloroethene	1170	ug/L	100	100		08/01/18 22:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 22:03	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 22:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 22:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 22:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 22:03	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 22:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/28/18 22:03	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 22:03	17060-07-0	
Dibromofluoromethane (S)	98	%.	82-114	1		07/28/18 22:03	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120	1		07/28/18 22:03	460-00-4	
Toluene-d8 (S)	102	%.	82-109	1		07/28/18 22:03	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-13D		Lab ID: 267576019		Collected: 07/25/18 13:35	Received: 07/26/18 12:42	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 22:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 22:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 22:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 22:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 22:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 22:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 22:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 22:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 22:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 22:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 22:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 22:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 22:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 22:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 22:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 22:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 22:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 22:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 22:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 22:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 22:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 22:33	75-35-4	
cis-1,2-Dichloroethene	<b>26.6</b>	ug/L	1.0	1		07/28/18 22:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 22:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 22:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 22:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 22:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 22:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 22:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 22:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 22:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 22:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 22:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 22:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 22:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 22:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 22:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 22:33	79-34-5	
Tetrachloroethene	<b>660</b>	ug/L	50.0	50		08/01/18 22:53	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-13D	Lab ID: 267576019	Collected: 07/25/18 13:35		Received: 07/26/18 12:42		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/28/18 22:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 22:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 22:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 22:33	79-00-5	
Trichloroethene	<b>1210</b>	ug/L	50.0	50		08/01/18 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 22:33	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 22:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 22:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 22:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 22:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 22:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/28/18 22:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/28/18 22:33	17060-07-0	
Dibromofluoromethane (S)	98	%.	82-114	1		07/28/18 22:33	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	82-120	1		07/28/18 22:33	460-00-4	
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 22:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-12	Lab ID: 267576020	Collected: 07/25/18 15:35	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 23:03	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 23:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 23:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 23:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 23:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 23:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 23:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 23:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 23:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 23:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 23:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 23:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 23:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 23:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 23:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 23:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 23:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 23:03	107-06-2	
1,1-Dichloroethene	<b>46.0</b>	ug/L	1.0	1		07/28/18 23:03	75-35-4	
cis-1,2-Dichloroethene	<b>10000</b>	ug/L	100	100		08/01/18 23:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:03	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 23:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 23:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 23:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 23:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 23:03	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 23:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 23:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 23:03	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 23:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 23:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 23:03	79-34-5	
Tetrachloroethene	<b>5350</b>	ug/L	100	100		08/01/18 23:23	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-12		Lab ID: 267576020		Collected: 07/25/18 15:35		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	4.6	ug/L	1.0	1		07/28/18 23:03	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:03	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 23:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 23:03	79-00-5		
Trichloroethene	1090	ug/L	100	100		08/01/18 23:23	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 23:03	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 23:03	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 23:03	108-05-4		
Vinyl chloride	3.2	ug/L	1.0	1		07/28/18 23:03	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 23:03	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 23:03	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/28/18 23:03	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%.	81-119	1		07/28/18 23:03	17060-07-0		
Dibromofluoromethane (S)	105	%.	82-114	1		07/28/18 23:03	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/28/18 23:03	460-00-4		
Toluene-d8 (S)	102	%.	82-109	1		07/28/18 23:03	2037-26-5		

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-7	Lab ID: 267576021	Collected: 07/25/18 15:50	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>								
Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	1		07/28/18 23:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 23:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 23:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 23:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 23:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 23:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 23:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 23:33	75-00-3	
Chloroform	2.2	ug/L	1.0	1		07/28/18 23:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 23:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 23:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 23:33	75-35-4	
cis-1,2-Dichloroethene	178	ug/L	100	100		08/01/18 23:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 23:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 23:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 23:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 23:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 23:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 23:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 23:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 23:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 23:33	79-34-5	
Tetrachloroethene	14300	ug/L	100	100		08/01/18 23:53	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-7	Lab ID: 267576021	Collected: 07/25/18 15:50		Received: 07/26/18 12:42		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/28/18 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 23:33	79-00-5	
Trichloroethene	<b>260</b>	ug/L	100	100		08/01/18 23:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 23:33	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 23:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 23:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 23:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 23:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/28/18 23:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107	%.	81-119	1		07/28/18 23:33	17060-07-0	
Dibromofluoromethane (S)	100	%.	82-114	1		07/28/18 23:33	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/28/18 23:33	460-00-4	
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 23:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Dup-2	Lab ID: 267576022	Collected: 07/25/18 00:00	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/29/18 00:02	67-64-1	
Benzene	ND	ug/L	1.0	1		07/29/18 00:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/29/18 00:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/29/18 00:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/29/18 00:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/29/18 00:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/29/18 00:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/29/18 00:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/29/18 00:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/29/18 00:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/29/18 00:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/29/18 00:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 00:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 00:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/29/18 00:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/29/18 00:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/29/18 00:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/29/18 00:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/29/18 00:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/29/18 00:02	75-34-3	
1,2-Dichloroethane	1.6	ug/L	1.0	1		07/29/18 00:02	107-06-2	
1,1-Dichloroethene	50.3	ug/L	1.0	1		07/29/18 00:02	75-35-4	
cis-1,2-Dichloroethene	14000	ug/L	500	500		08/02/18 13:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/29/18 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:02	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/29/18 00:02	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/29/18 00:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/29/18 00:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/29/18 00:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/18 00:02	99-87-6	
Methylene Chloride	2.9	ug/L	1.0	1		07/29/18 00:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/29/18 00:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/29/18 00:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/29/18 00:02	91-20-3	
Styrene	ND	ug/L	1.0	1		07/29/18 00:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 00:02	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 00:02	79-34-5	
Tetrachloroethene	6020	ug/L	100	100		08/02/18 00:23	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Dup-2		Lab ID: 267576022	Collected: 07/25/18 00:00	Received: 07/26/18 12:42	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	2.8	ug/L	1.0	1		07/29/18 00:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/18 00:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/18 00:02	79-00-5	
Trichloroethene	1100	ug/L	100	100		08/02/18 00:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/18 00:02	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/29/18 00:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/29/18 00:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/29/18 00:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/29/18 00:02	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/29/18 00:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/29/18 00:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108	%.	81-119	1		07/29/18 00:02	17060-07-0	
Dibromofluoromethane (S)	105	%.	82-114	1		07/29/18 00:02	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120	1		07/29/18 00:02	460-00-4	
Toluene-d8 (S)	102	%.	82-109	1		07/29/18 00:02	2037-26-5	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-13	Lab ID: 267576023	Collected: 07/26/18 09:25	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/29/18 00:32	67-64-1	
Benzene	ND	ug/L	1.0	1		07/29/18 00:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/29/18 00:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/29/18 00:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/29/18 00:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/29/18 00:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/29/18 00:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/29/18 00:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/29/18 00:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/29/18 00:32	75-00-3	
Chloroform	7.7	ug/L	1.0	1		07/29/18 00:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/29/18 00:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 00:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 00:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/29/18 00:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/29/18 00:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/29/18 00:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/29/18 00:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/29/18 00:32	75-71-8	
1,1-Dichloroethane	2.7	ug/L	1.0	1		07/29/18 00:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/29/18 00:32	107-06-2	
1,1-Dichloroethene	14.3	ug/L	1.0	1		07/29/18 00:32	75-35-4	
cis-1,2-Dichloroethene	1450	ug/L	100	100		08/02/18 02:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/29/18 00:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 00:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 00:32	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/29/18 00:32	108-20-3	
Ethylbenzene	1.5	ug/L	1.0	1		07/29/18 00:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/29/18 00:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/29/18 00:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/18 00:32	99-87-6	
Methylene Chloride	385	ug/L	100	100		08/02/18 02:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/29/18 00:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/29/18 00:32	1634-04-4	
Naphthalene	2.7	ug/L	1.0	1		07/29/18 00:32	91-20-3	
Styrene	ND	ug/L	1.0	1		07/29/18 00:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 00:32	630-20-6	
1,1,1,2,2-Tetrachloroethane	18.4	ug/L	1.0	1		07/29/18 00:32	79-34-5	
Tetrachloroethene	49500	ug/L	1000	1000		08/02/18 00:53	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-13		Lab ID: 267576023		Collected: 07/26/18 09:25		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	70.1	ug/L	1.0	1		07/29/18 00:32	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 00:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/18 00:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/18 00:32	79-00-5		
Trichloroethene	951	ug/L	100	100		08/02/18 02:52	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/18 00:32	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/29/18 00:32	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/29/18 00:32	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/29/18 00:32	75-01-4		
Xylene (Total)	4.9	ug/L	2.0	1		07/29/18 00:32	1330-20-7		
m&p-Xylene	3.4	ug/L	1.0	1		07/29/18 00:32	179601-23-1		
o-Xylene	1.5	ug/L	1.0	1		07/29/18 00:32	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%.	81-119	1		07/29/18 00:32	17060-07-0		
Dibromofluoromethane (S)	102	%.	82-114	1		07/29/18 00:32	1868-53-7		
4-Bromofluorobenzene (S)	92	%.	82-120	1		07/29/18 00:32	460-00-4		
Toluene-d8 (S)	112	%.	82-109	1		07/29/18 00:32	2037-26-5	S0	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-22	Lab ID: 267576024	Collected: 07/26/18 10:20	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/29/18 01:02	67-64-1	
Benzene	ND	ug/L	1.0	1		07/29/18 01:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/29/18 01:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/29/18 01:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/29/18 01:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/29/18 01:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/29/18 01:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/29/18 01:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/29/18 01:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/29/18 01:02	75-00-3	
Chloroform	7.7	ug/L	1.0	1		07/29/18 01:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/29/18 01:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 01:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 01:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/29/18 01:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/29/18 01:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/29/18 01:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/29/18 01:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/29/18 01:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/29/18 01:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/29/18 01:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/29/18 01:02	75-35-4	
cis-1,2-Dichloroethene	931	ug/L	100	100		08/02/18 03:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/29/18 01:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:02	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/29/18 01:02	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/29/18 01:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/29/18 01:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/29/18 01:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/18 01:02	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/29/18 01:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/29/18 01:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/29/18 01:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/29/18 01:02	91-20-3	
Styrene	ND	ug/L	1.0	1		07/29/18 01:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 01:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	25.0	ug/L	1.0	1		07/29/18 01:02	79-34-5	
Tetrachloroethene	100000	ug/L	1000	1000		08/02/18 01:23	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-22		Lab ID: 267576024		Collected: 07/26/18 10:20		Received: 07/26/18 12:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	52.7	ug/L	1.0	1		07/29/18 01:02	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:02	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/18 01:02	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/18 01:02	79-00-5		
Trichloroethene	1210	ug/L	100	100		08/02/18 03:22	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/18 01:02	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/29/18 01:02	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		07/29/18 01:02	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		07/29/18 01:02	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		07/29/18 01:02	1330-20-7		
m&p-Xylene	1.8	ug/L	1.0	1		07/29/18 01:02	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/29/18 01:02	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%.	81-119	1		07/29/18 01:02	17060-07-0		
Dibromofluoromethane (S)	101	%.	82-114	1		07/29/18 01:02	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/29/18 01:02	460-00-4		
Toluene-d8 (S)	124	%.	82-109	1		07/29/18 01:02	2037-26-5	S0	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-11	Lab ID: 267576025	Collected: 07/25/18 09:45	Received: 07/26/18 12:42	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/29/18 01:32	67-64-1	
Benzene	ND	ug/L	1.0	1		07/29/18 01:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/29/18 01:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/29/18 01:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/29/18 01:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/29/18 01:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/29/18 01:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/29/18 01:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/29/18 01:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/29/18 01:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/29/18 01:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/29/18 01:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 01:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/29/18 01:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/29/18 01:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/29/18 01:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/29/18 01:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/29/18 01:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/29/18 01:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/29/18 01:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/29/18 01:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/29/18 01:32	75-35-4	
cis-1,2-Dichloroethene	<b>2.9</b>	ug/L	1.0	1		07/29/18 01:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/29/18 01:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/29/18 01:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/29/18 01:32	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/29/18 01:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/29/18 01:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/29/18 01:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/29/18 01:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/18 01:32	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/29/18 01:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/29/18 01:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/29/18 01:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/29/18 01:32	91-20-3	
Styrene	ND	ug/L	1.0	1		07/29/18 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 01:32	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/18 01:32	79-34-5	
Tetrachloroethene	<b>74.7</b>	ug/L	10.0	10		08/02/18 01:52	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: MW-11	Lab ID: 267576025	Collected: 07/25/18 09:45		Received: 07/26/18 12:42		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/29/18 01:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/18 01:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/18 01:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/18 01:32	79-00-5	
Trichloroethene	<b>31.0</b>	ug/L	1.0	1		07/29/18 01:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/18 01:32	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/29/18 01:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/29/18 01:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/29/18 01:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/29/18 01:32	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/29/18 01:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/29/18 01:32	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%.	81-119	1		07/29/18 01:32	17060-07-0	
Dibromofluoromethane (S)	99	%.	82-114	1		07/29/18 01:32	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	82-120	1		07/29/18 01:32	460-00-4	
Toluene-d8 (S)	103	%.	82-109	1		07/29/18 01:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Trip Blank		Lab ID: 267576026	Collected: 07/24/18 00:00	Received: 07/26/18 12:42	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		07/28/18 18:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/28/18 18:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/18 18:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/18 18:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/28/18 18:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/28/18 18:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/28/18 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/28/18 18:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/28/18 18:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/18 18:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/28/18 18:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/28/18 18:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 18:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/18 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/28/18 18:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/18 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		07/28/18 18:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/18 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/18 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/18 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/18 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/18 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/18 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/18 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/28/18 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/18 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/28/18 18:33	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		07/28/18 18:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/28/18 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		07/28/18 18:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/28/18 18:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/18 18:33	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		07/28/18 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/18 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		07/28/18 18:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/28/18 18:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/28/18 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 18:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/18 18:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/28/18 18:33	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Sample: Trip Blank		Lab ID: 267576026	Collected: 07/24/18 00:00	Received: 07/26/18 12:42	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		07/28/18 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/18 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/18 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/28/18 18:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/28/18 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/28/18 18:33	75-69-4	L1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/18 18:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/28/18 18:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/28/18 18:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/28/18 18:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		07/28/18 18:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/28/18 18:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%.	81-119	1		07/28/18 18:33	17060-07-0	
Dibromofluoromethane (S)	97	%.	82-114	1		07/28/18 18:33	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	82-120	1		07/28/18 18:33	460-00-4	
Toluene-d8 (S)	103	%.	82-109	1		07/28/18 18:33	2037-26-5	

