

## SCS ENGINEERS

June 17, 2016  
File No. 25211374.49

Mr. Woody Myers  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

**Subject:** Phase 2 Investigation Update and Phase 3 Investigation Recommendations for  
Off-Site Investigation of Chlorinated Volatile Organic Compounds in  
Groundwater in Bedrock  
Land & Gas Reclamation Landfill, Dodge County, Wisconsin

Dear Mr. Myers:

On behalf of Advanced Disposal Services Glacier Ridge Landfill, LLC (Advanced), SCS Engineers (SCS) is submitting this update on the status of additional off-site investigation activities at Land & Gas Reclamation Landfill (LGRL) completed since August 2013. The work completed was Phase 2 of the April 2012 workplan for off-site investigation of chlorinated volatile organic compounds (CVOCs) in bedrock.

The Phase 2 investigation update includes:

- Background on the investigation objectives and Phase 1 findings
- Description of Phase 2 field investigation activities including:
  - Borehole drilling and logging
  - Packer testing
  - Monitoring well installation
  - Borehole and well abandonment
- Summary of bedrock groundwater monitoring including:
  - Water levels
  - Monitoring well sampling and analysis
  - Water supply well sampling and analysis
- Conclusions and recommendations

Recommendations for implementing Phase 3 of the April 2012 workplan are also included in this update.



## BACKGROUND

### Investigation Objectives

The Wisconsin Department of Natural Resources (WDNR) requested additional investigation of dissolved CVOCs in the bedrock aquifer downgradient from LGRL. The objectives of the investigation are to evaluate the vertical and horizontal extent of CVOCs in the bedrock aquifer and to characterize the flow directions and pathways in the bedrock. The WDNR agreed that a phased approach to the investigation was reasonable and might avoid unnecessary costs and investigation activities. The goal of Phase 1 of the bedrock investigation was to investigate the vertical distribution of contamination. The goal of Phase 2 was to evaluate the horizontal extent (width) of the plume perpendicular to the apparent direction of plume migration. The goal of future Phase 3 is to further define the downgradient extent of the CVOC plume.

### Phase 1 Summary

As stated above, the purpose of Phase 1 of the investigation was to determine the depth of CVOC impacts within the bedrock aquifer. The following discussion provides a brief summary of the Phase 1 results as background for the discussion of Phases 2 and 3. For more detailed information on Phase 1 activities, refer to the investigation status report submitted to the WDNR on August 13, 2013.

The upper bedrock units in the site vicinity, from the top down, include the Maquoketa shale, the Galena-Platteville dolomite, and the St. Peter sandstone. On-site investigation had determined that CVOCs in the bedrock groundwater near LGRL were moving in a zone near the top of the dolomite aquifer, below the less permeable shale.

Two bedrock monitoring wells, P424D and P424SS, were installed approximately 80 feet northwest of the water supply well (PW-27) on the All-Line property. The locations of the monitoring wells are shown on **Figure 1**.

Before the wells were installed, various borehole testing methods were used to determine the depths at which significant groundwater flow was occurring within the dolomite. The borehole testing indicated that most of the flow in the dolomite was occurring in a zone near the top of the bedrock, and monitoring well P424D was installed to intercept this zone. P424D is constructed in the upper dolomite bedrock with a screen open across the identified "high flow" zone from 183 to 203 feet below the ground surface. P424SS is screened in the upper sandstone at a depth of 389 to 409 feet below the ground surface. Well screen intervals are shown on geologic cross section A-A (**Figures 2 and 3**).

Phase 1 water level monitoring indicated relatively little head difference between the dolomite and upper sandstone aquifers on the All-Line property. The head in the dolomite was slightly higher than the sandstone during all three Phase 1 measurement events.

Initial samples from the new wells were collected on December 17, 2012, and February 20, 2013. In both sample rounds, PW-27 and monitoring well P424D contained very similar concentrations of CVOCs including chloroethane, cis-1,2-dichloroethene (DCE), trans-1,2-dichloroethene, trichloroethene, and vinyl chloride. No CVOCs were detected in either sample from monitoring well P424SS.

Based on the lack of CVOC detections in the sandstone (P424SS) and the minimal flow in the lower portion of the dolomite, the Phase 1 objective of defining the vertical extent of the CVOC plume on the All-Line property was met. At this location, the CVOC plume appears to be limited to the upper dolomite, in the interval sampled by P424D.

## PHASE 2 FIELD INVESTIGATION ACTIVITIES

The purpose of Phase 2 of the investigation was to determine the lateral limits of the CVOC plume in the bedrock aquifer north and south of the Phase 1 monitoring wells. Phase 2 drilling locations are shown on **Figure 1**, including P425D, P426D, and P427D. The wells were proposed to be installed in the upper dolomite, pending borehole testing to ensure that each well was intersecting a flow zone and would provide enough water for sampling. Of the two boreholes initially installed in Phase 2 (P425D and P426D), only P426D encountered sufficient water for sampling in the dolomite bedrock. A third borehole, P427D, was drilled at a location north of P425D in an attempt to find sufficient water for monitoring purposes in the upper dolomite; however, this borehole was also essentially dry. A monitoring well was installed in the P426D borehole. Boreholes P425D and P427D were abandoned.

Further details regarding the field investigation activities performed at each borehole location are provided below. Activities completed at one or more of the three locations included drilling, logging, packer testing, well installation, and borehole abandonment.

### **Borehole P425D**

#### **Drilling**

Badger Well Drilling (Badger) drilled borehole P425D in December 2013 under the direction of an SCS geologist. Badger placed a 6-inch temporary casing in an 8-inch diameter hole to a depth of about 50 feet, and then continued drilling with a 6-inch down-the-hole air hammer bit to a depth of 260 feet. The boring log is included in **Attachment A**. Dolomite was encountered at a depth of approximately 191 feet. The upper portion of the hole produced water; however, little or no water was encountered in the hole at depths below 200 feet. Cuttings and water produced from the hole were contained to the extent possible and transferred to the Glacier Ridge Landfill in a lugger box provided by the landfill.

The temporary surface casing was not grouted and did not seal tightly in the shale, allowing some water from the water table aquifer to cascade down the hole while the hole was open in the dolomite. However, previous testing has shown that shallow groundwater in this area is not

contaminated with CVOCs. An initial attempt to conduct packer-pumping tests on the lower portion of the borehole on January 2014, with equipment provided by Badger, was unsuccessful because the packer would not seal adequately in the lower borehole.

### **Geophysical Logging**

Eric Oelkers and Paul Grover of SCS logged the P425D borehole using down-hole geophysical tools on February 11 and 12, 2014. The downhole logs included borehole diameter (caliper), fluid temperature and conductivity, natural gamma radiation, and vertical flow (measured with a heat-pulse flow meter) under ambient and pumped conditions. The geophysical logs of the borehole are provided as **Attachment B**. The geophysical and flow logging provided indications of some groundwater flow in the shale; however, there was not any evidence of flow in the dolomite.

### **Packer Testing**

Luisier Drilling, Inc. performed zone pumping tests using straddle packers under the direction of SCS on August 12, 2014. The packer testing showed that the dolomite portion of the borehole was essentially unproductive. During the packer tests it was possible to pump the borehole down to the level of the pump intake, for a drawdown of 110 to 125 feet. Recovery of the entire length of exposed borehole in the dolomite below 189 feet was at an initial flow rate of less than 0.4 gallons per minute (gpm). The zone from 180 to 196 feet below grade recovered at less than 1 gpm after being pumped dry. These recoveries are indicative of a non-productive formation.

Based on the absence of appreciable flow in the dolomite at P425D, the construction of a permanent monitoring well was placed on hold. Ultimately, following the discovery of similarly dry conditions in borehole P427D, SCS recommended that the borehole be abandoned without constructing a monitoring well, and WDNR agreed.

### **Borehole Abandonment**

Badger abandoned borehole P425D on April 14, 2016, by removing the temporary casings and simultaneously backfilling the hole with bentonite chips. SCS provided oversight of the abandonment operation. The WDNR abandonment form is included in **Attachment A**.

### **Monitoring Well P426D**

#### **Drilling**

Badger drilled monitoring well P426D in December 2013 under the direction of SCS. Badger placed a 6-inch temporary casing in an 8-inch diameter hole to a depth of about 60 feet, and then continued drilling with a 6-inch down-the-hole air hammer bit to a depth of 263 feet. The boring log is included in **Attachment A**. Dolomite was encountered at a depth of approximately 180 feet. Because of the relatively inaccessible location in a farm field and the anticipated absence of significant contamination, cuttings and water produced during drilling were not contained.

### **Geophysical Logging**

Eric Oelkers and Paul Grover of SCS logged the P426D borehole using down-hole geophysical tools on February 12 and 13, 2014. The downhole logs included borehole diameter (caliper), fluid temperature and conductivity, natural gamma radiation, and vertical flow (measured with a heat-pulse flow meter) under ambient and pumped conditions. The geophysical logs of the borehole are provided as **Attachment B**. The geophysical and flow logging provided indications of some groundwater flow in the shale and in the upper portion of the dolomite.

### **Packer Testing**

Luisier Drilling, Inc. performed zone pumping tests using straddle packers under the direction of SCS on October 21, 2014, after the farmer had harvested his crop and the field was accessible to the packer rig. During the packer interval pumping tests, it was possible to pump the borehole down to the level of the pump intake, for a drawdown of about 95 feet. Recovery of the entire length of exposed borehole in the dolomite below 183 feet was at an initial flow rate of about 3 gpm. The zone from 200 to 216 feet below grade recovered an initial rate of 8 gpm after being pumped dry and the zone from 213 to 229 feet recovered at an initial rate of 11 gpm. The entire portion of the hole below 223 feet recovered at a rate of less than 0.3 gpm. The productive interval identified in borehole P426D, at an elevation of approximately 756 to 733 feet, appeared to line up well with similar zones identified in P423D and P424D.

### **Well Construction and Development**

Badger constructed a 2-inch monitoring well in the borehole on May 15, 2015, under the supervision of SCS. The monitoring well in this borehole was constructed with an open interval set in the productive portion of the upper dolomite from about 199 to 219 feet below the ground surface, with a filter pack from 196 to 224 feet below the ground surface. The day after it was installed, the monitoring well produced a sustained flow of about 2 gpm at 30 feet of drawdown when pumped and recovered to static level within 12 minutes after pumping stopped. Monitoring well construction and development forms are included in **Attachment A**.

### **Borehole P427D**

Badger drilled borehole P427D in December 2015 under the direction of SCS. To prevent water from the upper portion of the borehole from entering the underlying dolomite, Badger placed an 8-inch temporary casing in a 10-inch diameter hole to a depth of about 38 feet, and then continued drilling an 8-inch hole to a depth of 120 feet. Badger then seated a 6-inch casing into 15 feet of bentonite chips at the bottom of the hole before advancing the hole to a total depth of 230 feet. The boring log is included in **Attachment A**.

Dolomite was encountered at a depth of approximately 182 feet. The shale and dolomite below a depth of 120 feet were essentially dry. After completely evacuating the borehole with

compressed air, the water level in the open hole recovered at a rate of approximately 0.14 feet per hour, or about 39 feet in 12 days. Based on the extremely slow recovery in borehole P427D, SCS recommended that the borehole be abandoned without constructing a monitoring well, and WDNR agreed.

### **Borehole Abandonment**

Badger abandoned borehole P427D on April 14, 2016, by removing the temporary casings and simultaneously backfilling the hole with bentonite chips. SCS provided oversight of the abandonment operation. The WDNR abandonment form is included in **Attachment A**.

### **PW27 Abandonment**

Based on the Phase 1 finding that P424D effectively monitored the same interval as water supply well PW27, PW27 was removed from the monitoring program. This well had previously been taken out of service and the pump had been removed. Badger abandoned well PW27 on April 15, 2016, by backfilling the well with bentonite chips and cutting the casing off below the ground surface. The WDNR abandonment form is included in **Attachment A**. The abandonment form was also submitted to the WDNR Drinking Water Program.

## **BEDROCK GROUNDWATER MONITORING**

During the Phase 2 investigation, groundwater monitoring continued at existing bedrock monitoring wells and water supply wells, and new monitoring well P426D was added to the monitoring program after installation.

### **Water Level Monitoring**

Water level monitoring was performed to evaluate the groundwater flow direction in the upper dolomite and measure the vertical gradient between the dolomite and the deeper sandstone. Water level measurements and elevations in the monitoring wells are summarized in **Table 1**. Measured water elevations have ranged over about 6 feet in the period from 2010 through 2015.

The groundwater elevations measured in the upper dolomite monitoring wells on October 9, 2015, and contours of the corresponding potentiometric surface are shown on **Figure 4**. The water levels in the upper dolomite are generally consistent with the apparent northeast flow direction indicated by the volatile organic compound (VOC) distribution. The apparent horizontal hydraulic gradient between LGRL (P401D) and the All-Line well nest (P424D) ranged from 0.0001 to 0.0007.

There appears to be relatively little head difference between the dolomite and upper sandstone aquifers on the All-Line property. The vertical gradient between the dolomite well P424D and the sandstone well P424SS, with a vertical separation of screen midpoints of 206 feet, ranged from 0.0003 to 0.0020 from late December 2012 through October 2015. The head in the

dolomite was slightly higher than the sandstone during all ten measurement events. Given the apparent low hydraulic conductivity of the lower dolomite and the small vertical gradient, there appears to be limited potential for vertical groundwater flow between the upper dolomite and sandstone in the vicinity of the P424 well nest.

### **Monitoring Well Sampling and Analysis**

During the Phase 2 investigation, ESC collected groundwater samples from the existing bedrock monitoring wells semiannually from October 2013 through April 2016. New monitoring well P426D was sampled in June and August 2015, and then added to the semiannual program beginning in October 2015. Bedrock monitoring well analytical data are summarized in **Table 2**. The two primary CVOCs detected are cis-1,2-dichloroethylene (DCE) and vinyl chloride. The concentrations of DCE and vinyl chloride detected in October 2015, and the approximate extent of the CVOC contamination plume in bedrock, are shown on **Figure 5**. Concentration trends of DCE and vinyl chloride are shown on **Figures 6 and 7**. Laboratory reports not previously submitted to WDNR are included in **Attachment C**.

- The highest CVOC concentrations in the bedrock aquifer have been detected in samples from monitoring well P402E, located near the northeast corner of the former LGRL site. Concentrations of DCE and vinyl chloride in this well have consistently exceeded the NR 140 enforcement standard (ES), and concentrations of trichloroethylene (TCE) have exceeded the ES. The CVOC concentrations detected in this well increased initially when the well was first sampled in 2010, but have followed a decreasing trend for the last five years (see **Figures 6 and 7**). It is possible that the initial increase following well installation represents equilibration of the well with the aquifer, with the initial sample results lower than true groundwater quality due to short-term effects of drilling with air to install the well.
- Monitoring well P401D, located on the east side of the former LGRL site and south of P402E, had shown essentially no CVOC contamination until the October 2015 sampling round, when low concentrations of cis- and trans-DCE and TCE were detected. Lower CVOC concentrations were reported for the April 2016 sample from P401D.
- Monitoring well P424D, on the All-Line property, contains concentrations of DCE and vinyl chloride greater than the corresponding ESs. Similar to the pattern at P402E, the concentrations of CVOCs increased initially following installation, and have followed a slight decreasing trend since then.
- The farthest downgradient dolomite bedrock monitoring well, P423D, on the Andrew Oechsner farm, has detectable concentrations of several CVOCs; however, only vinyl chloride exceeds the ES in this well. The CVOC concentrations detected in this well appear to have remained stable or declined slightly since 2010.

- The three groundwater samples collected from P426D to date have shown no detectable CVOC contamination.
- Monitoring well P424SS, open to the sandstone bedrock below the dolomite on the All-Line property, has shown no detectable CVOCs since the well was first sampled in 2012.

### **Water Supply Well Sampling and Analysis**

Selected water supply wells have been sampled on a regular basis in accordance with the work plan. Water supply well sampling results are summarized in **Table 3**, and concentration trends for DCE and vinyl chloride are shown on **Figures 8** and **9**. Laboratory reports for the water supply well samples have been submitted to WDNR previously.

The findings include the following:

- The replacement water supply well for the Oechsner farm (PW-21RR) has been sampled monthly since October 2010. The DCE concentration trends for PW-21RR have been variable (**Figure 8**). DCE concentrations in this well initially increased from October 2010 through mid-2012, dropped slightly into the end of 2012, and then followed a gradual increasing trend and now appear to have leveled off, with recent concentrations similar to those observed in mid-2012. Vinyl chloride concentrations in this well have shown an overall declining trend since mid-2012 (**Figure 9**). This well has a groundwater treatment system, and post-treatment samples demonstrate that the system is effectively removing vinyl chloride and DCE, with treated water concentrations well below the drinking water maximum contaminant levels (MCLs).
- The DCE concentrations in samples from the Wendall Muche well (PW-28) have shown a gradually increasing trend since 2011, but decreased slightly between October 2015 and April 2016. The detected DCE concentrations are still below the NR 140 PAL of 7 ug/L and well below the MCL of 70 ug/L. No other CVOCs have been detected in this well. This well is open to both the dolomite and sandstone units.
- Samples from the Antonioni well (PW-19) also contain DCE well below the MCL. The DCE concentrations in this well appear to be relatively stable since April 2013.
- Trace concentrations of DCE have also been detected in some of the samples collected from PW-32 (J. Oechsner). The detected DCE concentrations are also well below the drinking water MCL, and typically below the laboratory's limit of quantitation.
- None of the other six water supply wells that were sampled routinely as part of Phase 2 contained detectable concentrations of CVOCs.



## CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

- The hydrogeologic and laboratory analytical data from the P424 monitoring well nest on the All-Line property continue to support the theory that horizontal movement of the CVOCs from LGRL in groundwater is primarily occurring in the upper, fractured zone of the dolomite.
- The absence of appreciable quantities of water in the upper dolomite bedrock at the locations of boreholes P425D and P427D suggest that the relatively permeable, fractured zone in the dolomite does not extend more than a few hundred feet south of the P424 nest. The lack of fracturing and the apparent flow direction to the northeast likely prevents CVOCs from migrating to the south through the dolomite.
- Given the apparently low hydraulic conductivity of the lower portion of the dolomite and the low vertical hydraulic gradient across the lower dolomite observed at the P424 well nest, there appears to be little potential for significant vertical flow within the dolomite under ambient conditions.
- The appearance of CVOCs in the sandstone aquifer east of Highway 67 may be related to migration of contaminants through multi-aquifer water supply wells rather than horizontal movement of the plume from the source area in the sandstone bedrock.
- CVOC concentrations in the monitoring wells along the center of the plume, including P402E, P424D, and P423D, appear to be stable or decreasing.
- The increasing trend of DCE concentrations in PW28, and the consistent presence of low concentrations of DCE in PW-19, suggest that the leading edge of the dissolved CVOC plume may be continuing to migrate slowly to the northeast; however, vinyl chloride has not been detected in these wells, and the DCE concentrations remain below the NR 140 PAL.

### Phase 3 Recommendations

We recommend proceeding with Phase 3 of the planned investigation, which includes installation of monitoring well P429D northeast of PW-21RR to better define the downgradient extent of the plume in the upper dolomite and to serve as a sentinel well for downgradient water supply wells. The approximate location of the proposed well is shown on **Figures 4 and 5**. The final well location is subject to access and approval from the property owner and concurrence regarding the proposed location from the WDNR.


We recommend continuing the same routine bedrock monitoring program during Phase 3 as was implemented during Phase 2, including the following wells:

- Monthly water supply well: PW-21RR
- Semiannual water supply wells: PW-19, PW-20, PW-23, PW-28, PW-32, PW-38
- Annual water supply wells: PW-42, PW-43, PW-44
- Semiannual monitoring wells: P401D, P402E, P423D, P424D, P424SS, P426D, P429D


Phase 3 monitoring well P429D will be sampled approximately one month after installation and then will be included in the semiannual monitoring program.

Please do not hesitate to contact us at (608) 224-2830 if you have any questions or would like to schedule a meeting to discuss the investigation findings and recommendations.

Sincerely,



Sherren Clark, PE, PG  
Project Director  
**SCS ENGINEERS**



Eric Oelkers, PG  
Senior Project Manager/Hydrogeologist  
**SCS ENGINEERS**

EO/jsn/SC

cc: Jake Margelofsky, Advanced Disposal Services (2 copies)  
Adam Hogan, WDNR

cc via e-mail: Tim Curry, Advanced Disposal Services  
Mark Torresani, Cornerstone Environmental Group  
Joe Madonia, Barnes & Thornburg, LLP (for Wells Manufacturing)  
Martin Gallun, Metalcraft of Mayville  
Melanie Gotto, Deere & Company World Headquarters  
Jennifer Nijman, Nijman & Franzetti, LLP (for Deere & Company)  
Craig Dousharm, Mercury Marine  
Tom McElligott, Quarles & Brady, LLP (for Mercury Marine)  
Todd Schaeffer, Brenner Tank LLC  
Lew Schildkraut, E.R. Wagner Manufacturing  
Katherine Behm, Everett Smith Group, Ltd. (for Maysteel Corp.)  
Drew Zeratsky, National Rivet & Manufacturing Co.  
David Crass, Michael Best & Friederich, LLP (for City of Mayville)  
Don Neitzel, Kunkel Engineering (for City of Mayville)  
Paul Rosenfeldt, Edgerton, St. Peter, Petak & Rosenfeldt (for Mayville Engineering Corp.)

Enclosures: Table 1 – Water Level Summary-Bedrock Wells  
Table 2 – LGRL VOC Investigation Bedrock Well Sample Results  
Table 3 – LGRL VOC Investigation Water Supply Well Sample Results  
Figure 1 – Bedrock Monitoring Well Locations  
Figure 2 – Cross Section Location Map  
Figure 3 – Cross Section A-A'  
Figure 4 – Dolomite Bedrock Groundwater Elevation and Potentiometric Surface  
Contours  
Figure 5 – VOCs in Bedrock Groundwater – October 2015  
Figure 6 – cis-1,2-DCE Concentration Trend in Bedrock Monitoring Wells  
Figure 7 – Vinyl Chloride Concentration Trend in Bedrock Monitoring Wells  
Figure 8 – cis-1,2-DCE Trend in Water Supply Wells Downgradient from LGRL  
Figure 9 – Vinyl Chloride Trend in PW-21RR Samples (Before Treatment)

Attachment A – Boring Logs and Monitoring Well Construction and  
Development Forms  
Attachment B – Geophysical Logs  
Attachment C – Laboratory Data Reports

## **TABLES**

- 1 Water Level Summary-Bedrock Wells
- 2 LGRL VOC Investigation Bedrock Well Sample Results
- 3 LGRL VOC Investigation Water Supply Well Sample Results

**Table 1. Water Level Summary - Bedrock Wells  
Land and Gas Reclamation Landfill/ File No. 25211374.49**

Raw Data	Depth to Water in feet below top of well casing								
	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P4245S	P426D
<b>Measurement Date</b>									
March 12, 2010	76.87	73.58		53.82	108.25	91.44			
April 8, 2011	76.96	73.67	95.30						
October 6-7, 2011	81.26	78.00	100.50						
April 13, 2012	77.60	74.40	96.00						
October 3-5, 2012	81.70	78.43	99.72						
December 17, 2012	82.16	78.95	100.50			96.90	93.40	92.90	
February 20, 2013	82.11	78.88	99.55			96.20	92.75	92.10	
April 1, 2013	81.20	77.70	98.60				91.75	91.20	
September 30, 2013	83.33	80.09	101.30				94.80	94.22	
April 7, 2014	80.00	76.80	97.87				91.04	90.65	
October 6, 2014	80.35	77.15	98.75				91.91	91.55	
April 17, 2015	78.75	75.45	96.88				90.10	89.72	
May 20, 2015	78.93	75.72	97.27				90.42	90.06	104.15
June 3, 2015	78.85	75.65	97.00				90.14	89.80	103.65
October 9, 2015	83.10	79.90	100.80				93.80	93.50	107.50
April 4, 2016	77.92	74.76	95.65				88.90	89.40	102.34