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

QC Batch: 10582

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV

Associated Lab Samples: 267576001, 267576002, 267576003, 267576004, 267576005, 267576006, 267576007, 267576008, 267576009, 267576010, 267576011, 267576012

METHOD BLANK: 47888

Matrix: Water

Associated Lab Samples: 267576001, 267576002, 267576003, 267576004, 267576005, 267576006, 267576007, 267576008, 267576009, 267576010, 267576011, 267576012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,1-Dichloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,1-Dichloroethene	ug/L	ND	1.0	07/27/18 12:08	
1,1-Dichloropropene	ug/L	ND	1.0	07/27/18 12:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/27/18 12:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/27/18 12:08	
1,2-Dibromoethane (EDB)	ug/L	ND	2.0	07/27/18 12:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
1,2-Dichloroethane	ug/L	ND	1.0	07/27/18 12:08	
1,2-Dichloropropane	ug/L	ND	1.0	07/27/18 12:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
1,3-Dichloropropane	ug/L	ND	1.0	07/27/18 12:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
2,2-Dichloropropane	ug/L	ND	1.0	07/27/18 12:08	
2-Butanone (MEK)	ug/L	ND	5.0	07/27/18 12:08	
2-Chlorotoluene	ug/L	ND	1.0	07/27/18 12:08	
2-Hexanone	ug/L	ND	5.0	07/27/18 12:08	
4-Chlorotoluene	ug/L	ND	1.0	07/27/18 12:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/27/18 12:08	
Acetone	ug/L	ND	25.0	07/27/18 12:08	
Benzene	ug/L	ND	1.0	07/27/18 12:08	
Bromobenzene	ug/L	ND	1.0	07/27/18 12:08	
Bromochloromethane	ug/L	ND	1.0	07/27/18 12:08	
Bromodichloromethane	ug/L	ND	1.0	07/27/18 12:08	
Bromoform	ug/L	ND	1.0	07/27/18 12:08	
Bromomethane	ug/L	ND	2.0	07/27/18 12:08	
Carbon tetrachloride	ug/L	ND	1.0	07/27/18 12:08	
Chlorobenzene	ug/L	ND	1.0	07/27/18 12:08	
Chloroethane	ug/L	ND	1.0	07/27/18 12:08	
Chloroform	ug/L	ND	1.0	07/27/18 12:08	
Chloromethane	ug/L	ND	1.0	07/27/18 12:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/27/18 12:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/27/18 12:08	
Dibromochloromethane	ug/L	ND	1.0	07/27/18 12:08	
Dibromomethane	ug/L	ND	1.0	07/27/18 12:08	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

METHOD BLANK: 47888

Matrix: Water

Associated Lab Samples: 267576001, 267576002, 267576003, 267576004, 267576005, 267576006, 267576007, 267576008, 267576009, 267576010, 267576011, 267576012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	07/27/18 12:08	
Diisopropyl ether	ug/L	ND	10.0	07/27/18 12:08	
Ethylbenzene	ug/L	ND	1.0	07/27/18 12:08	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	07/27/18 12:08	
m&p-Xylene	ug/L	ND	1.0	07/27/18 12:08	
Methyl-tert-butyl ether	ug/L	ND	10.0	07/27/18 12:08	
Methylene Chloride	ug/L	ND	1.0	07/27/18 12:08	
Naphthalene	ug/L	ND	1.0	07/27/18 12:08	
o-Xylene	ug/L	ND	1.0	07/27/18 12:08	
p-Isopropyltoluene	ug/L	ND	1.0	07/27/18 12:08	
Styrene	ug/L	ND	1.0	07/27/18 12:08	
Tetrachloroethene	ug/L	ND	1.0	07/27/18 12:08	
Toluene	ug/L	ND	1.0	07/27/18 12:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/27/18 12:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/27/18 12:08	
Trichloroethene	ug/L	ND	1.0	07/27/18 12:08	
Trichlorofluoromethane	ug/L	ND	1.0	07/27/18 12:08	
Vinyl acetate	ug/L	ND	2.0	07/27/18 12:08	
Vinyl chloride	ug/L	ND	1.0	07/27/18 12:08	
Xylene (Total)	ug/L	ND	2.0	07/27/18 12:08	
1,2-Dichloroethane-d4 (S)	%	104	81-119	07/27/18 12:08	
4-Bromofluorobenzene (S)	%	96	82-120	07/27/18 12:08	
Dibromofluoromethane (S)	%	95	82-114	07/27/18 12:08	
Toluene-d8 (S)	%	104	82-109	07/27/18 12:08	

LABORATORY CONTROL SAMPLE: 47889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.0	106	68-137	
1,1,1-Trichloroethane	ug/L	50	50.8	102	72-134	
1,1,2,2-Tetrachloroethane	ug/L	50	55.1	110	51-158	
1,1,2-Trichloroethane	ug/L	50	52.8	106	78-131	
1,1-Dichloroethane	ug/L	50	58.5	117	69-151	
1,1-Dichloroethene	ug/L	50	59.8	120	64-158	
1,1-Dichloropropene	ug/L	50	52.9	106	70-133	
1,2,3-Trichlorobenzene	ug/L	50	52.2	104	73-130	
1,2,3-Trichloropropane	ug/L	50	44.9	90	78-133	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	51-163	
1,2-Dibromo-3-chloropropane	ug/L	50	41.0	82	58-124	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	71-134	
1,2-Dichlorobenzene	ug/L	50	53.8	108	70-135	
1,2-Dichloroethane	ug/L	50	54.5	109	72-129	
1,2-Dichloropropane	ug/L	50	51.0	102	64-135	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

LABORATORY CONTROL SAMPLE: 47889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.7	105	71-134	
1,3-Dichloropropane	ug/L	50	54.3	109	70-140	
1,4-Dichlorobenzene	ug/L	50	53.0	106	70-131	
2,2-Dichloropropane	ug/L	50	41.4	83	34-170	
2-Butanone (MEK)	ug/L	100	135	135	52-143	
2-Chlorotoluene	ug/L	50	53.1	106	77-128	
2-Hexanone	ug/L	100	124	124	61-136	
4-Chlorotoluene	ug/L	50	54.0	108	79-126	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.1	96	71-129	
Acetone	ug/L	100	156	156	48-224	
Benzene	ug/L	50	54.6	109	68-132	
Bromobenzene	ug/L	50	50.9	102	75-122	
Bromochloromethane	ug/L	50	55.1	110	73-133	
Bromodichloromethane	ug/L	50	50.0	100	67-121	
Bromoform	ug/L	50	44.5	89	57-125	
Bromomethane	ug/L	50	64.5	129	35-156	
Carbon tetrachloride	ug/L	50	52.9	106	66-122	
Chlorobenzene	ug/L	50	57.2	114	71-126	
Chloroethane	ug/L	50	61.3	123	43-143	
Chloroform	ug/L	50	55.6	111	71-136	
Chloromethane	ug/L	50	56.8	114	47-123	
cis-1,2-Dichloroethene	ug/L	50	54.4	109	74-131	
cis-1,3-Dichloropropene	ug/L	50	48.4	97	78-120	
Dibromochloromethane	ug/L	50	47.8	96	65-115	
Dibromomethane	ug/L	50	51.4	103	79-129	
Dichlorodifluoromethane	ug/L	50	58.4	117	29-124	
Diisopropyl ether	ug/L	50	53.2	106	70-130	
Ethylbenzene	ug/L	50	55.8	112	68-129	
Hexachloro-1,3-butadiene	ug/L	50	51.9	104	58-142	
m&p-Xylene	ug/L	100	111	111	67-137	
Methyl-tert-butyl ether	ug/L	100	95.3	95	59-130	
Methylene Chloride	ug/L	50	54.5	109	61-147	
Naphthalene	ug/L	50	45.3	91	48-144	
o-Xylene	ug/L	50	54.4	109	52-141	
p-Isopropyltoluene	ug/L	50	53.8	108	58-137	
Styrene	ug/L	50	57.5	115	77-128	
Tetrachloroethene	ug/L	50	47.6	95	51-139	
Toluene	ug/L	50	52.7	105	60-133	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	69-144	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	74-128	
Trichloroethene	ug/L	50	53.6	107	73-126	
Trichlorofluoromethane	ug/L	50	72.6	145	55-132	L1
Vinyl acetate	ug/L	50	54.9	110	52-141	
Vinyl chloride	ug/L	50	56.2	112	50-133	
Xylene (Total)	ug/L	150	165	110	78-132	
1,2-Dichloroethane-d4 (S)	%			104	81-119	
4-Bromofluorobenzene (S)	%			93	82-120	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

LABORATORY CONTROL SAMPLE: 47889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			104	82-114	
Toluene-d8 (S)	%.			104	82-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 47890 47891

Parameter	Units	267417013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	51.6	51.8	103	104	68-137	0	11	
1,1,1-Trichloroethane	ug/L	ND	50	50	46.5	48.1	93	96	66-142	3	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	57.2	56.4	114	113	39-171	2	13	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.9	54.9	108	110	73-136	2	12	
1,1-Dichloroethane	ug/L	ND	50	50	51.2	53.8	102	108	66-155	5	15	
1,1-Dichloroethene	ug/L	ND	50	50	44.3	48.0	89	96	33-181	8	34	
1,1-Dichloropropene	ug/L	ND	50	50	46.4	45.0	93	90	70-133	3	12	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	52.8	53.5	106	107	73-130	1	22	
1,2,3-Trichloropropane	ug/L	ND	50	50	44.1	43.7	88	87	78-133	1	14	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.7	52.7	103	105	44-164	2	13	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	42.8	42.7	86	85	58-124	0	15	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	55.0	55.6	110	111	71-134	1	12	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.5	52.8	107	106	69-135	1	10	
1,2-Dichloroethane	ug/L	ND	50	50	54.3	53.1	109	106	36-159	2	10	
1,2-Dichloropropane	ug/L	ND	50	50	49.1	51.0	98	102	68-132	4	11	
1,3-Dichlorobenzene	ug/L	ND	50	50	52.8	51.6	106	103	68-135	2	10	
1,3-Dichloropropane	ug/L	ND	50	50	56.9	57.6	114	115	70-138	1	10	
1,4-Dichlorobenzene	ug/L	ND	50	50	52.4	52.3	105	105	49-153	0	9	
2,2-Dichloropropane	ug/L	ND	50	50	35.2	36.3	70	73	34-170	3	9	
2-Butanone (MEK)	ug/L	ND	100	100	91.1	91.3	91	91	10-189	0	23	
2-Chlorotoluene	ug/L	ND	50	50	53.5	52.6	107	105	77-128	2	10	
2-Hexanone	ug/L	ND	100	100	91.8	96.0	92	96	40-135	4	18	
4-Chlorotoluene	ug/L	ND	50	50	54.2	52.6	108	105	79-126	3	10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	89.5	92.0	89	92	30-177	3	10	
Acetone	ug/L	ND	100	100	85.5	85.7	85	85	44-223	0	14	
Benzene	ug/L	ND	50	50	50.3	50.3	101	101	66-139	0	10	
Bromobenzene	ug/L	ND	50	50	50.1	51.1	100	102	75-122	2	12	
Bromochloromethane	ug/L	ND	50	50	52.2	50.5	104	101	73-133	3	13	
Bromodichloromethane	ug/L	ND	50	50	48.2	49.6	96	99	57-120	3	13	
Bromoform	ug/L	ND	50	50	43.6	43.9	87	88	48-128	1	13	
Bromomethane	ug/L	ND	50	50	50.0	57.2	100	114	10-187	14	32	
Carbon tetrachloride	ug/L	ND	50	50	48.6	47.6	97	95	58-127	2	14	
Chlorobenzene	ug/L	ND	50	50	56.8	55.7	114	111	63-137	2	10	
Chloroethane	ug/L	ND	50	50	39.4	44.1	79	88	52-146	11	16	
Chloroform	ug/L	ND	50	50	53.0	52.7	106	105	74-137	1	9	
Chloromethane	ug/L	ND	50	50	44.8	52.8	90	106	41-127	16	10 R1	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.4	49.6	101	99	71-138	2	16	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Parameter	Units	47890		47891		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		267417013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.2	46.7	90	93	32-145	3	12		
Dibromochloromethane	ug/L	ND	50	50	47.8	48.3	96	97	52-116	1	13		
Dibromomethane	ug/L	ND	50	50	51.8	52.4	104	105	79-129	1	14		
Dichlorodifluoromethane	ug/L	ND	50	50	38.6	42.7	77	85	36-126	10	15		
Diisopropyl ether	ug/L	ND	50	50	50.7	51.7	101	103	70-130	2	20		
Ethylbenzene	ug/L	ND	50	50	53.9	54.5	108	109	31-174	1	10		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	57.5	57.7	115	115	58-142	0	11		
m&p-Xylene	ug/L	ND	100	100	108	108	108	108	27-179	1	10		
Methyl-tert-butyl ether	ug/L	ND	100	100	85.2	92.3	85	92	38-120	8	12		
Methylene Chloride	ug/L	ND	50	50	48.5	51.7	96	103	61-146	6	15		
Naphthalene	ug/L	ND	50	50	48.0	50.1	96	100	25-159	4	14		
o-Xylene	ug/L	ND	50	50	55.8	55.1	112	110	52-141	1	65		
p-Isopropyltoluene	ug/L	ND	50	50	49.3	50.0	99	100	59-134	2	9		
Styrene	ug/L	ND	50	50	52.3	45.7	105	91	77-128	14	14		
Tetrachloroethene	ug/L	ND	50	50	44.7	44.8	89	90	36-155	0	14		
Toluene	ug/L	ND	50	50	51.4	52.4	103	105	52-146	2	11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.1	50.0	96	100	61-152	4	14		
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.0	45.7	88	91	37-146	4	12		
Trichloroethene	ug/L	ND	50	50	48.0	48.3	96	97	61-141	1	12		
Trichlorofluoromethane	ug/L	ND	50	50	55.3	57.9	111	116	51-141	5	13		
Vinyl acetate	ug/L	ND	50	50	52.9	50.7	106	101	52-141	4	14		
Vinyl chloride	ug/L	ND	50	50	36.2	42.8	72	86	22-156	17	26		
Xylene (Total)	ug/L	ND	150	150	164	163	109	108	78-132	1	7		
1,2-Dichloroethane-d4 (S)	%						104	104	81-119				
4-Bromofluorobenzene (S)	%						91	91	82-120				
Dibromofluoromethane (S)	%						106	104	82-114				
Toluene-d8 (S)	%						103	102	82-109				

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

QC Batch: 10699 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV  
 Associated Lab Samples: 267576013, 267576014, 267576015, 267576016, 267576017, 267576018, 267576019, 267576020, 267576021, 267576022, 267576023, 267576024, 267576025, 267576026