Ground Water Elevation in feet above mean sea level (amsl)									
Well Number	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P4245S	P426D
<b>Top of Casing Elevation (feet amsl)</b>	932.30	929.08	948.99	958.14	947.56	946.15	942.60	941.88	955.64
<b>Screen/Open Hole Length (ft)</b>	15.00	20.00	18.00	46.00	60.00	43.00	20.00	20.00	20.00
<b>Total Depth (ft from top of casing)</b>	147.40	177.98	225.01	202.00	247.00	205.00	206.10	411.45	221.80
<b>Top of Screen / Open Hole Elevation (ft)</b>	799.90	771.10	205.01	802.14	760.56	784.15	756.50	550.43	753.84
<b>Measurement Date</b>									
March 12, 2010	855.43	855.50		904.32	839.31	854.71			
April 8, 2011	855.34	855.41	853.69						
October 6-7, 2011	851.04	851.08	848.49						
April 13, 2012	854.70	854.68	852.99						
October 3-5, 2012	850.60	850.65	849.27						
December 17, 2012	850.14	850.13	848.49			849.25	849.20	848.98	
February 20, 2013	850.19	850.20	849.44			849.95	849.85	849.78	
April 1, 2013	851.10	851.38	850.39				850.85	850.68	
September 30, 2013	848.97	848.99	847.69				847.80	847.66	
April 7, 2014	852.30	852.28	851.12				851.56	851.23	
October 6, 2014	851.95	851.93	850.24				850.69	850.33	
April 17, 2015	853.55	853.63	852.11				852.50	852.16	
May 20, 2015	853.37	853.36	851.72				852.18	851.82	851.49
June 3, 2015	853.45	853.43	851.99				852.46	852.08	851.99
October 9, 2015	849.20	849.18	848.19				848.80	848.38	848.14
April 4, 2016	854.38	854.32	853.34				853.70	852.48	853.30
<b>Bottom of Well Elevation (ft)</b>	784.90	751.10	723.98	756.14	700.56	741.15	736.50	530.43	733.84

Created by: EO Date: 3/16/2010  
 Last revision by: SC Date: 5/19/2016  
 Checked by: JSN Date: 5/19/2016

**Table 2. LGRL VOC Investigation Bedrock Well Sample Results**  
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-401D	10/7/2009	Siemens	6.37	452	194	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	4/6/2010	Siemens	12.3	400	278	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.10	<0.4	<0.2	o-Xylene 0.22 J
	10/27/2010	Siemens	10.4	345	277	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	11/29/2010	Siemens	11.6	340	--	<0.70	<0.40	<0.30	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	4/8/2011	Siemens	9.4	356	281	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	cis-1,3-Dichloropropylene 0.25 J
	10/6/2011	Siemens	9.36	332	273	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	Carbon Disulfide 28.8
	4/13/2012	Siemens	9.44	365	226	<0.70	<0.40	<0.40	<0.40	<0.4	<0.50	<0.30	<0.4	<0.2	ND
	10/4/2012	Pace	9.4	359	219	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/4/2013	Pace	12.6	360	251	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	10.9	362	255	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/17/2014	Pace	12.4	340	280	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	12.0	348	251	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/9/2015	Pace	12.6	350	289	<0.37	<0.50	<0.24	<0.41	11.0	0.43 J	<0.50	0.41 J	<0.18	Acetone 21.2
4/7/2016	Pace	12.5	344	273	<0.37	<0.50	<0.24	<0.41	1.7	<0.26	<0.50	<0.33	<0.18	Acetone 3.0 J	
P-402D (Abandoned)	10/7/2009	Siemens	60.9	381	1,050	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	Toluene 0.43 J

**Table 2. LGRL VOC Investigation Bedrock Well Sample Results**  
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-402E	1/22/2010	Siemens	47.3	439	516	2.6 CSH	0.53 J	2.9	0.5 J	120	4.18	<0.30	2.71	23.6	
	2/24/2010	Siemens	72.4	484	--	<3.50	<2.00	<2.00	<2.00	176	7.38	<1.50	2.66	26.6	ND
	2/24/2010	TA	--	--	--	3.9	<0.30	1.9	0.61	200	8	<0.50	1.9	35	
	4/7/2010	Siemens	68.5	414	486	7.25 J	<4.0	<4.0	<4.0	395	12.4 J	<3.0	4.84 J	48.8	ND
	10/27/2010	Siemens	78.4	403	505	<7.0	<4.0	<4.0	<4.0	459	14.8 J	<3.0	11.1 J	39.4	Methylene Chloride 8.47 J
	11/29/2010	Siemens	83.6	410	--	<7.0	<4.0	<4.0	<4.0	346	10.9 J	<3.0	9.16 J	40.6	ND
	4/8/2011	Siemens	87.7	404	483	7.64	<0.40	1.41	1.65	499	18.8	<0.30	15.7	53.5	Tetrahydrofuran 4.95 J
	10/7/2011	Siemens	73	392	502	5.87	<0.40	1.47	1.23 J	344	11.8	<0.30	13.6	41.9	Carbon Disulfide 3.30 J Tetrahydrofuran 2.77 J
	4/13/2012	Siemens	75.9	412	496	<7	<4	<4	<4	412	11.6 J	<3	11.5 J	41.4	ND
	10/4/2012	Pace	68.8	344	466	5.0	<0.24	1.3	1.2	360	13.0	<0.45	12.5	39.3	Tetrahydrofuran 2.7 J
	4/5/2013	Pace	60.2	397	566	5.8	<0.96	<3.0	<2.3	330	11.2	<1.8	10.2	35.5	ND
	10/4/2013	Pace	61.6	397	456	4.5	<0.78	1.3 J	<0.85	301	20.5	<0.94	8.3	25.3	ND
	4/7/2014	Pace	61.5	399	470	8.0	<2.0	1.2 J	<1.6	326	12.0	<2.0	8.3	42.6	ND
	10/15/2014	Pace	61.7	373	453	5.0	<2.5	<1.2	<2.1	283	17.9	<2.5	6.5	28.3	ND
	4/17/2015	Pace	62.8	383	450	4.8	<1.2	0.82 J	<1.0	298	8.5	<5.1	5.5	27.6	ND
	10/9/2015	Pace	64.5	389	465	5.2	<1.2	<0.60	<1.0	287	8.4	<1.2	4.8	25.2	Acetone 19.6 J
4/7/2016	Pace	63.5	364	450	7.9	<1.2	1.1 J	<1.0	315	20.3	<1.2	4.4	28.8	ND	

**Table 2. LGRL VOC Investigation Bedrock Well Sample Results**

(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-423D	12/16/2010	Siemens	34.6	394	--	2.13 J	<0.40	0.60 J	<0.40	62.1	2.6	<0.30	0.9 J	2.53	ND
	4/8/2011	Siemens	29.7	360	427	1.38 J	<0.40	0.59 J	<0.40	52	2.04	<0.30	0.73 J	1.2	
	10/7/2011	Siemens	32.1	373	441	1.57 J	<0.40	0.44 J	<0.40	44.9	1.64 J	<0.30	0.74 J	2.19	Carbon Disulfide 1.99 J
	4/13/2012	Siemens	28.2	348	432	1.36 J	<0.40	0.59 J	<0.40	61.9	2.75	<0.30	0.92 J	0.91 J	ND
	10/5/2012	Pace	8.8	364	227	1.1	<0.24	<0.75	<0.57	51.8	2.5	<0.45	0.68 J	1.5	ND
	4/5/2013	Pace	25.6	364	487	1.5	<0.24	<0.75	<0.57	59.4	2.6	<0.45	0.72 J	2.1	ND
	10/3/2013	Pace	30.6	356	413	1.1	<0.39	<0.28	<0.43	59.3	2.4	<0.47	0.74 J	1.1	ND
	4/7/2014	Pace	29.9	366	420	1.5	<0.50	0.41 J	<0.41	53.6	2.6	<0.50	0.75 J	1.0 J	ND
	10/16/2014	Pace	32.4	347	410	0.95 J	<0.50	0.37 J	<0.41	51.2	2.5	<0.50	0.66 J	0.91 J	ND
	4/17/2015	Pace	33.8	357	408	0.97 J	<0.50	0.35 J	<0.41	47.7	2.2	<0.50	0.66 J	1.1	ND
	10/9/2015	Pace	40.3	370	430	1.3	<0.50	0.32 J	<0.41	45.5	2.0	<0.50	0.60 J	1.1	ND
4/8/2016	Pace	37.5	355	432	0.62 J	<0.50	<0.24	<0.41	29.7	1.2	<0.50	0.47 J	<0.18	ND	
P-424D	12/17/2012	Pace	33.8	357	409	2.5	<0.48	<1.5	<1.1	91.2	3.5	<0.90	1.7 J	7.0	ND
	2/20/2013	Pace	32.6	382	432	2.6	<0.24	0.92 J	<0.57	105	3.2	<0.45	2.5	5.8	ND
	10/3/2013	Pace	38.5	379	444	2.6	<0.39	1.1	<0.43	124	3.5	<0.47	3.2	10.1	ND
	4/7/2014	Pace	34.8	369	427	3.1	<0.50	0.98 J	0.42 J	114	4	<0.50	3	7.6	Acetone 3.1 J
	10/16/2014	Pace	40.7	358	424	3.3	<1.0	0.92 J	<0.82	122	4.9	<1.0	2.4	7.7	ND
	4/17/2015	Pace	37.7	363	409	1.8	<0.50	0.54 J	<0.41	79.6	2.5	<0.50	2.3	2.6	ND
	10/9/2015	Pace	48.6	384	449	3.5	<0.50	0.88 J	<0.41	120	3.8	<0.50	2.2	11.4	ND
4/8/2016	Pace	40.7	369	432	2.9	<0.50	0.82 J	<0.41	111	3.4	<0.50	2.3	5.3	ND	



**Table 2. LGRL VOC Investigation Bedrock Well Sample Results**  
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-424SS	12/17/2012	Pace	<2.0	303	287	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	2/20/2013	Pace	2.1 J	309	298	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/3/2013	Pace	2.8 J	320	298	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	2.5 J	311	290	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/16/2014	Pace	2.8 J	303	283	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	2.8 J	314	276	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 3.7 J
	10/9/2015	Pace	2.4 J	323	295	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/8/2016	Pace	2.7 J	309	293	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
P-426D	6/3/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	8/12/2015	Pace	21.5	337	405	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/9/2015	Pace	59.6	369	499	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 18.6 J
	4/8/2016	Pace	27.7	331	408	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
Trip Blank	1/22/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	2/24/2010	TA	--	--	--	<1.0	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	ND
	2/24/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	11/29/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	12/16/2010	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/6/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/7/2011	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	4/13/2012	Siemens	--	--	--	<0.70	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	10/4/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/5/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	Methylene Chloride 1.0 Acetone 6.8 J
	12/17/2012	Pace	--	--	--	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
10/3/2013	Pace	--	--	--	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND	
4/7/2014	Pace	--	--	--	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	Methylene Chloride 0.25 J	

**Table 2. LGRL VOC Investigation Bedrock Well Sample Results**  
(Results are in µg/L, except where otherwise noted)

Note: See last page for abbreviations, notes, and groundwater standards.

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
Trip Blank	10/15/2014	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
(continued)	4/17/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 8.5 J
	6/3/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	8/12/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Methylene Chloride 0.28 J
	10/9/2015	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2016	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/8/2016	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
NR 140 Groundwater Enforcement Standard			250	NS	NS	400	30	850	7	70	100	5	5	0.2	1,4 Dichlorobenzene 75 Acetone 9,000 Carbon Disulfide 1,000 Chloroform 6 Methylene Chloride 5 Tetrahydrofuran 50 Toluene 800 Xylenes 2,000
NR 140 Preventive Action Limit			125	NS	NS	80	3	85	0.7	7	20	0.5	0.5	0.02	1,4 Dichlorobenzene 15 Acetone 1,800 Carbon Disulfide 200 Chloroform 0.6 Methylene Chloride 0.5 Tetrahydrofuran 10 Toluene 160 Xylenes 400

## Table 2. LGRL VOC Investigation Bedrock Well Sample Results

### Abbreviations:

ND = Not detected

NS = No standard established

mg/L = Milligrams per Liter

µg/L = Micrograms per Liter

Siemens = Siemens Water Technologies

TA = TestAmerica, Watertown, WI

Pace = Pace Analytical Services, Inc., Green Bay, WI

-- = Not Analyzed

**Bold** indicates detected compound.

**Bold and underline** indicates result above drinking water standard.

### Lab Notes/Qualifiers:

J = Estimated value below laboratory limit of quantitation.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