METHOD BLANK: 48482 Matrix: Water  
 Associated Lab Samples: 267576013, 267576014, 267576015, 267576016, 267576017, 267576018, 267576019, 267576020, 267576021, 267576022, 267576023, 267576024, 267576025, 267576026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,1-Dichloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,1-Dichloroethene	ug/L	ND	1.0	07/28/18 18:03	
1,1-Dichloropropene	ug/L	ND	1.0	07/28/18 18:03	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/28/18 18:03	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/28/18 18:03	
1,2-Dibromoethane (EDB)	ug/L	ND	2.0	07/28/18 18:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
1,2-Dichloroethane	ug/L	ND	1.0	07/28/18 18:03	
1,2-Dichloropropane	ug/L	ND	1.0	07/28/18 18:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
1,3-Dichloropropane	ug/L	ND	1.0	07/28/18 18:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
2,2-Dichloropropane	ug/L	ND	1.0	07/28/18 18:03	
2-Butanone (MEK)	ug/L	ND	5.0	07/28/18 18:03	
2-Chlorotoluene	ug/L	ND	1.0	07/28/18 18:03	
2-Hexanone	ug/L	ND	5.0	07/28/18 18:03	
4-Chlorotoluene	ug/L	ND	1.0	07/28/18 18:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/28/18 18:03	
Acetone	ug/L	ND	25.0	07/28/18 18:03	
Benzene	ug/L	ND	1.0	07/28/18 18:03	
Bromobenzene	ug/L	ND	1.0	07/28/18 18:03	
Bromochloromethane	ug/L	ND	1.0	07/28/18 18:03	
Bromodichloromethane	ug/L	ND	1.0	07/28/18 18:03	
Bromoform	ug/L	ND	1.0	07/28/18 18:03	
Bromomethane	ug/L	ND	2.0	07/28/18 18:03	
Carbon tetrachloride	ug/L	ND	1.0	07/28/18 18:03	
Chlorobenzene	ug/L	ND	1.0	07/28/18 18:03	
Chloroethane	ug/L	ND	1.0	07/28/18 18:03	
Chloroform	ug/L	ND	1.0	07/28/18 18:03	
Chloromethane	ug/L	ND	1.0	07/28/18 18:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/28/18 18:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/28/18 18:03	
Dibromochloromethane	ug/L	ND	1.0	07/28/18 18:03	
Dibromomethane	ug/L	ND	1.0	07/28/18 18:03	

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

METHOD BLANK: 48482

Matrix: Water

Associated Lab Samples: 267576013, 267576014, 267576015, 267576016, 267576017, 267576018, 267576019, 267576020, 267576021, 267576022, 267576023, 267576024, 267576025, 267576026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	07/28/18 18:03	
Diisopropyl ether	ug/L	ND	10.0	07/28/18 18:03	
Ethylbenzene	ug/L	ND	1.0	07/28/18 18:03	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	07/28/18 18:03	
m&p-Xylene	ug/L	ND	1.0	07/28/18 18:03	
Methyl-tert-butyl ether	ug/L	ND	10.0	07/28/18 18:03	
Methylene Chloride	ug/L	ND	1.0	07/28/18 18:03	
Naphthalene	ug/L	ND	1.0	07/28/18 18:03	
o-Xylene	ug/L	ND	1.0	07/28/18 18:03	
p-Isopropyltoluene	ug/L	ND	1.0	07/28/18 18:03	
Styrene	ug/L	ND	1.0	07/28/18 18:03	
Tetrachloroethene	ug/L	ND	1.0	07/28/18 18:03	
Toluene	ug/L	ND	1.0	07/28/18 18:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/28/18 18:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/28/18 18:03	
Trichloroethene	ug/L	ND	1.0	07/28/18 18:03	
Trichlorofluoromethane	ug/L	ND	1.0	07/28/18 18:03	
Vinyl acetate	ug/L	ND	2.0	07/28/18 18:03	
Vinyl chloride	ug/L	ND	1.0	07/28/18 18:03	
Xylene (Total)	ug/L	ND	2.0	07/28/18 18:03	
1,2-Dichloroethane-d4 (S)	%	106	81-119	07/28/18 18:03	
4-Bromofluorobenzene (S)	%	97	82-120	07/28/18 18:03	
Dibromofluoromethane (S)	%	95	82-114	07/28/18 18:03	
Toluene-d8 (S)	%	102	82-109	07/28/18 18:03	

LABORATORY CONTROL SAMPLE: 48483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	68-137	
1,1,1-Trichloroethane	ug/L	50	50.1	100	72-134	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	51-158	
1,1,2-Trichloroethane	ug/L	50	51.1	102	78-131	
1,1-Dichloroethane	ug/L	50	54.3	109	69-151	
1,1-Dichloroethene	ug/L	50	56.9	114	64-158	
1,1-Dichloropropene	ug/L	50	50.9	102	70-133	
1,2,3-Trichlorobenzene	ug/L	50	48.2	96	73-130	
1,2,3-Trichloropropane	ug/L	50	42.2	84	78-133	
1,2,4-Trichlorobenzene	ug/L	50	47.9	96	51-163	
1,2-Dibromo-3-chloropropane	ug/L	50	40.7	81	58-124	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	71-134	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-135	
1,2-Dichloroethane	ug/L	50	52.5	105	72-129	
1,2-Dichloropropane	ug/L	50	48.7	97	64-135	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

LABORATORY CONTROL SAMPLE: 48483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.7	97	71-134	
1,3-Dichloropropane	ug/L	50	52.7	105	70-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-131	
2,2-Dichloropropane	ug/L	50	39.3	79	34-170	
2-Butanone (MEK)	ug/L	100	129	129	52-143	
2-Chlorotoluene	ug/L	50	49.3	99	77-128	
2-Hexanone	ug/L	100	120	120	61-136	
4-Chlorotoluene	ug/L	50	51.9	104	79-126	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.9	97	71-129	
Acetone	ug/L	100	153	153	48-224	
Benzene	ug/L	50	51.3	103	68-132	
Bromobenzene	ug/L	50	46.4	93	75-122	
Bromochloromethane	ug/L	50	52.2	104	73-133	
Bromodichloromethane	ug/L	50	49.4	99	67-121	
Bromoform	ug/L	50	45.0	90	57-125	
Bromomethane	ug/L	50	63.4	127	35-156	
Carbon tetrachloride	ug/L	50	50.1	100	66-122	
Chlorobenzene	ug/L	50	55.0	110	71-126	
Chloroethane	ug/L	50	58.1	116	43-143	
Chloroform	ug/L	50	54.0	108	71-136	
Chloromethane	ug/L	50	59.3	119	47-123	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	74-131	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	78-120	
Dibromochloromethane	ug/L	50	48.8	98	65-115	
Dibromomethane	ug/L	50	51.7	103	79-129	
Dichlorodifluoromethane	ug/L	50	55.1	110	29-124	
Diisopropyl ether	ug/L	50	49.4	99	70-130	
Ethylbenzene	ug/L	50	52.7	105	68-129	
Hexachloro-1,3-butadiene	ug/L	50	49.0	98	58-142	
m&p-Xylene	ug/L	100	107	107	67-137	
Methyl-tert-butyl ether	ug/L	100	90.6	91	59-130	
Methylene Chloride	ug/L	50	53.6	107	61-147	
Naphthalene	ug/L	50	43.3	87	48-144	
o-Xylene	ug/L	50	52.1	104	52-141	
p-Isopropyltoluene	ug/L	50	50.9	102	58-137	
Styrene	ug/L	50	54.6	109	77-128	
Tetrachloroethene	ug/L	50	47.6	95	51-139	
Toluene	ug/L	50	51.5	103	60-133	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	69-144	
trans-1,3-Dichloropropene	ug/L	50	43.7	87	74-128	
Trichloroethene	ug/L	50	51.6	103	73-126	
Trichlorofluoromethane	ug/L	50	71.8	144	55-132 L1	
Vinyl acetate	ug/L	50	52.5	105	52-141	
Vinyl chloride	ug/L	50	54.1	108	50-133	
Xylene (Total)	ug/L	150	159	106	78-132	
1,2-Dichloroethane-d4 (S)	%			104	81-119	
4-Bromofluorobenzene (S)	%			91	82-120	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper/GA 6572-0001

Pace Project No.: 267576

LABORATORY CONTROL SAMPLE: 48483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			103	82-114	
Toluene-d8 (S)	%.			102	82-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 48484 48485

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		267576013 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	49.6	51.4	99	103	68-137	3	11	
1,1,1-Trichloroethane	ug/L	ND	50	50	48.4	49.0	97	98	66-142	1	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.2	60.0	110	120	39-171	8	13	
1,1,2-Trichloroethane	ug/L	ND	50	50	54.2	55.4	108	111	73-136	2	12	
1,1-Dichloroethane	ug/L	ND	50	50	58.3	60.2	117	120	66-155	3	15	
1,1-Dichloroethene	ug/L	ND	50	50	66.5	63.8	133	128	33-181	4	34	
1,1-Dichloropropene	ug/L	ND	50	50	49.7	49.1	99	98	70-133	1	12	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.6	54.5	99	109	73-130	9	22	
1,2,3-Trichloropropane	ug/L	ND	50	50	41.1	43.6	82	87	78-133	6	14	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.9	51.6	96	103	44-164	7	13	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	38.5	43.9	77	88	58-124	13	15	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.2	57.0	112	114	71-134	1	12	
1,2-Dichlorobenzene	ug/L	ND	50	50	51.3	54.0	103	108	69-135	5	10	
1,2-Dichloroethane	ug/L	ND	50	50	54.6	55.4	109	111	36-159	1	10	
1,2-Dichloropropane	ug/L	ND	50	50	53.3	53.8	107	108	68-132	1	11	
1,3-Dichlorobenzene	ug/L	ND	50	50	51.2	51.9	102	104	68-135	1	10	
1,3-Dichloropropane	ug/L	ND	50	50	59.1	58.9	118	118	70-138	0	10	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.0	52.1	100	104	49-153	4	9	
2,2-Dichloropropane	ug/L	ND	50	50	33.5	35.1	67	70	34-170	5	9	
2-Butanone (MEK)	ug/L	ND	100	100	92.4	96.4	92	96	10-189	4	23	
2-Chlorotoluene	ug/L	ND	50	50	52.5	53.2	105	106	77-128	1	10	
2-Hexanone	ug/L	ND	100	100	94.2	102	94	102	40-135	7	18	
4-Chlorotoluene	ug/L	ND	50	50	53.5	54.2	107	108	79-126	1	10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	89.2	95.6	89	96	30-177	7	10	
Acetone	ug/L	ND	100	100	90.9	83.6	90	83	44-223	8	14	
Benzene	ug/L	ND	50	50	54.4	54.9	109	110	66-139	1	10	
Bromobenzene	ug/L	ND	50	50	50.1	51.6	100	103	75-122	3	12	
Bromochloromethane	ug/L	ND	50	50	54.5	55.8	109	112	73-133	2	13	
Bromodichloromethane	ug/L	ND	50	50	47.5	49.1	95	98	57-120	3	13	
Bromoform	ug/L	ND	50	50	40.1	43.2	80	86	48-128	7	13	
Bromomethane	ug/L	ND	50	50	61.4	60.9	123	122	10-187	1	32	
Carbon tetrachloride	ug/L	ND	50	50	48.6	48.7	97	97	58-127	0	14	
Chlorobenzene	ug/L	ND	50	50	57.1	58.6	114	117	63-137	3	10	
Chloroethane	ug/L	ND	50	50	52.1	49.1	104	98	52-146	6	16	
Chloroform	ug/L	ND	50	50	54.9	55.2	110	110	74-137	1	9	
Chloromethane	ug/L	ND	50	50	62.6	59.1	125	118	41-127	6	10	
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.2	54.4	110	109	71-138	1	16	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Parameter	Units	48484		48485		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		267576013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.7	47.0	91	94	32-145	3	12		
Dibromochloromethane	ug/L	ND	50	50	46.3	47.3	93	95	52-116	2	13		
Dibromomethane	ug/L	ND	50	50	52.4	54.0	105	108	79-129	3	14		
Dichlorodifluoromethane	ug/L	ND	50	50	56.1	52.0	112	104	36-126	8	15		
Diisopropyl ether	ug/L	ND	50	50	51.4	53.2	103	106	70-130	3	20		
Ethylbenzene	ug/L	ND	50	50	54.3	55.2	109	110	31-174	2	10		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	53.5	54.8	107	110	58-142	2	11		
m&p-Xylene	ug/L	ND	100	100	108	109	108	109	27-179	1	10		
Methyl-tert-butyl ether	ug/L	ND	100	100	97.1	95.2	97	95	38-120	2	12		
Methylene Chloride	ug/L	ND	50	50	59.8	60.2	120	120	61-146	1	15		
Naphthalene	ug/L	ND	50	50	45.2	51.6	90	103	25-159	13	14		
o-Xylene	ug/L	ND	50	50	55.3	55.9	111	112	52-141	1	65		
p-Isopropyltoluene	ug/L	ND	50	50	47.9	47.6	96	95	59-134	1	9		
Styrene	ug/L	ND	50	50	50.8	53.8	102	108	77-128	6	14		
Tetrachloroethene	ug/L	39.5	50	50	94.4	90.9	110	103	36-155	4	14		
Toluene	ug/L	ND	50	50	55.0	54.5	110	109	52-146	1	11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.1	59.0	110	118	61-152	7	14		
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.7	43.6	85	87	37-146	2	12		
Trichloroethene	ug/L	ND	50	50	52.3	51.8	103	102	61-141	1	12		
Trichlorofluoromethane	ug/L	ND	50	50	61.8	59.4	124	119	51-141	4	13		
Vinyl acetate	ug/L	ND	50	50	49.5	51.2	99	102	52-141	3	14		
Vinyl chloride	ug/L	ND	50	50	52.2	49.8	104	100	22-156	5	26		
Xylene (Total)	ug/L	ND	150	150	164	165	109	110	78-132	1	7		
1,2-Dichloroethane-d4 (S)	%.						100	100	81-119				
4-Bromofluorobenzene (S)	%.						95	93	82-120				
Dibromofluoromethane (S)	%.						101	103	82-114				
Toluene-d8 (S)	%.						104	105	82-109				

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## QUALIFIERS

Project: Roper/GA 6572-0001

Pace Project No.: 267576

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Roper/GA 6572-0001

Pace Project No.: 267576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
267576001	MW-19	EPA 8260B	10582		
267576002	MW-3	EPA 8260B	10582		
267576003	MW-21D	EPA 8260B	10582		
267576004	MW-12D	EPA 8260B	10582		
267576005	MW-6D	EPA 8260B	10582		
267576006	MW-4I	EPA 8260B	10582		
267576007	MW-20	EPA 8260B	10582		
267576008	MW-6	EPA 8260B	10582		
267576009	MW-9S	EPA 8260B	10582		
267576010	MW-9D	EPA 8260B	10582		
267576011	MW-6DS	EPA 8260B	10582		
267576012	Dup-1	EPA 8260B	10582		
267576013	MW-8	EPA 8260B	10699		
267576014	MW-16	EPA 8260B	10699		
267576015	MW-23	EPA 8260B	10699		
267576016	MW-17	EPA 8260B	10699		
267576017	MW-15D	EPA 8260B	10699		
267576018	MW-21	EPA 8260B	10699		
267576019	MW-13D	EPA 8260B	10699		
267576020	MW-12	EPA 8260B	10699		
267576021	MW-7	EPA 8260B	10699		
267576022	Dup-2	EPA 8260B	10699		
267576023	MW-13	EPA 8260B	10699		
267576024	MW-22	EPA 8260B	10699		
267576025	MW-11	EPA 8260B	10699		
267576026	Trip Blank	EPA 8260B	10699		

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Pace Analytical Services, LLC - Atlanta GA  
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092  
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 3

CHAIN OF CUSTODY RECORD

CLIENT NAME: WENCK		ANALYSIS REQUESTED		CONTAINER TYPE:	PRESERVATION:	CONTAINER TYPE:	PRESERVATION:	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1080 HOLCOMB BRIDGE RD. BLDG 100 STE. 190. ROSWELL, GA 30076 / 678-987-5840		CONTAINER TYPE:		PRESERVATION:	CONTAINER TYPE:	PRESERVATION:	PRESERVATION:	
REPORT TO:	CC:	# of	CONTAINER TYPE:	PRESERVATION:	CONTAINER TYPE:	PRESERVATION:	PRESERVATION:	
Kross@wenck.com	m.padgett@wenck.com							
REQUESTED COMPLETION DATE:	PO #:	CONTAINER TYPE:		PRESERVATION:	CONTAINER TYPE:	PRESERVATION:	PRESERVATION:	
STANDARD								
PROJECT NAME/STATE:	PROJECT #:	CONTAINER TYPE:		PRESERVATION:	CONTAINER TYPE:	PRESERVATION:	PRESERVATION:	
ROPER / GA	6572-0001							
Collection DATE	Collection TIME	MATRIX CODE*	GRAB	SAMPLE IDENTIFICATION	CONTAINER TYPE:	PRESERVATION:	CONTAINER TYPE:	PRESERVATION:
7-24-18	0920	GW	X	MW-19				
	1020	GW	X	MW-3				
	1130	GW	X	MW-21D				
	1305	GW	X	MW-12D				
	1535	GW	X	MW-6P				
	1655	GW	X	MW-4I				
	1000	GW	X	MW-20				
	1150	GW	X	MW-6				
	1335	GW	X	MW-9S				
	1610	GW	X	MW-9D				
	1835	GW	X	MW-6DS				
7-25-18		GW	X	DUP-1				
SAMPLED BY AND TITLE:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	
Mark Padgett / Wenck	7-26-18 1040	7-26-18 1040	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	
RECEIVED BY:	REINQUISHED BY:	REINQUISHED BY:	REINQUISHED BY:	REINQUISHED BY:	REINQUISHED BY:	REINQUISHED BY:	REINQUISHED BY:	
Charles Jenks	Mark Padgett / Wenck	Mark Padgett	Mark Padgett	Mark Padgett	Mark Padgett	Mark Padgett	Mark Padgett	
RECEIVED BY LAB:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:	
Charles Jenks	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	7-26-18 1242	
pH checked:	Temperature:	Min:	Max:	Intact:	Broken:	Not Present:	N/A:	
	4.3							

WO#: 267576  

 267576

**CHAIN OF CUSTODY RECORD**

CLIENT NAME: **WENCK**

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:  
**1090 Holcomb Bridge Road, Suite 1910  
Roswell, GA 30076**

REPORT TO: **MPedgett@wcnk.com**  
CC: **kross@wcnk.com**

REQUESTED COMPLETION DATE:  
**Standard**

PROJECT NAME/STATE:  
**Roper Pump**

PROJECT #:  
**B6572-0001**

Collection DATE	Collection TIME	MATRIX CODE	C O M P	G R A B	SAMPLE IDENTIFICATION
7-25-18	0815	GW	X	X	MW-8
	0930	GW	X	X	MW-16
	1200	GW	X	X	MW-23
	1100	GW	X	X	MW-17
	1215	GW	X	X	MW-15D
	1450	GW	X	X	MW-21
	1335	GW	X	X	MW-13D
	1535	GW	X	X	MW-12
	1550	GW	X	X	MW-7
	---	GW	X	X	DUP-2
7-26-18	0925	GW	X	X	MW-13
7-26-18	1020	GW	X	X	MW-22

RECEIVED BY: **Mark Pedgett/Wenck**

DATE/TIME: **7-26-18 1040**

DATE/TIME: **7-26-18 1242**

TEMPERATURE: **Min 5°C Max 30°C**

RECEIVED BY LAB: **Mark Pedgett/Wenck**

DATE/TIME: **7-26-18 1242**

TEMPERATURE: **Min 5°C Max 30°C**

CONTAINER TYPE	ANALYSIS REQUESTED	DATE/TIME	RELINQUISHED BY
<b>V</b>			<b>Mark Pedgett</b>
<b>H</b>			
<b>3</b>	<b>VOL-8260</b>		
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			
<b>3</b>			