Created by: MOB

Date: 9/5/2012

Last revision by: JSN

Date: 5/18/2016

Checked by: SC

Date: 5/19/2016

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**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
<b>Monthly Monitoring Locations</b>															
PW-21R	A. Oechsner N7548 Hwy. 67 Mayville	1/29/2009	NLS	12	310	<0.79	<0.31	<0.21	<0.13	11	0.26 J	<0.15	<0.18	0.61	ND
			NLS	--	--	<0.79	<0.31	<0.21	<0.13	10	0.26 J	<0.15	<0.18	0.56	ND
		2/24/2009	NLS	--	--	<0.79	<0.31	<0.21	<0.13	10	<0.19	<0.15	<0.18	0.35 J	ND
			CT	--	--	<0.40	0.56 JB	<0.21	<0.24	8.6	<0.27	<0.30	<0.24	0.39	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	19	0.52 J	<0.20	0.26	0.53	ND
7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	12	0.23 J	<0.10	<0.12	0.40 J	ND		
PW-21RR Untreated	A. Oechsner N7548 Hwy. 67 Mayville	10/7/2010	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	2.74	<0.50	<0.30	<0.40	0.58 J	ND
			TA	--	--	<1.0	<0.30	<0.50	<0.50	2.0	<0.50	<0.50	<0.20	0.37 J	ND
		11/11/2010	TA	13	320	<1.0	0.47 J	<0.50	<0.50	2.6	<0.50	<0.50	<0.20	0.76 J	Chloroform 0.29 J Toluene 21
		11/29/2010	Siemens	12.4	347	<0.70	<0.40	<0.40	<1.30	3.12	<0.50	<0.30	<0.40	0.61 J	Toluene 1.25
		12/16/2010	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	3.75	<0.50	<0.30	<0.40	0.65 J	Toluene 0.99 J
		1/12/2011	NLS	--	--	<1.0	<0.16	<0.14	<0.11	4.4	0.13 J	<0.10	<0.12	0.75	ND
		2/10/2011	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	6	<0.50	<0.30	<0.40	0.79	ND
		3/1/2011	TA	--	--	<0.070	<0.063	<0.074	<0.059	6.1	<0.13	<0.067	<0.060	0.92	ND
		4/5/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	8.9	0.32 J	<0.11	<0.28	0.94	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	7.3	0.27 J	<0.050	<0.050	0.79	ND
		5/26/2011	TA	--	--	0.34 J	<0.20	0.080 J	<0.05	12	0.44 J	<0.050	<0.050	1.0	ND
		6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	9.8	0.37 J	<0.15	<0.25	0.78	ND
		7/14/2011	TA	--	--	<0.50	0.33 J	<0.25	<0.15	10	0.40 J	<0.15	<0.25	0.75	ND
8/16/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	9.7	0.31 J	<0.15	<0.25	0.46 J	ND		
9/1/2011	TA	--	--	<0.50	0.46 J	<0.25	<0.15	11	0.45 J	<0.15	<0.25	0.67	ND		
10/6/2011	TA	--	--	0.52	<0.30	<0.25	<0.15	10	0.40 J	<0.15	<0.25	0.63	ND		

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
PW-21RR Untreated (continued)	A. Oechsner N7548 Hwy. 67 Mayville	11/14/11 *	TA	--	--	<0.50	<0.30	<0.25	<0.15	11	0.43 J	<0.15	<0.25	0.82	ND	
		11/14/11 **	TA	--	--	0.64	<0.30	<0.25	<0.15	12	0.43 J	<0.15	<0.25	0.81	ND	
		12/12/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	12	0.42 J	<0.15	<0.25	0.83	ND	
		12/27/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	12	0.45 J	<0.15	<0.25	0.74	ND	
			Siemens	--	--	<0.70	<0.40	<0.40	<0.40	13.9	0.57 J	<0.30	<0.40	0.85 J	ND	
		1/4/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	15.4	0.62 J	<0.30	<0.40	1.09	ND	
		1/11/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	15.5	0.66 J	<0.30	<0.40	1.02	ND	
		1/18/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	15.2	0.66 J	<0.30	<0.40	1.01	ND	
		1/25/2012	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	16.6	0.61 J	<0.30	<0.40	1.10	ND	
		2/15/2012	TA	--	--	<0.50	<0.30	<0.25	<0.15	13	0.47 J	<0.15	<0.25	0.86	ND	
		3/1/2012	TA	--	--	<0.50	<0.30	<0.25	<0.15	13	0.48 J	<0.15	<0.25	0.96	ND	
		4/11/2012	TA	16	290	<0.50	<0.30	<0.25	<0.15	14	0.69	<0.15	<0.25	0.89	ND	
		5/2/2012	Siemens	--	--	0.92 J	<0.40	<0.40	<0.40	19.8	0.80 J	<0.30	<0.40	1.52	ND	
		6/20/2012	Pace	--	--	0.25 J	0.73 J	0.11 J	<0.16	15.1	0.51	<0.16	<0.11	0.62	ND	
		7/18/2012	Pace	--	--	<0.20	<0.13	<0.072	<0.16	16	0.47 J	<0.16	<0.11	0.62	ND	
		8/2/2012	Pace	--	--	0.46 J	<0.13	0.12 J	<0.16	18.6	0.64	<0.16	<0.11	0.75	ND	
		9/13/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	16.1	0.49 J	<0.16	<0.11	0.55	Benzene Toluene	0.050 J 0.088 J
		10/5/2012	Pace	13.6	316	<0.31	<0.13	<0.072	<0.16	14.6	0.51	<0.16	<0.11	0.63	ND	
		11/29/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	10.9	0.30 J	<0.16	<0.11	0.44	ND	
		12/17/2012	Pace	--	--	<0.31	<0.13	<0.072	<0.16	14.8	0.45 J	<0.16	<0.11	0.62	ND	
		1/8/2013	Pace	--	--	0.62 J	<0.13	<0.072	<0.16	14.4	0.40 J	<0.16	<0.11	0.52	ND	
		2/20/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	14	0.39 J	<0.16	<0.11	0.52	ND	
		3/21/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	13.2	0.42 J	<0.16	<0.11	0.48	ND	
4/2/2013	Pace	13.1	294	<0.31	<0.13	<0.072	<0.16	9.2	0.25 J	<0.16	<0.11	0.34 J	ND			
5/7/2013	Pace	--	--	<0.31	<0.13	<0.072	<0.16	14.4	0.43 J	<0.16	<0.11	0.64	ND			
6/27/2013	Pace	--	--	<0.50	<0.50	<0.25	<0.24	12.5	0.32 J	<0.25	<0.12	0.5	m&p-Xylene	0.22 JB		
7/29/2013	Pace	--	--	<0.50	<0.50	<0.25	<0.24	14.9	0.35 J	<0.25	<0.12	0.6	ND			
8/26/2013	Pace	--	--	<0.22	<0.40	<0.20	<0.23	18	<0.20	<0.19	<0.18	<0.19	ND			
9/12/13	Pace	--	--	<0.22 L3	<0.40 L3	<0.20	<0.23	16.1	<0.20	<0.19	<0.18	<0.19 L3	ND			

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
PW-21RR Untreated (continued)	A. Oechsner N7548 Hwy. 67 Mayville	10/1/13	Pace	14.6	349	<0.22	<0.40	<0.20	<0.23	16.5	0.47 J	<0.19	<0.18	<0.19	ND	
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	14.5	0.44 J	<0.19	<0.18	0.67	Methylene Chloride 1,2-Dichloroethane	0.48 J 0.55
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	13.3	0.39 J	<0.25	<0.13	0.58	ND	
		1/9/2014	Pace	--	--	<0.50	<0.50 M1	<0.25	<0.24	14.9	0.33 J	<0.25	<0.13	0.75	ND	
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	12.2	0.32 J	<0.25	<0.13	0.52	ND	
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	14.4	0.46 J	<0.25	<0.13	0.50	ND	
		4/25/2014	Pace	14.7	356	<0.50	<0.50	<0.25	<0.24	15.3	0.42 J	<0.25	<0.13	0.66	ND	
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	13.8	0.26 J	<0.099	<0.084	0.56	ND	
		6/10/2014	Pace	--	--	0.21 J	<0.34	<0.077	<0.13	15.0	0.38 J	<0.099	<0.084	0.78	ND	
		7/8/2014	Pace	--	--	0.29 J	<0.34 M1	<0.077	<0.13	16.4	0.38 J	<0.099	<0.084	0.64 M1	ND	
		8/1/2014	Pace	--	--	0.25 J	<0.34	<0.077	<0.13	14.6	0.43 J	<0.099	<0.084	0.56	ND	
		9/3/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	13.9	0.27 J	<0.099	<0.084	0.58	ND	
		10/6/2014	Pace	14.7	338	0.47 J	<0.34	<0.087	<0.17	15.9	0.48 J	<0.12	<0.084	0.53	ND	
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	16.2	0.47 J	<0.12	<0.084	0.57	ND	
		12/12/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	19.0	<0.15	<0.12	<0.084	1.2	ND	
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	17.1	<0.15	<0.12	<0.084	0.43	ND	
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	14.2	0.37 J	<0.12	<0.084	0.55	ND	
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	16.6	<0.15	<0.12	<0.084	0.50	ND	
		4/17/2015	Pace	15.5 B	328	<0.27	<0.34	<0.087	<0.17	18.3	0.48 J	<0.12	<0.084	0.50	ND	
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	16.7	0.44 J	<0.15	<0.14	0.55	ND	
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.52	<0.15	<0.14	0.56	ND	
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.5	1.2	<0.15	<0.14	0.58	ND	
		8/31/2015	Pace	--	--	<0.34	<0.64 L2	<0.19	<0.17	18.0	1.1	<0.15	<0.14	0.47	ND	
		9/21/2015	Pace	--	--	<0.34 H1	<0.64 H1,L3	0.19 J,H1	<0.17 H1	18.1 H1	0.53 H1	<0.15 H1	0.18 J,H1	0.60 H1	ND	
		10/6/2015	Pace	16.0	328	<0.88	<0.20	0.18	<0.17	20	0.35	<0.13	<0.19	0.76	ND	
		11/4/2015	Pace	--	--	<0.24 N2	<0.23 N2	<0.17 N2	<0.17 N2	17.7 N2	0.42 J,N2	<0.32 N2	<0.21 N2	<0.23 N2	ND	
		12/3/2015	Pace	--	--	<0.24	<0.23	<0.17	<0.17	18.2	0.37 J	<0.32	<0.21	<0.23	ND	
		1/5/2016	Pace	--	--	0.36 J	<0.64	<0.19 M1	<0.17	18.7	<0.18	<0.15	<0.14	0.55	ND	
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.3	0.41 J	<0.15	<0.14	0.50	Toluene	0.27 JB
		3/10/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	17.5	0.52 J	<0.15	<0.14	0.55	ND	
4/5/2016	Pace	16.0	345	<0.34	<0.64	<0.19	<0.17	17.5	0.42 J	<0.15	<0.14	0.47	ND			

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR Dup Untreated	A. Oechsner N7548 Hwy. 67, Mayville	9/3/2014	Pace	--	--	<b>0.27 J</b>	<0.34	<0.077	<0.13	<b>14.8</b>	<b>0.30 J</b>	<0.099	<0.084	<b>0.67</b>	ND
PW-21RR After Treatment System	A. Oechsner N7548 Hwy. 67 Mayville	6/27/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>1.5</b>	<0.21	<0.25	<0.12	<0.20	m&p-Xylene <b>0.25 JB</b>
		7/29/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>1.4</b>	<0.21	<0.25	<0.12	<0.20	ND
		8/26/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	<b>2.3</b>	<0.20	<0.19	<0.18	<0.19	ND
		9/12/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	<b>2.1</b>	<0.20	<0.19	<0.18	<0.19	ND
		10/1/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	<b>2.4</b>	<0.20	<0.19	<0.18	<0.19	ND
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	<b>1.2</b>	<0.20	<0.19	<0.18	<0.19	Methylene Chloride <b>0.46 J</b>
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>0.74</b>	<0.21	<0.25	<0.13	<0.20	ND
		1/9/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>0.84</b>	<0.21	<0.25	<0.13	<0.20	ND
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>0.73</b>	<0.21	<0.25	<0.13	<0.20	ND
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>1.6</b>	<0.21	<0.25	<0.13	<0.20	ND
		4/25/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	<b>1.2</b>	<0.21	<0.25	<0.13	<0.20	ND
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	<b>1.5</b>	<0.15	<0.099	<0.084	<0.20	ND
		6/10/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	<b>1.4</b>	<0.15	<0.099	<0.084	<0.20	ND
		7/8/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	<b>1.3</b>	<0.15	<0.099	<0.084	<0.20	ND
		8/1/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	<b>1.7</b>	<0.15	<0.099	<0.084	<0.082	ND
		10/6/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	<b>1.5</b>	<0.15	<0.12	<0.084	<0.082	ND
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	<b>0.63</b>	<0.15	<0.12	<0.084	<0.082	ND
		12/12/2014	Pace	--	--	<0.27 H1	<0.34 H1,L3	<0.087 H1	<0.17 H1	<b>9.9 H1</b>	<b>0.17 J, H1</b>	<0.12 H1	<0.084 H1	<b>0.35 H1</b>	ND
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	<b>9.9</b>	<b>0.21 J</b>	<0.12	<0.084	<b>0.28</b>	ND
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	<b>1.0</b>	<0.15	<0.12	<0.084	<0.082	ND
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	<b>1.3</b>	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	<b>15.6 B</b>	<b>333</b>	<0.27	<0.34	<0.087	<0.17	<b>1.6</b>	<0.15	<0.12	<0.084	<0.082	ND
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>0.83</b>	<0.18	<0.15	<0.14	<0.081	ND
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>1.3</b>	<0.18	<0.15	<0.14	<0.15	Isopropylbenzene (Cumene) <b>0.11 J</b>
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>2.3</b>	<0.18	<0.15	<0.14	<0.081	ND
		8/31/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>2.1</b>	<0.18	<0.15	<0.14	<0.081	ND
9/21/2015	Pace	--	--	<0.34 H1	<0.64 H1,L3	<0.19 H1	<0.17 H1	<b>1.9 H1</b>	<0.18 H1	<0.15 H1	<0.14 H1	<0.081 H1	ND		
10/6/2015	Pace	--	--	<0.88	<0.20	<0.15	<0.17	<b>2.5</b>	<0.18	<0.13	<0.19	<0.10	ND		
11/4/2015	Pace	--	--	<0.24 N2	<0.23 N2	<0.17 N2	<0.17 N2	<b>1.6 N2</b>	<0.19 N2	<0.32 N2	<0.21 N2	<0.23 N2	Isopropylbenzene (Cumene) <b>0.81 N2</b>		
12/3/2015	Pace	--	--	<0.24	<0.23	<0.17	<0.17	<b>1.1</b>	<0.19	<0.32	<0.21	<0.23	ND		
2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>2.7</b>	<0.18	<0.15	<0.14	<0.15	Toluene <b>0.26 J</b>		
3/10/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>1.2</b>	<0.18	<0.15	<0.14	<0.15	ND		
4/5/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	<b>0.98</b>	<0.18	<0.15	<0.14	<0.081	ND		