L A B I D N U M B E R	CONTAINER TYPE	PRESERVATION	REMARKS/ADDITIONAL INFORMATION
<b>13</b>	<b>P - PLASTIC</b>	<b>1 - HCl, ≤6°C</b>	
<b>14</b>	<b>A - AMBER GLASS</b>	<b>2 - H<sub>2</sub>SO<sub>4</sub>, ≤6°C</b>	
<b>15</b>	<b>G - CLEAR GLASS</b>	<b>3 - HNO<sub>3</sub></b>	
<b>16</b>	<b>V - VOA VIAL</b>	<b>4 - NaOH, ≤6°C</b>	
<b>17</b>	<b>S - STERILE</b>	<b>5 - NaOH/ZnAc, ≤6°C</b>	
<b>18</b>	<b>O - OTHER</b>	<b>6 - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, ≤6°C</b>	
<b>19</b>		<b>7 - ≤6°C not frozen</b>	
<b>20</b>			
<b>21</b>			
<b>22</b>			
<b>23</b>			
<b>24</b>			

LAB #: \_\_\_\_\_

ENTERED INTO LIMS: \_\_\_\_\_

TRACKING #: \_\_\_\_\_

**WO#: 267576**

PM: EDB  
CLIENT: WENCK

Due Date: 08/02/18



CHAIN OF CUSTODY RECORD

Pace Analytical Services, LLC - Atlanta GA  
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092  
(770) 734-4200 : FAX (770) 734-4201

PAGE: 3 OF 3

CLIENT NAME: <u>Wenck</u>		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: <u>1030 Holcomb Bridge Road, Suite 140 Roswell, GA 30076</u>		# of CONTAINERS → <u>3</u>		P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER		1 - HCl, ≤6°C 2 - H <sub>2</sub> SO <sub>4</sub> , ≤6°C 3 - HNO <sub>3</sub> 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , ≤6°C 7 - ≤6°C not frozen	
REPORT TO: <u>mpadge@wenck.com</u>	CC: <u>kross@wenck.com</u>	PO #:		*MATRIX CODES:			
REQUESTED COMPLETION DATE: <u>Standard</u>				DW - DRINKING WATER WW - WASTEWATER GW - GROUNDWATER SW - SURFACE WATER ST - STORM WATER W - WATER	S - SOIL SL - SLUDGE SD - SOLID A - AIR L - LIQUID P - PRODUCT	REMARKS/ADDITIONAL INFORMATION	
PROJECT NAME/STATE: <u>Roper Pump</u>						25 He Trip Blank	
PROJECT #: <u>B6572-0001</u>							
Collection DATE	Collection TIME	MATRIX CODE	COMPARISON	SAMPLE IDENTIFICATION			
<u>7-25-19</u>	<u>0945</u>	<u>GW</u>	<u>X</u>	<u>MW-11</u>			
SAMPLED BY AND TITLE: <u>Mark Padgett / Wenck</u>	DATE/TIME: <u>7-26-19 1040</u>	RELINQUISHED BY: <u>Mark Padgett</u>	DATE/TIME: <u>7-26-19 1242</u>	LAB #:	FOR LAB USE ONLY		
RECEIVED BY: <u>Charles Hank</u>	DATE/TIME: <u>7/26/19 1257</u>	RELINQUISHED BY:	DATE/TIME:				
pH checked: <u>NA</u>	Temperature: <u>43°C</u> (Max)	SAMPLE SHIPPED VIA: UPS <input type="checkbox"/> FED-EX <input type="checkbox"/> USPS <input type="checkbox"/> COURIER <input type="checkbox"/> CLIENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER <input type="checkbox"/>	DATE/TIME:				
Yes No	Intact Broken Not Present <input checked="" type="checkbox"/>	# of Coolers	DATE/TIME:				

**WO#: 267576**  
 Entered into LIMS: [ ]  
 Tracking #: [ ]  
 Due Date: 08/02/18  
 PM: EDB  
 CLIENT: WENCK



Sample Condition Upon Receipt

Client Name: Wenck

WO#: 267576

Due Date: 08/02/18

PM: EDB

CLIENT: WENCK

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: \_\_\_\_\_

Proj. Name: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used THR 082  
Cooler Temperature 4.3C

Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 7/26/18 COH

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GW</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. Trip Blank not listed on COC but present in cooler
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 12, 2018

Katie Ross  
WENCK Associates  
1080 Holcomb Bridge Rd.  
Roswell, GA 30076

RE: Project: Roper Pump B6572-0001  
Pace Project No.: 2610138

Dear Katie Ross:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Eben Buchanan  
eben.buchanan@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Mark Padgett, WENCK Associates  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Texas Certification #: T104704397-08-TX

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
2610138001	MW-19I	Water	10/04/18 10:35	10/05/18 11:00
2610138002	MW-8I	Water	10/04/18 13:35	10/05/18 11:00
2610138003	Trip Blank	Water	10/04/18 00:00	10/05/18 11:00

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**SAMPLE ANALYTE COUNT**

Project: Roper Pump B6572-0001  
Pace Project No.: 2610138

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2610138001	MW-19I	EPA 8260B	LIH	64
2610138002	MW-8I	EPA 8260B	LIH	64
2610138003	Trip Blank	EPA 8260B	RAC	64

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: MW-191	Lab ID: 2610138001	Collected: 10/04/18 10:35	Received: 10/05/18 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		10/11/18 20:36	67-64-1	
Benzene	ND	ug/L	1.0	1		10/11/18 20:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/11/18 20:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/11/18 20:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/11/18 20:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/11/18 20:36	75-25-2	R1
Bromomethane	ND	ug/L	2.0	1		10/11/18 20:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/11/18 20:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/11/18 20:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/11/18 20:36	75-00-3	
Chloroform	2.1	ug/L	1.0	1		10/11/18 20:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/11/18 20:36	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		10/11/18 20:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/11/18 20:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		10/11/18 20:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/11/18 20:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		10/11/18 20:36	106-93-4	R1
Dibromomethane	ND	ug/L	1.0	1		10/11/18 20:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/11/18 20:36	75-71-8	L1,M0
1,1-Dichloroethane	ND	ug/L	1.0	1		10/11/18 20:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/11/18 20:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/11/18 20:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/11/18 20:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/11/18 20:36	156-60-5	M1
1,2-Dichloropropane	ND	ug/L	1.0	1		10/11/18 20:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/11/18 20:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/11/18 20:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/11/18 20:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/18 20:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/18 20:36	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		10/11/18 20:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/11/18 20:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		10/11/18 20:36	87-68-3	R1
2-Hexanone	ND	ug/L	5.0	1		10/11/18 20:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/11/18 20:36	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/11/18 20:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/11/18 20:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		10/11/18 20:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/11/18 20:36	91-20-3	
Styrene	ND	ug/L	1.0	1		10/11/18 20:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/11/18 20:36	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/11/18 20:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/11/18 20:36	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: MW-191		Lab ID: 2610138001		Collected: 10/04/18 10:35		Received: 10/05/18 11:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		10/11/18 20:36	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	87-61-6	M1	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/11/18 20:36	120-82-1	R1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/11/18 20:36	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/11/18 20:36	79-00-5		
Trichloroethene	4.7	ug/L	1.0	1		10/11/18 20:36	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/11/18 20:36	75-69-4	M1	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/11/18 20:36	96-18-4	M1	
Vinyl acetate	ND	ug/L	2.0	1		10/11/18 20:36	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/11/18 20:36	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		10/11/18 20:36	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		10/11/18 20:36	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/11/18 20:36	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%.	81-119	1		10/11/18 20:36	17060-07-0		
Dibromofluoromethane (S)	96	%.	82-114	1		10/11/18 20:36	1868-53-7		
4-Bromofluorobenzene (S)	96	%.	82-120	1		10/11/18 20:36	460-00-4		
Toluene-d8 (S)	94	%.	82-109	1		10/11/18 20:36	2037-26-5		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: MW-8I	Lab ID: 2610138002	Collected: 10/04/18 13:35	Received: 10/05/18 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		10/11/18 21:02	67-64-1	
Benzene	ND	ug/L	1.0	1		10/11/18 21:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/11/18 21:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/11/18 21:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/11/18 21:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/11/18 21:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/11/18 21:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/11/18 21:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/11/18 21:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/11/18 21:02	75-00-3	
Chloroform	<b>5.6</b>	ug/L	1.0	1		10/11/18 21:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/11/18 21:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/11/18 21:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/11/18 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		10/11/18 21:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/11/18 21:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		10/11/18 21:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/11/18 21:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/11/18 21:02	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	1		10/11/18 21:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/11/18 21:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/11/18 21:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/11/18 21:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/11/18 21:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/11/18 21:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/11/18 21:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/11/18 21:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/11/18 21:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/18 21:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/18 21:02	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		10/11/18 21:02	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/11/18 21:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		10/11/18 21:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/11/18 21:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/11/18 21:02	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/11/18 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/11/18 21:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		10/11/18 21:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/11/18 21:02	91-20-3	
Styrene	ND	ug/L	1.0	1		10/11/18 21:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/11/18 21:02	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/11/18 21:02	79-34-5	
Tetrachloroethene	<b>17.0</b>	ug/L	1.0	1		10/11/18 21:02	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: MW-8I		Lab ID: 2610138002		Collected: 10/04/18 13:35	Received: 10/05/18 11:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Toluene	ND	ug/L	1.0	1		10/11/18 21:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/11/18 21:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/11/18 21:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/11/18 21:02	79-00-5	
Trichloroethene	<b>6.0</b>	ug/L	1.0	1		10/11/18 21:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/11/18 21:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/11/18 21:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/11/18 21:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/11/18 21:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		10/11/18 21:02	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/11/18 21:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/11/18 21:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%.	81-119	1		10/11/18 21:02	17060-07-0	
Dibromofluoromethane (S)	94	%.	82-114	1		10/11/18 21:02	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120	1		10/11/18 21:02	460-00-4	
Toluene-d8 (S)	95	%.	82-109	1		10/11/18 21:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: Trip Blank	Lab ID: 2610138003	Collected: 10/04/18 00:00	Received: 10/05/18 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		10/12/18 15:22	67-64-1	
Benzene	ND	ug/L	1.0	1		10/12/18 15:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/12/18 15:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/12/18 15:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/18 15:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/18 15:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/12/18 15:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/18 15:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/18 15:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/18 15:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/12/18 15:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/18 15:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/12/18 15:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/12/18 15:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		10/12/18 15:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/18 15:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	1		10/12/18 15:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/12/18 15:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/18 15:22	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/18 15:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/18 15:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/18 15:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/18 15:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/18 15:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/18 15:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/12/18 15:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/12/18 15:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/12/18 15:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/18 15:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/18 15:22	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1		10/12/18 15:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/12/18 15:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1		10/12/18 15:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/12/18 15:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/12/18 15:22	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/12/18 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/18 15:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1		10/12/18 15:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/12/18 15:22	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/18 15:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/12/18 15:22	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/12/18 15:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/18 15:22	127-18-4	

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## ANALYTICAL RESULTS

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Sample: Trip Blank		Lab ID: 2610138003		Collected: 10/04/18 00:00		Received: 10/05/18 11:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		10/12/18 15:22	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/12/18 15:22	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/18 15:22	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/18 15:22	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/12/18 15:22	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/18 15:22	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/12/18 15:22	96-18-4		
Vinyl acetate	ND	ug/L	2.0	1		10/12/18 15:22	108-05-4		
Vinyl chloride	ND	ug/L	1.0	1		10/12/18 15:22	75-01-4		
Xylene (Total)	ND	ug/L	2.0	1		10/12/18 15:22	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		10/12/18 15:22	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/12/18 15:22	95-47-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%.	81-119	1		10/12/18 15:22	17060-07-0		
Dibromofluoromethane (S)	99	%.	82-114	1		10/12/18 15:22	1868-53-7		
4-Bromofluorobenzene (S)	108	%.	82-120	1		10/12/18 15:22	460-00-4		
Toluene-d8 (S)	109	%.	82-109	1		10/12/18 15:22	2037-26-5		

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### QUALITY CONTROL DATA

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

QC Batch: 15188 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV  
Associated Lab Samples: 2610138001, 2610138002, 2610138003

METHOD BLANK: 67935 Matrix: Water

Associated Lab Samples: 2610138001, 2610138002, 2610138003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,1-Dichloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,1-Dichloroethene	ug/L	ND	1.0	10/11/18 19:20	
1,1-Dichloropropene	ug/L	ND	1.0	10/11/18 19:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/11/18 19:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	10/11/18 19:20	
1,2-Dibromoethane (EDB)	ug/L	ND	2.0	10/11/18 19:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
1,2-Dichloroethane	ug/L	ND	1.0	10/11/18 19:20	
1,2-Dichloropropane	ug/L	ND	1.0	10/11/18 19:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
1,3-Dichloropropane	ug/L	ND	1.0	10/11/18 19:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
2,2-Dichloropropane	ug/L	ND	1.0	10/11/18 19:20	
2-Butanone (MEK)	ug/L	ND	5.0	10/11/18 19:20	
2-Chlorotoluene	ug/L	ND	1.0	10/11/18 19:20	
2-Hexanone	ug/L	ND	5.0	10/11/18 19:20	
4-Chlorotoluene	ug/L	ND	1.0	10/11/18 19:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/11/18 19:20	
Acetone	ug/L	ND	25.0	10/11/18 19:20	
Benzene	ug/L	ND	1.0	10/11/18 19:20	
Bromobenzene	ug/L	ND	1.0	10/11/18 19:20	
Bromochloromethane	ug/L	ND	1.0	10/11/18 19:20	
Bromodichloromethane	ug/L	ND	1.0	10/11/18 19:20	
Bromoform	ug/L	ND	1.0	10/11/18 19:20	
Bromomethane	ug/L	ND	2.0	10/11/18 19:20	
Carbon tetrachloride	ug/L	ND	1.0	10/11/18 19:20	
Chlorobenzene	ug/L	ND	1.0	10/11/18 19:20	
Chloroethane	ug/L	ND	1.0	10/11/18 19:20	
Chloroform	ug/L	ND	1.0	10/11/18 19:20	
Chloromethane	ug/L	ND	1.0	10/11/18 19:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/11/18 19:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/11/18 19:20	
Dibromochloromethane	ug/L	ND	1.0	10/11/18 19:20	
Dibromomethane	ug/L	ND	1.0	10/11/18 19:20	
Dichlorodifluoromethane	ug/L	ND	1.0	10/11/18 19:20	

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### QUALITY CONTROL DATA

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

METHOD BLANK: 67935

Matrix: Water

Associated Lab Samples: 2610138001, 2610138002, 2610138003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	10.0	10/11/18 19:20	
Ethylbenzene	ug/L	ND	1.0	10/11/18 19:20	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/11/18 19:20	
m&p-Xylene	ug/L	ND	1.0	10/11/18 19:20	
Methyl-tert-butyl ether	ug/L	ND	10.0	10/11/18 19:20	
Methylene Chloride	ug/L	ND	1.0	10/11/18 19:20	
Naphthalene	ug/L	ND	1.0	10/11/18 19:20	
o-Xylene	ug/L	ND	1.0	10/11/18 19:20	
p-Isopropyltoluene	ug/L	ND	1.0	10/11/18 19:20	
Styrene	ug/L	ND	1.0	10/11/18 19:20	
Tetrachloroethene	ug/L	ND	1.0	10/11/18 19:20	
Toluene	ug/L	ND	1.0	10/11/18 19:20	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/11/18 19:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/11/18 19:20	
Trichloroethene	ug/L	ND	1.0	10/11/18 19:20	
Trichlorofluoromethane	ug/L	ND	1.0	10/11/18 19:20	
Vinyl acetate	ug/L	ND	2.0	10/11/18 19:20	
Vinyl chloride	ug/L	ND	1.0	10/11/18 19:20	
Xylene (Total)	ug/L	ND	2.0	10/11/18 19:20	
1,2-Dichloroethane-d4 (S)	%	85	81-119	10/11/18 19:20	
4-Bromofluorobenzene (S)	%	93	82-120	10/11/18 19:20	
Dibromofluoromethane (S)	%	84	82-114	10/11/18 19:20	
Toluene-d8 (S)	%	95	82-109	10/11/18 19:20	

LABORATORY CONTROL SAMPLE: 67936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.0	92	68-137	
1,1,1-Trichloroethane	ug/L	50	46.1	92	72-134	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	51-158	
1,1,2-Trichloroethane	ug/L	50	49.8	100	78-131	
1,1-Dichloroethane	ug/L	50	49.0	98	69-151	
1,1-Dichloroethene	ug/L	50	68.6	137	64-158	
1,1-Dichloropropene	ug/L	50	41.7	83	70-133	
1,2,3-Trichlorobenzene	ug/L	50	43.0	86	73-130	
1,2,3-Trichloropropane	ug/L	50	43.8	88	78-133	
1,2,4-Trichlorobenzene	ug/L	50	41.7	83	51-163	
1,2-Dibromo-3-chloropropane	ug/L	50	43.2	86	58-124	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	71-134	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-135	
1,2-Dichloroethane	ug/L	50	48.5	97	72-129	
1,2-Dichloropropane	ug/L	50	53.1	106	64-135	
1,3-Dichlorobenzene	ug/L	50	51.7	103	71-134	
1,3-Dichloropropane	ug/L	50	50.3	101	70-140	

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### QUALITY CONTROL DATA

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

LABORATORY CONTROL SAMPLE: 67936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-131	
2,2-Dichloropropane	ug/L	50	45.0	90	34-170	
2-Butanone (MEK)	ug/L	100	119	119	52-143	
2-Chlorotoluene	ug/L	50	53.3	107	77-128	
2-Hexanone	ug/L	100	117	117	61-136	
4-Chlorotoluene	ug/L	50	53.8	108	79-126	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	71-129	
Acetone	ug/L	100	118	118	48-224	
Benzene	ug/L	50	50.4	101	68-132	
Bromobenzene	ug/L	50	46.2	92	75-122	
Bromochloromethane	ug/L	50	43.9	88	73-133	
Bromodichloromethane	ug/L	50	43.6	87	67-121	
Bromoform	ug/L	50	39.1	78	57-125	
Bromomethane	ug/L	50	62.8	126	35-156	
Carbon tetrachloride	ug/L	50	52.3	105	66-122	
Chlorobenzene	ug/L	50	47.8	96	71-126	
Chloroethane	ug/L	50	61.6	123	43-143	
Chloroform	ug/L	50	46.1	92	71-136	
Chloromethane	ug/L	50	60.1	120	47-123	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	74-131	
cis-1,3-Dichloropropene	ug/L	50	42.9	86	78-120	
Dibromochloromethane	ug/L	50	48.4	97	65-115	
Dibromomethane	ug/L	50	46.9	94	79-129	
Dichlorodifluoromethane	ug/L	50	72.1	144	29-124	L1
Diisopropyl ether	ug/L	50	52.3	105	70-130	
Ethylbenzene	ug/L	50	45.6	91	68-129	
Hexachloro-1,3-butadiene	ug/L	50	43.8	88	58-142	
m&p-Xylene	ug/L	100	96.0	96	67-137	
Methyl-tert-butyl ether	ug/L	100	126	126	59-130	
Methylene Chloride	ug/L	50	64.6	129	61-147	
Naphthalene	ug/L	50	57.8	116	48-144	
o-Xylene	ug/L	50	45.6	91	52-141	
p-Isopropyltoluene	ug/L	50	51.0	102	58-137	
Styrene	ug/L	50	47.9	96	77-128	
Tetrachloroethene	ug/L	50	48.5	97	51-139	
Toluene	ug/L	50	52.7	105	60-133	
trans-1,2-Dichloroethene	ug/L	50	68.3	137	69-144	
trans-1,3-Dichloropropene	ug/L	50	39.0	78	74-128	
Trichloroethene	ug/L	50	45.1	90	73-126	
Trichlorofluoromethane	ug/L	50	60.5	121	55-132	
Vinyl acetate	ug/L	50	49.8	100	52-141	
Vinyl chloride	ug/L	50	59.2	118	50-133	
Xylene (Total)	ug/L	150	142	94	78-132	
1,2-Dichloroethane-d4 (S)	%			97	81-119	
4-Bromofluorobenzene (S)	%			93	82-120	
Dibromofluoromethane (S)	%			99	82-114	
Toluene-d8 (S)	%			94	82-109	