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

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Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
<b>Semi-annual Monitoring Locations</b>															
PW-19	Antonioni W2831 Zion Church Rd. Mayville	6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<b>0.30 J</b>	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<b>45.1</b>	<b>372</b>	<0.31	<0.13	<0.072	<0.16	<0.08	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	<b>40.2</b>	<b>339</b>	<0.31	<0.13	<0.072	<0.16	<b>0.55</b>	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	<b>38.3</b>	<b>355</b>	<0.22	<0.40	<0.20	<0.23	<b>0.82</b>	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	<b>37.9</b>	<b>375</b>	<0.50	<0.50	<0.25	<0.24	<b>0.65</b>	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	<b>43.1</b>	<b>341</b>	<0.27	<0.34	<0.087	<0.17	<b>0.63 J</b>	<0.15	<0.12	<0.084	<0.082	ND
		6/3/2015	Pace	<b>41.1</b>	<b>352</b>	<0.34	<0.64	<0.19	<0.17	<b>0.63</b>	<0.18	<0.15	<0.14	<0.15	ND
		10/6/2015	Pace	<b>47.7</b>	<b>340</b>	<0.88	<0.20	<0.15	<0.17	<b>0.73</b>	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	<b>42.6</b>	<b>335</b>	<0.34	<0.64	<0.19	<0.17	<b>0.59</b>	<0.18	<0.15	<0.14	<0.081	ND
PW-20	Sellnow N7627 Hwy. 67 Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<b>0.22 JB</b>	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		1/21/2010	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/13/2012	TA	<b>33</b>	<b>310</b>	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<b>45.6</b>	<b>323</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	<b>29.3</b>	<b>340</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	<b>22.3</b>	<b>312</b>	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	<b>27.7</b>	<b>385</b>	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	<b>28.4</b>	<b>315</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	<b>62.8</b>	<b>365</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	<b>26.4</b>	<b>327</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
4/5/2016	Pace	<b>23.0</b>	<b>330</b>	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND		



**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-23	Weiss W2978 Zion Church Rd. Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<b>0.25 JB</b>	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	<b>160</b>	<b>320</b>	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<b>135</b>	<b>358</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	<b>108</b>	<b>385</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	<b>107</b>	<b>426</b>	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	<b>94.4</b>	<b>383</b>	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	<b>99.3</b>	<b>405</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	<b>108</b>	<b>379</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	<b>100</b>	<b>424</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
4/5/2016	Pace	<b>66.7</b>	<b>353</b>	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND		
PW-27	All Line Construction N7477 Hwy. 67 Mayville	2/24/2009	NLS	--	--	<0.79	<0.31	<b>0.91</b>	<b>0.36 J</b>	<b>120</b>	<b>3.9</b>	<0.15	<b>2.9</b>	<b>12</b>	ND
			CT	--	--	<b>3.0</b>	<b>1.1 B</b>	<b>1.0</b>	<b>0.47 J</b>	<b>110</b>	<b>4.4</b>	<0.30	<b>2.8</b>	<b>9.4</b>	ND
		3/11/2009	NLS	--	--	<0.95	<0.16	<b>0.70 J</b>	<b>0.26 J</b>	<b>100</b>	<b>3.2</b>	<0.20	<b>2.4</b>	<b>8.3</b>	ND
			CT	--	--	<b>2.4</b>	<0.22	<b>0.81</b>	<b>0.41 J</b>	<b>89</b>	<b>4.1</b>	<0.30	<b>2.7</b>	<b>7.1</b>	ND
		6/30/2009	Siemens	--	--	<b>2.55</b>	<0.40	<b>0.91 J</b>	<b>0.45 J</b>	<b>115</b>	<b>3.71</b>	<0.30	<b>2.83</b>	<b>8.26</b>	ND
		2/10/2011	Siemens	<b>32.3</b>	<b>386</b>	<b>1.98 J</b>	<0.40	<b>0.74 J</b>	<0.40	<b>101</b>	<b>3.45</b>	<0.30	<b>2.31</b>	<b>6.48</b>	ND
		5/2/2012	Siemens	<b>26.4</b>	<b>334</b>	<b>1.42 J</b>	<0.40	<b>0.42 J</b>	<0.40	<b>53.6</b>	<b>1.81</b>	<0.30	<b>1.19 J</b>	<b>4.02</b>	ND
		12/17/2012	Pace	<b>39.9</b>	<b>349</b>	<b>2.3</b>	<0.13	<b>0.69</b>	<b>0.17 J</b>	<b>86.2</b>	<b>2.8</b>	<0.16	<b>1.2</b>	<b>9.1</b>	Methyl-tert-butyl ether 1,2,4 Trimethylbenzene
2/20/2013	Pace	<b>36.7</b>	<b>360</b>	<b>2.3</b>	<0.13	<b>0.77</b>	<0.16	<b>87</b>	<b>3.3</b>	<0.16	<b>1.9</b>	<b>7.1</b>	ND		

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note:** See last page for abbreviations, notes, and groundwater standards.

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-28	W. Muche N7650 Hwy. 67 Mayville	3/11/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<b>0.18 J</b>	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<b>0.24 J</b>	<0.27	<0.30	<0.24	<0.11	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<b>0.19 J</b>	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<b>0.28 J</b>	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<b>0.39 J</b>	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<b>0.30 J</b>	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<b>0.33 J</b>	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	<b>17</b>	<b>280</b>	<0.50	<0.30	<0.25	<0.15	<b>0.45 J</b>	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<b>15.3</b>	<b>316</b>	<0.31	<0.13	<0.072	<0.16	<b>0.74</b>	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	<b>16.1</b>	<b>339</b>	<0.31	<0.13	<0.072	<0.16	<b>1</b>	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	<b>18.0</b>	<b>353</b>	<0.22	<0.40	<0.20	<0.23	<b>1.4</b>	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	<b>18.3</b>	<b>374</b>	<0.17	<0.34	<0.077	<0.13	<b>1.2</b>	<0.15	<0.099	<0.084	<0.20	ND
		10/6/2014	Pace	<b>26.2</b>	<b>331</b>	<0.27	<0.34	<0.087	<0.17	<b>1.8</b>	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	<b>21.7</b>	<b>344</b>	<0.27	<0.34	<0.087	<0.17	<b>2.0</b>	<0.15	<0.12	<0.084	<0.082	ND
10/6/2015	Pace	<b>24.4</b>	<b>365</b>	<0.88	<0.20	<0.15	<0.17	<b>2.5</b>	<0.18	<0.13	<0.19	<0.10	ND		
4/5/2016	Pace	<b>24.1</b>	<b>362</b>	<0.34	<0.64	<0.19	<0.17	<b>2.2</b>	<0.18	<0.15	<0.14	<0.081	ND		
PW-32	J. Oechsner W2983 Zion Church Rd. Mayville	4/7/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<b>0.12 J</b>	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
		9/23/2009	NLS	--	--	<1.2	<0.48	<0.19	<0.22	<0.17	<0.19	<0.17	<0.23	<0.21	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<b>0.14 J</b>	<0.11	<0.10	<0.12	<0.13	ND
		4/5/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	Chlorobenzene <b>0.050 J</b>
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	<b>41</b>	<b>300</b>	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	<b>40.2</b>	<b>349</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	<b>39.8</b>	<b>478</b>	<0.31	<0.13	<0.072	<0.16	<b>0.27 J</b>	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	<b>40.5</b>	<b>362</b>	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	<b>40.7</b>	<b>374</b>	<0.50	<0.50	<0.25	<0.24	<b>0.30 J</b>	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	<b>41.2</b>	<b>355</b>	<0.27	<0.34	<0.087	<0.17	<b>0.33 J</b>	<0.15	<0.12	<0.084	<0.082	ND
		4/24/2015	Pace	<b>35.4</b>	<b>334</b>	<0.27	<0.34	<0.087	<0.17	<b>0.16 J</b>	<0.15	<0.12	<0.084	<0.082	ND
10/6/2015	Pace	<b>37.1</b>	<b>355</b>	<0.88	<0.20	<0.15	<0.17	<b>0.53</b>	<0.18	<0.13	<0.19	<0.10	ND		
4/5/2016	Pace	<b>39.0</b>	<b>348</b>	<0.34	<0.64	<0.19	<0.17	<b>0.32 J</b>	<0.18	<0.15	<0.14	<0.081	ND		

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
PW-38	King N7746 Hwy. 67 Mayville	5/14/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND	
			CT	--	--	<0.40	<b>0.57 J</b>	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND	
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	<0.13	<0.11	<0.10	<0.12	<0.13	ND	
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	<0.30	<0.30	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.032	Toluene <b>0.22 J</b>
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	Toluene <b>0.35 J</b>	
		4/11/2012	TA	<3.1	<b>310</b>	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND	
		10/5/2012	Pace	<2.0	<b>338</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	<b>2.4 J</b>	<b>268</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/1/2013	Pace	<b>3.2 J</b>	<b>349</b>	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND	
		4/25/2014	Pace	<b>2.9 J</b>	<b>361</b>	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND	
		10/6/2014	Pace	<b>3.2 J</b>	<b>335</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		4/24/2015	Pace	<b>2.9 JB</b>	<b>338</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
10/6/2015	Pace	<b>2.7 J</b>	<b>341</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND			
4/5/2016	Pace	<b>3.0 J</b>	<b>344</b>	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND			
<b>Annual Monitoring Locations</b>																
PW-42	Steinbach W2772 Zion Church Rd. Mayville	10/5/2012	Pace	<2.0	<b>324</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	<b>2.2 J</b>	<b>320</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/6/2014	Pace	<b>3.4 J</b>	<b>327</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	<b>3.0 J</b>	<b>342</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
PW-43	Hinz W2698 Zion Church Rd. Mayville	10/5/2012	Pace	<b>11.4</b>	<b>215</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/3/2013	Pace	<b>10.8</b>	<b>211</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/6/2014	Pace	<b>12.9</b>	<b>226</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	<b>15</b>	<b>223</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
PW-44	Christian N7686 Ekren Rd. Mayville	10/5/2012	Pace	<2.0	<b>291</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	<b>2.3 J</b>	<b>316</b>	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/6/2014	Pace	<b>2.9 J</b>	<b>319</b>	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	<b>2.7 J</b>	<b>342</b>	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
<b>Non-Routine Monitoring Locations</b>																
PW-1	Church View Farms J. Qualmann N7110 Hwy. V Horicon	4/7/2009	NLS	<b>34</b>	<b>240</b>	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND	

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-3	Horicon Marsh Bowmen N7240 Hwy. V Horicon	4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-4	Advanced Disposal N7271 Hwy. V Horicon	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
None	Wondra N7877 Hwy 67 Mayville	10/22/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	Chloroform <b>0.36</b>
PW-18	Advanced Disposal N7785 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-18 Hand Pump	Advanced Disposal N7785 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-24	St. John's Lutheran Church N7074 Hwy. V Mayville	4/30/2009	NLS	<b>33</b>	<b>320</b>	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<b>0.3 J</b>	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-26	Goodearle W3653 Decora Rd. Horicon	4/30/2009	NLS	<b>13</b>	<b>310</b>	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
PW-29	Persha N7241 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-30	Wendorff N7306 Hwy. 67 Mayville	6/23/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-31	Wendorff N7306 Hwy. 67 Mayville	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-33	Lagerman W3230 STH 33 Iron Ridge	4/3/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-34	R H Equipment N7123 Hwy. 67 Mayville	4/13/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-35	Lewis N7143 Hwy. 67 Mayville	4/13/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

(Results are in µg/L, except where otherwise noted)

**Note: See last page for abbreviations, notes, and groundwater standards.**

Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-36	Mayville Animal Clinic N7860 Hwy. 67 Mayville	4/21/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-37	Halsne N7817 Hwy. 67 Mayville	4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<b>0.40 J</b>	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
PW-Office Well	Advanced Disposal N7296 Hwy. V Horicon	4/7/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<b>3.5</b>	<0.25	<0.19	1,4 Dichlorobenzene <b>0.27 J</b>
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<b>3.3</b>	<0.24	<0.11	1,4 Dichlorobenzene <b>0.22 J</b>
		4/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	<0.30	<0.24	<0.11	ND
NR 140 Groundwater Enforcement Standard				250	NS	400	30	850	7	70	100	5	5	0.2	1,2-Dichloroethane 5 1,4 Dichlorobenzene 75 Benzene 5 Chloroform 6 Methyl-tert-butyl ether 60 Methylene Chloride 5 Toluene 800 Trimethylbenzenes 480
Drinking Water Standard (Maximum Contaminant Level)				125	NS	NS	NS	NS	7	70	100	5	5	0.2	1,2-Dichloroethane 5 1,4 Dichlorobenzene 75 Benzene 5 Chloroform (TTHM) 80 Methylene Chloride 5 Toluene 1,000

**Table 3. LGRL VOC Investigation Water Supply Well Sample Results**

Abbreviations:

NS = No standard established

TTHM = Trihalomethanes (disinfection byproducts including chloroform)

ND = Not detected

mg/L = Milligrams per Liter

µg/L = Micrograms per Liter

-- = Not Analyzed

CT = CT Laboratories, Baraboo, WI

NLS = Northern Lake Service, Inc., Crandon, WI

Siemens = Siemens Water Technologies

TA = TestAmerica, Watertown, WI

Pace = Pace Analytical Services, Inc., Green Bay, WI

**Bold** indicates detected compound.

**Bold and underline** indicates result above drinking water standard.

Notes:

\* Sample collected at the pressure tank prior to the iron filtration system.

\*\* Sample collected at the kitchen tap after the water passed through the iron filtration system.

Laboratory Notes/Qualifiers:

B = Compound also detected in blank sample

J = Estimated value below laboratory limit of quantitation

H1 = Analysis conducted outside the recognized method holding time. Analyzed 2 days outside of hold time.

L2 = Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

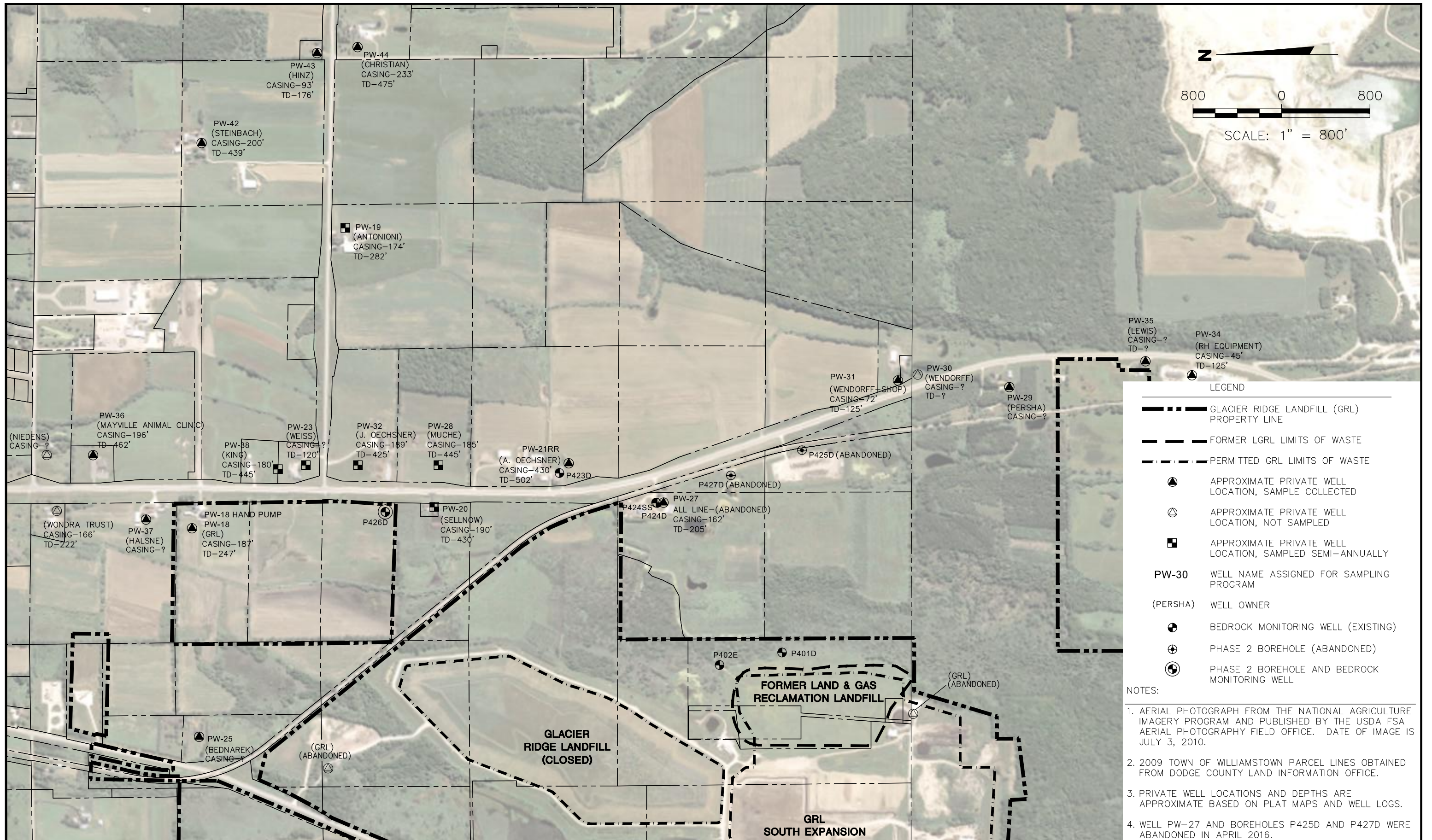
N2 = The lab does not hold The NELCA Institute (TNI) accreditation for this parameter.

Created by:	<u>JSN</u>	Date:	<u>4/27/2009</u>
Last revision by:	<u>JSN</u>	Date:	<u>5/18/2016</u>
Checked by:	<u>SC</u>	Date:	<u>5/19/2016</u>

I:\3744\Reports\2016 Phase 2\Tables\[Table3\_Water Supply Well VOCs.xlsx]Notes

## FIGURES

- 1 Bedrock Monitoring Well Locations
- 2 Cross Section Location Map
- 3 Cross Section A-A'
- 4 Dolomite Bedrock Groundwater Elevation and Potentiometric Surface Contours
- 5 VOCs in Bedrock Groundwater – October 2015
- 6 cis-1,2-DCE Concentration Trend in Bedrock Monitoring Wells
- 7 Vinyl Chloride Concentration Trend in Bedrock Monitoring Wells
- 8 cis-1,2-DCE Trend in Water Supply Wells Downgradient from LGRL
- 9 Vinyl Chloride Trend in PW-21RR Samples (Before Treatment)



**LEGEND**

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGR LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLE COLLECTED
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED SEMI-ANNUALLY
- PW-30** WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA)** WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)
- PHASE 2 BOREHOLE AND BEDROCK MONITORING WELL

- NOTES:**
1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS JULY 3, 2010.
  2. 2009 TOWN OF WILLIAMSTOWN PARCEL LINES OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE.
  3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
  4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.

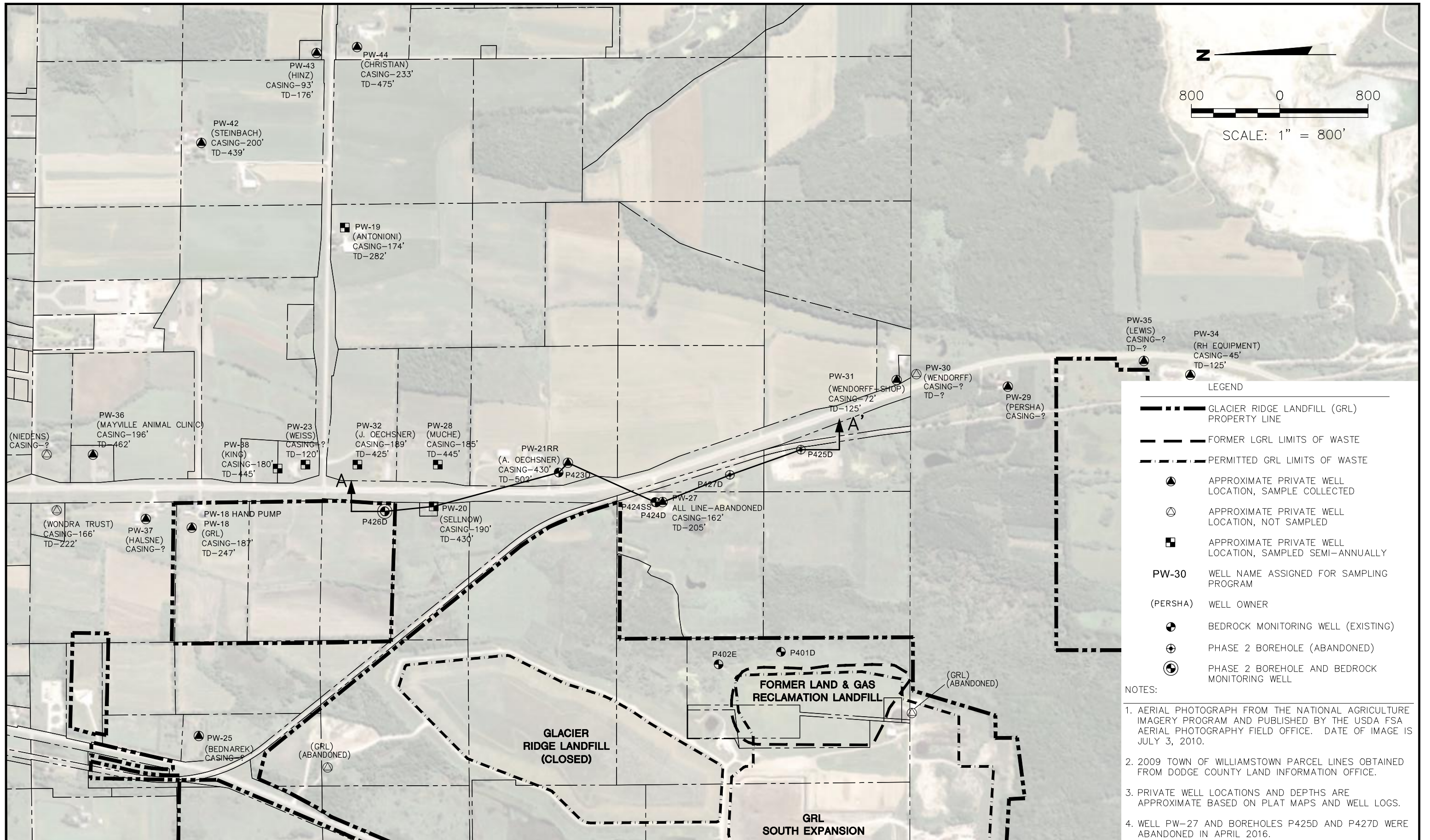
PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	09/13/11	CHECKED BY:	EO
REVISED:	06/06/16	APPROVED BY:	

ENGINEER	<b>SCS ENGINEERS</b>	CLIENT	<b>Advanced Disposal</b>
	2830 DAIRY DRIVE MADISON, WI 53718-6751		ADVANCED DISPOSAL SERVICES
	PHONE: (608) 224-2830		GLACIER RIDGE LANDFILL, LLC.