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### QUALITY CONTROL DATA

Project: Roper Pump B6572-0001  
Pace Project No.: 2610138

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 67937												67938											
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max		Qual									
		2610138001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD												
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	45.3	44.8	91	90	68-137	1	11												
1,1,1-Trichloroethane	ug/L	ND	50	50	49.6	49.3	99	99	66-142	0	11												
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.4	41.5	89	83	39-171	7	13												
1,1,2-Trichloroethane	ug/L	ND	50	50	52.1	52.2	104	104	73-136	0	12												
1,1-Dichloroethane	ug/L	ND	50	50	54.1	50.3	108	101	66-155	7	15												
1,1-Dichloroethene	ug/L	ND	50	50	87.2	82.0	174	164	33-181	6	34												
1,1-Dichloropropene	ug/L	ND	50	50	50.0	49.1	100	98	70-133	2	12												
1,2,3-Trichlorobenzene	ug/L	ND	50	50	33.3	36.7	67	73	73-130	10	22	M1											
1,2,3-Trichloropropane	ug/L	ND	50	50	35.7	32.7	71	65	78-133	9	14	M1											
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.4	40.9	69	82	44-164	17	13	R1											
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	34.1	34.1	68	68	58-124	0	15												
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.6	52.9	121	106	71-134	14	12	R1											
1,2-Dichlorobenzene	ug/L	ND	50	50	49.4	49.4	99	99	69-135	0	10												
1,2-Dichloroethane	ug/L	ND	50	50	48.1	46.6	96	93	36-159	3	10												
1,2-Dichloropropane	ug/L	ND	50	50	56.8	52.1	114	104	68-132	9	11												
1,3-Dichlorobenzene	ug/L	ND	50	50	50.4	51.1	101	102	68-135	1	10												
1,3-Dichloropropane	ug/L	ND	50	50	51.1	50.4	102	101	70-138	1	10												
1,4-Dichlorobenzene	ug/L	ND	50	50	46.7	47.2	93	94	49-153	1	9												
2,2-Dichloropropane	ug/L	ND	50	50	39.8	39.1	80	78	34-170	2	9												
2-Butanone (MEK)	ug/L	ND	100	100	80.5	78.8	80	79	10-189	2	23												
2-Chlorotoluene	ug/L	ND	50	50	52.3	52.8	105	106	77-128	1	10												
2-Hexanone	ug/L	ND	100	100	93.2	88.0	93	88	40-135	6	18												
4-Chlorotoluene	ug/L	ND	50	50	52.4	51.5	105	103	79-126	2	10												
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	87.6	79.7	88	80	30-177	9	10												
Acetone	ug/L	ND	100	100	98.6	91.5	99	91	44-223	8	14												
Benzene	ug/L	ND	50	50	54.9	52.7	110	105	66-139	4	10												
Bromobenzene	ug/L	ND	50	50	45.8	41.8	92	84	75-122	9	12												
Bromochloromethane	ug/L	ND	50	50	47.7	44.3	95	89	73-133	8	13												
Bromodichloromethane	ug/L	ND	50	50	47.8	45.1	96	90	57-120	6	13												
Bromoform	ug/L	ND	50	50	59.4	44.8	119	90	48-128	28	13	R1											
Bromomethane	ug/L	ND	50	50	91.0	72.2	182	144	10-187	23	32												
Carbon tetrachloride	ug/L	ND	50	50	58.5	56.8	117	114	58-127	3	14												
Chlorobenzene	ug/L	ND	50	50	48.2	46.2	96	92	63-137	4	10												
Chloroethane	ug/L	ND	50	50	71.9	70.0	144	140	52-146	3	16												
Chloroform	ug/L	2.1	50	50	51.5	49.7	99	95	74-137	4	9												
Chloromethane	ug/L	ND	50	50	68.3	66.6	137	133	41-127	3	10	M1											
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.9	49.6	104	98	71-138	6	16												
cis-1,3-Dichloropropene	ug/L	ND	50	50	40.9	39.9	82	80	32-145	3	12												
Dibromochloromethane	ug/L	ND	50	50	51.0	50.0	102	100	52-116	2	13												
Dibromomethane	ug/L	ND	50	50	44.4	43.1	89	86	79-129	3	14												
Dichlorodifluoromethane	ug/L	ND	50	50	118	116	236	231	36-126	2	15	M0											
Diisopropyl ether	ug/L	ND	50	50	53.7	50.3	107	101	70-130	6	20												
Ethylbenzene	ug/L	ND	50	50	48.7	47.2	97	94	31-174	3	10												
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.2	43.4	72	87	58-142	18	11	R1											

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Roper Pump B6572-0001  
Pace Project No.: 2610138

Parameter	Units	67937		67938		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
m&p-Xylene	ug/L	ND	100	100	102	96.1	102	96	27-179	6	10		
Methyl-tert-butyl ether	ug/L	ND	100	100	119	112	119	112	38-120	6	12		
Methylene Chloride	ug/L	ND	50	50	70.1	66.0	140	132	61-146	6	15		
Naphthalene	ug/L	ND	50	50	39.8	45.7	80	91	25-159	14	14		
o-Xylene	ug/L	ND	50	50	46.7	45.5	93	91	52-141	3	65		
p-Isopropyltoluene	ug/L	ND	50	50	52.2	49.9	104	100	59-134	5	9		
Styrene	ug/L	ND	50	50	48.5	47.6	97	95	77-128	2	14		
Tetrachloroethene	ug/L	ND	50	50	52.7	54.3	104	108	36-155	3	14		
Toluene	ug/L	ND	50	50	56.9	56.1	114	112	52-146	1	11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	83.3	78.0	167	156	61-152	7	14	M1	
trans-1,3-Dichloropropene	ug/L	ND	50	50	38.5	37.0	77	74	37-146	4	12		
Trichloroethene	ug/L	4.7	50	50	55.3	55.3	101	101	61-141	0	12		
Trichlorofluoromethane	ug/L	ND	50	50	73.8	77.9	148	156	51-141	5	13	M1	
Vinyl acetate	ug/L	ND	50	50	35.1	39.8	70	80	52-141	13	14		
Vinyl chloride	ug/L	ND	50	50	76.6	71.0	153	142	22-156	8	26		
Xylene (Total)	ug/L	ND	150	150	149	142	99	94	78-132	5	7		
1,2-Dichloroethane-d4 (S)	%.						100	96	81-119				
4-Bromofluorobenzene (S)	%.						88	92	82-120				
Dibromofluoromethane (S)	%.						104	97	82-114				
Toluene-d8 (S)	%.						93	91	82-109				

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## QUALIFIERS

Project: Roper Pump B6572-0001  
Pace Project No.: 2610138

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| L1 | Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.   |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.                                     |
| R1 | RPD value was outside control limits.   |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Roper Pump B6572-0001

Pace Project No.: 2610138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2610138001	MW-19I	EPA 8260B	15188		
2610138002	MW-8I	EPA 8260B	15188		
2610138003	Trip Blank	EPA 8260B	15188		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information: Company: **Weuck** Address: **1760 Holcomb Bridge Rd. Bldg. 100 Ste. 190** Email To: **KROSS@WEUCK.COM** Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Requested Due Date/TAT: **Standard**

Section B Required Project Information: Report To: **Katie Ross** Copy To: **Dan Hunt DHUNT@WEUCK.COM** Purchase Order No.: \_\_\_\_\_ Project Name: **Pipes Pump** Project Number: **6572-0001**

Section C Invoice Information: Attention: \_\_\_\_\_ Company Name: \_\_\_\_\_ Address: \_\_\_\_\_ Pace Quote Reference: \_\_\_\_\_ Pace Project Manager: \_\_\_\_\_ Pace Profile #: \_\_\_\_\_

Page: \_\_\_\_\_ of \_\_\_\_\_  
2264527

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location \_\_\_\_\_ STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information		Section E Matrix Codes				Section F Collected		Section G Sample Type (G=GRAB C=COMP)	Section H Matrix Code (see valid codes to left)	Section I Sample Temp at Collection	Section J # of Containers	Section K Preservatives	Section L Analysis Test	Section M Y/N	Section N Requested Analysis Filtered (Y/N)	Section O Pace Project No./ Lab I.D.
	MATRIX / CODE	DW	WT	WW	P	SL	OL	WP									
1	MN-19F	Water							WTG	10/4/18	10:35						
2	MW-8F	Drinking Water							WTG	10/4/18	13:35						
3	Trip Blank	Waste Water Product															
4		Soil/Solid															
5		Wipe															
6		Air															
7		Tissue															
8		Other															
9																	
10																	
11																	
12																	

WO#: 2610138

2610138

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Shannon Fuller	10/5/18	1054	Mike Nguyen/Pace	10/5/18	1054	
				M. Dalman	10/09/18	1100	

ORIGINAL

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



### Sample Condition Upon Receipt

Client Name: Wenck

Project # \_\_\_\_\_

**WO#: 2610138**  
 PM: EDB Due Date: 10/12/18  
 CLIENT: WENCK

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 2.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/05/18 m

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):	_____			

#### Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



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