SITE	VOC INVESTIGATION LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN
------	---

FIGURE	BEDROCK MONITORING WELL LOCATIONS
	1





- LEGEND**
- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
  - FORMER LGRL LIMITS OF WASTE
  - PERMITTED GRL LIMITS OF WASTE
  - APPROXIMATE PRIVATE WELL LOCATION, SAMPLE COLLECTED
  - APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
  - APPROXIMATE PRIVATE WELL LOCATION, SAMPLED SEMI-ANNUALLY
  - PW-30** WELL NAME ASSIGNED FOR SAMPLING PROGRAM
  - (PERSHA)** WELL OWNER
  - BEDROCK MONITORING WELL (EXISTING)
  - PHASE 2 BOREHOLE (ABANDONED)
  - PHASE 2 BOREHOLE AND BEDROCK MONITORING WELL

- NOTES:**
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  3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.
  4. WELL PW-27 AND BOREHOLES P425D AND P427D WERE ABANDONED IN APRIL 2016.

PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	EO
REVISED:	04/06/16	APPROVED BY:	EO 04/07/16

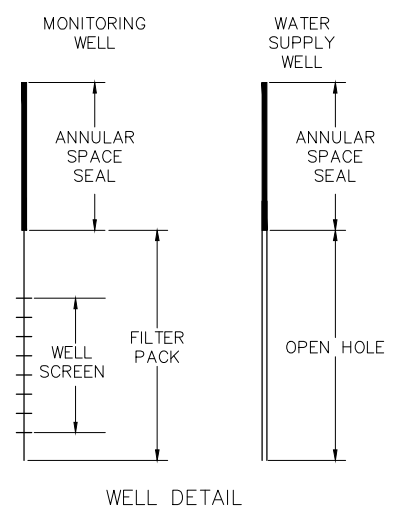
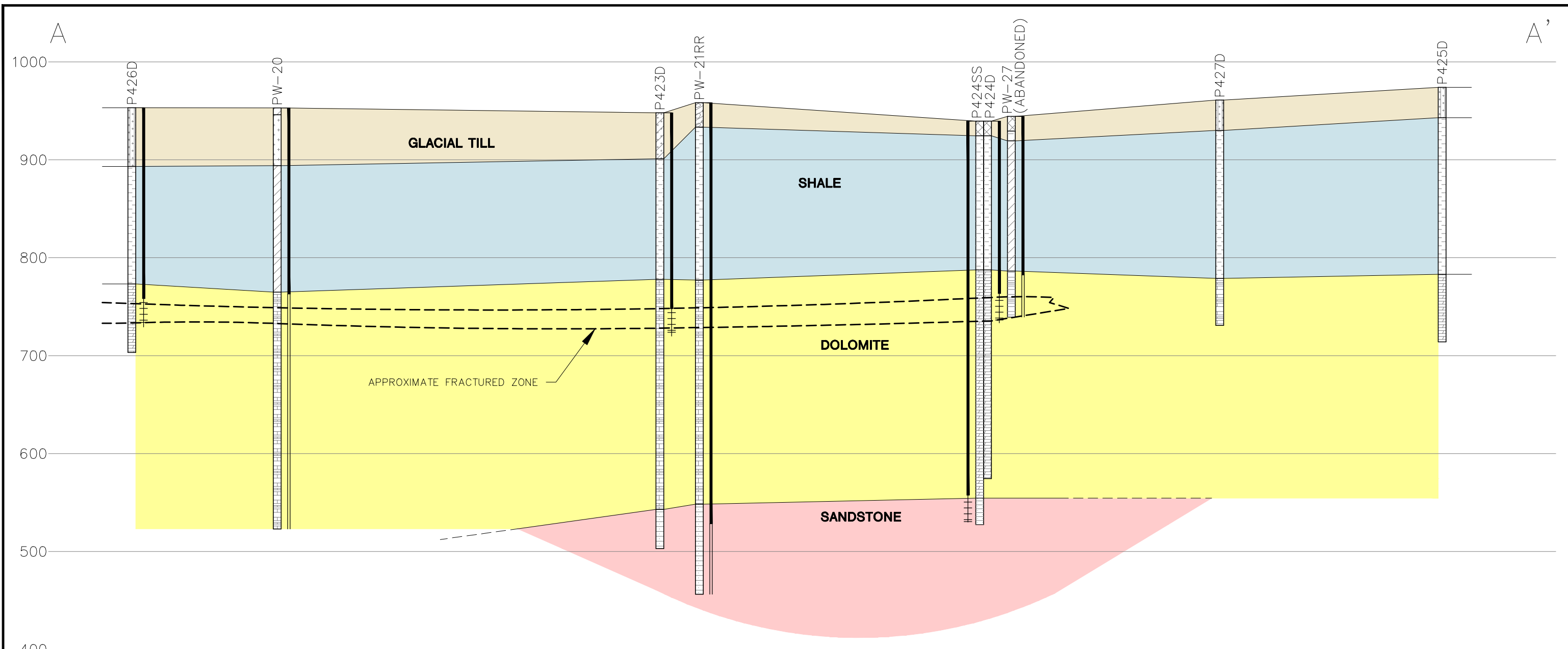
**SCS ENGINEERS**  
 2830 DAIRY DRIVE MADISON, WI 53718-6751  
 PHONE: (608) 224-2830

CLIENT ADVANCED DISPOSAL SERVICES  
 GLACIER RIDGE LANDFILL, LLC.

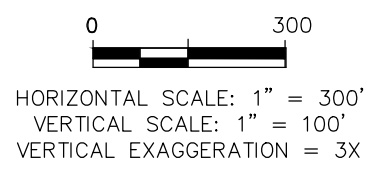
SITE VOC INVESTIGATION  
 LAND AND GAS RECLAMATION LANDFILL  
 DODGE COUNTY, WISCONSIN

CROSS SECTION LOCATION MAP

FIGURE  
 2



- NOTES:
1. THE PORTION OF ANY BOREHOLE EXTENDING BELOW THE MONITORING WELL SCREEN AND FILTER PACK WAS BACKFILLED WITH BENTONITE CHIPS PRIOR TO WELL CONSTRUCTION.
  2. MONITORING WELL P423D WAS INSTALLED IN FORMER WATER SUPPLY WELL PW-21R AFTER BACKFILLING THE LOWER PORTION WITH BENTONITE CHIPS.
  3. APPROXIMATE FRACTURED ZONE BASED ON BOREHOLE LOGGING AND PACKER PUMPING TEST IN MONITORING WELL BOREHOLES AND PW-27. THE ZONE IS INFERRED AT PW-20 AND PW-21RR, WHICH WERE NOT TESTED.



LEGEND	
	SILTY SAND
	SHALE
	DOLOMITE
	LIMESTONE
	LEAN CLAY
	SAND, WELL GRADED
	SAND WITH GRAVEL
	SANDSTONE
	CLAYEY GRAVEL
	FILL

PROJECT NO.	3744
DRAWN:	04/01/16
REVISED:	06/06/16

DRAWN BY:	KP
CHECKED BY:	EO
APPROVED BY:	

**SCS ENGINEERS**  
 2830 DAIRY DRIVE MADISON, WI 53718-6751  
 PHONE: (608) 224-2830



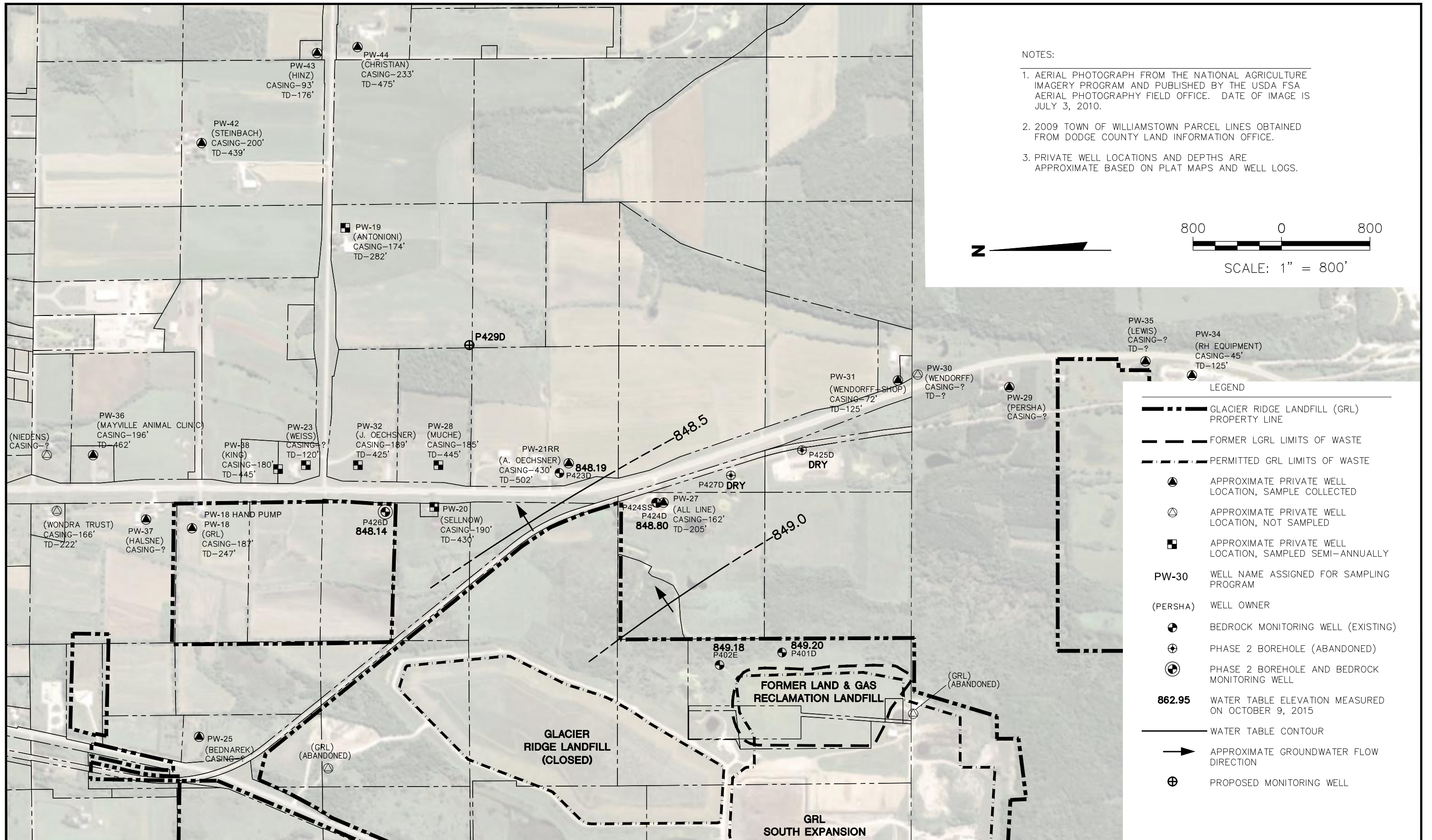
ADVANCED DISPOSAL SERVICES  
 GLACIER RIDGE LANDFILL, LLC.

SITE VOC INVESTIGATION  
 LAND AND GAS RECLAMATION LANDFILL  
 DODGE COUNTY, WISCONSIN

CROSS SECTION A-A'

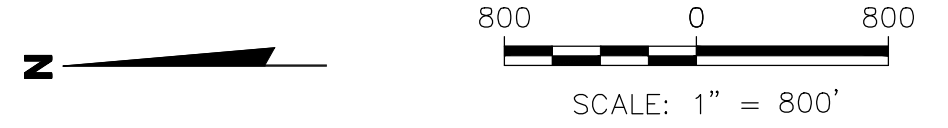
FIGURE  
 3

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NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS JULY 3, 2010.
2. 2009 TOWN OF WILLIAMSTOWN PARCEL LINES OBTAINED FROM DODGE COUNTY LAND INFORMATION OFFICE.
3. PRIVATE WELL LOCATIONS AND DEPTHS ARE APPROXIMATE BASED ON PLAT MAPS AND WELL LOGS.

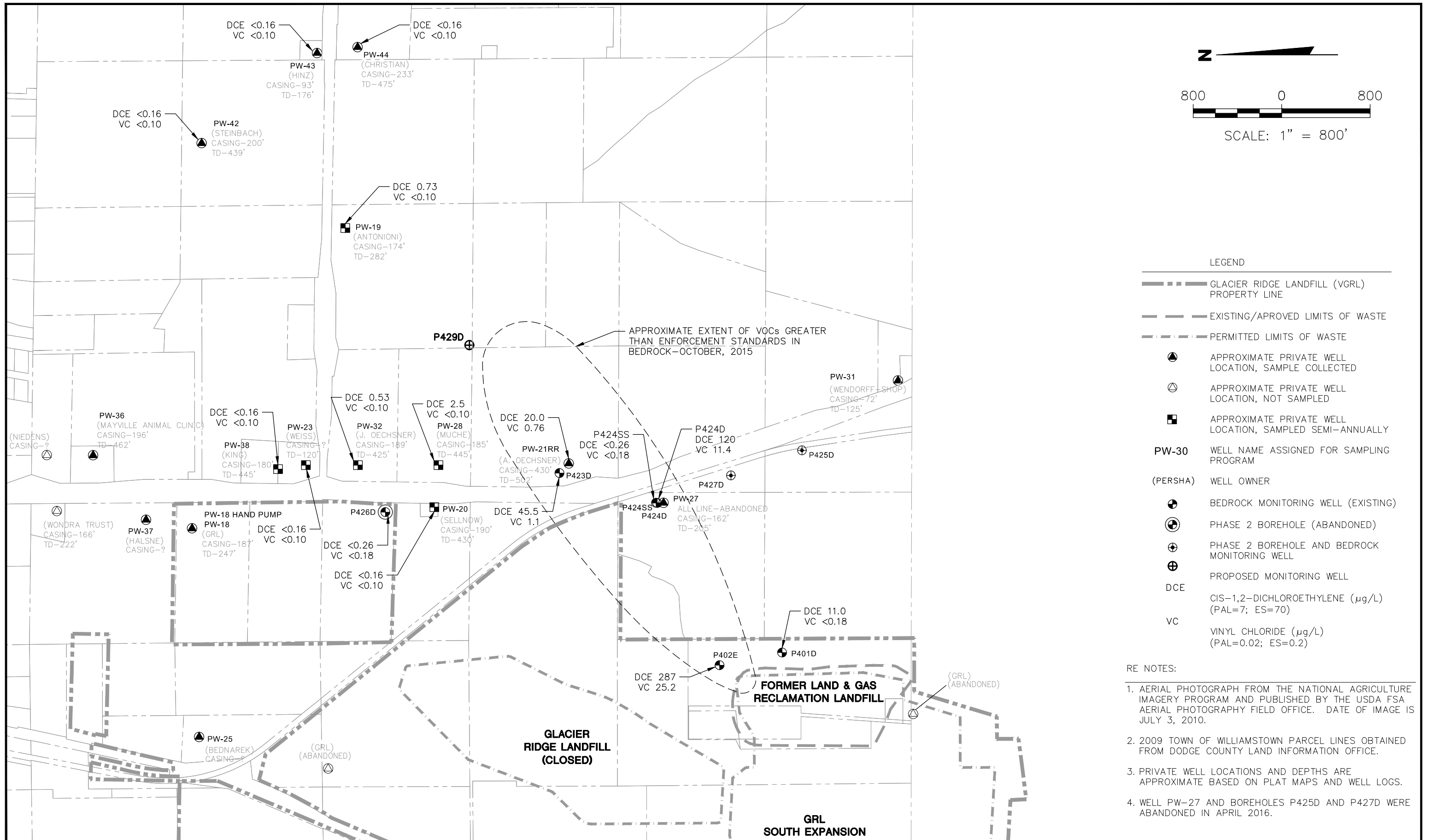


**LEGEND**

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLE COLLECTED
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- APPROXIMATE PRIVATE WELL LOCATION, SAMPLED SEMI-ANNUALLY
- PW-30** WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA)** WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- PHASE 2 BOREHOLE (ABANDONED)
- PHASE 2 BOREHOLE AND BEDROCK MONITORING WELL
- 862.95** WATER TABLE ELEVATION MEASURED ON OCTOBER 9, 2015
- WATER TABLE CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- PROPOSED MONITORING WELL

PROJECT NO. 3744	DRAWN BY: AHB	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	 CLIENT	ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC.	VOC INVESTIGATION LAND AND GAS RECLAMATION LANDFILL DODGE COUNTY, WISCONSIN	DOLOMITE BEDROCK GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS	FIGURE
DRAWN: 04/01/16	CHECKED BY: EO			SITE			4
REVISED: 06/06/16	APPROVED BY:						

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PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	EO
REVISED:	06/06/16	APPROVED BY:	

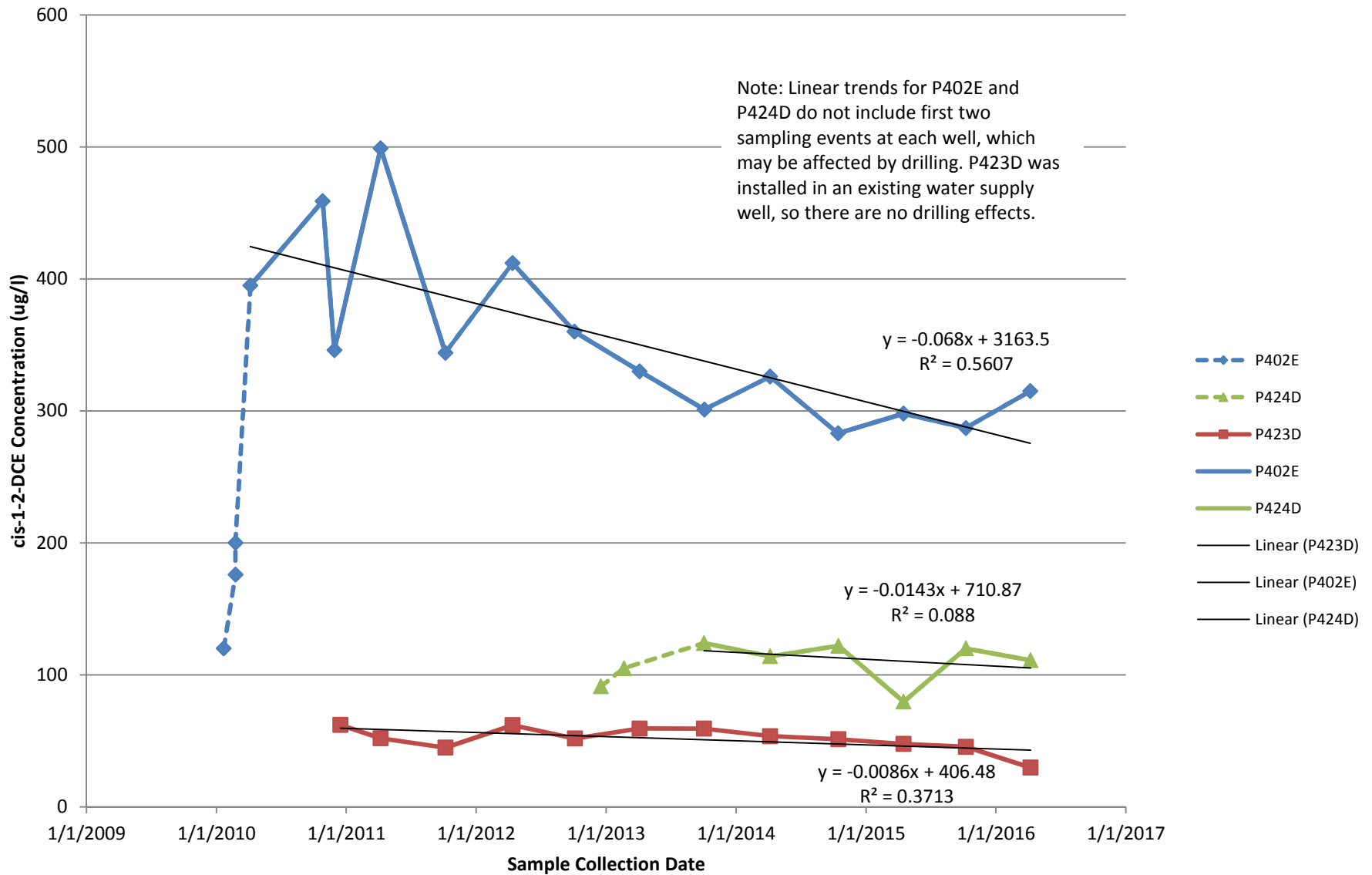
ENGINEER	<b>SCS ENGINEERS</b>
	2830 DAIRY DRIVE MADISON, WI 53718-6751
	PHONE: (608) 224-2830

CLIENT	<b>Advanced Disposal</b>
	ADVANCED DISPOSAL SERVICES
	GLACIER RIDGE LANDFILL, LLC.

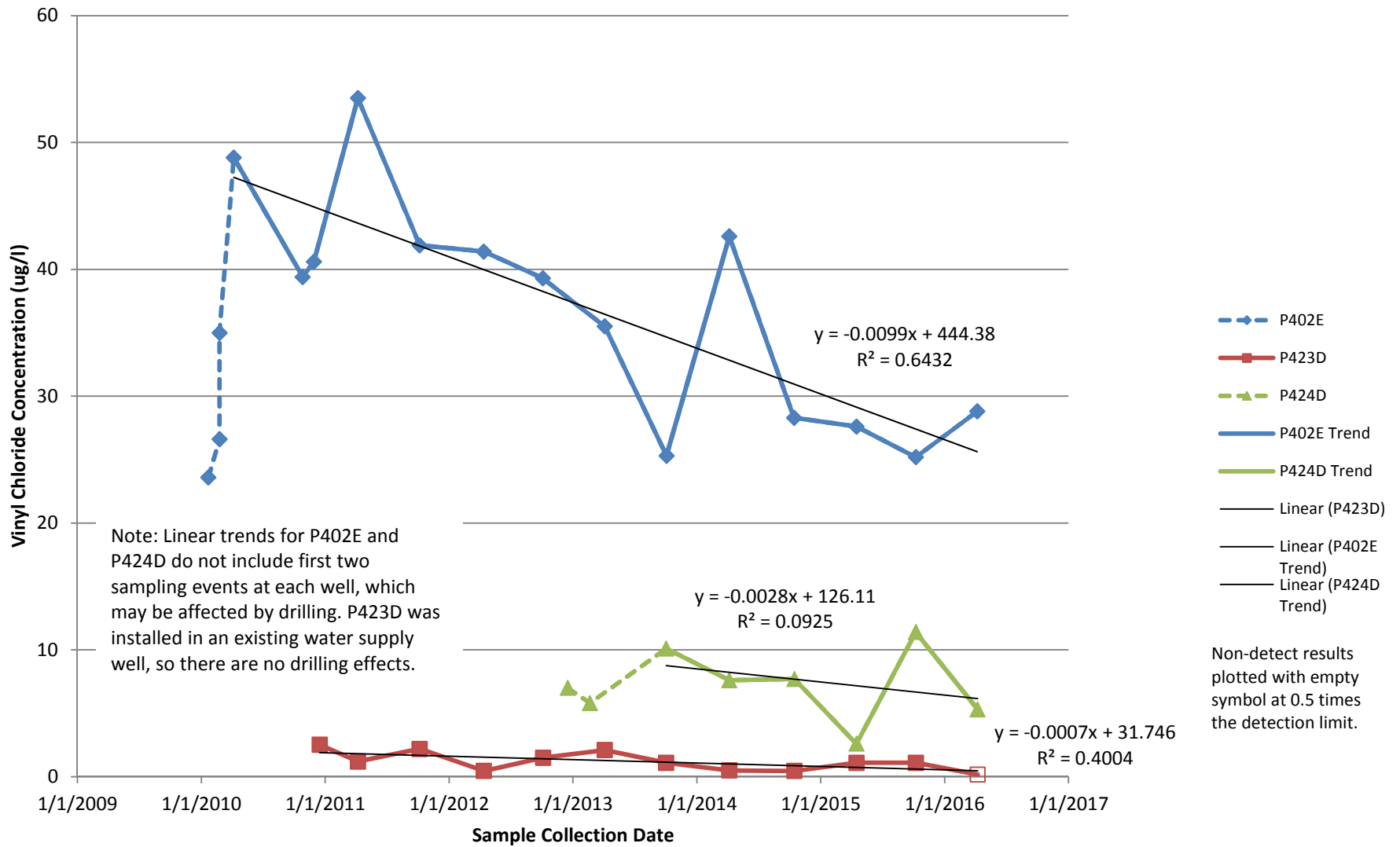
SITE	VOC INVESTIGATION
	LAND AND GAS RECLAMATION LANDFILL
	DODGE COUNTY, WISCONSIN

FIGURE	VOCs IN BEDROCK GROUNDWATER
	OCTOBER 2015
	5

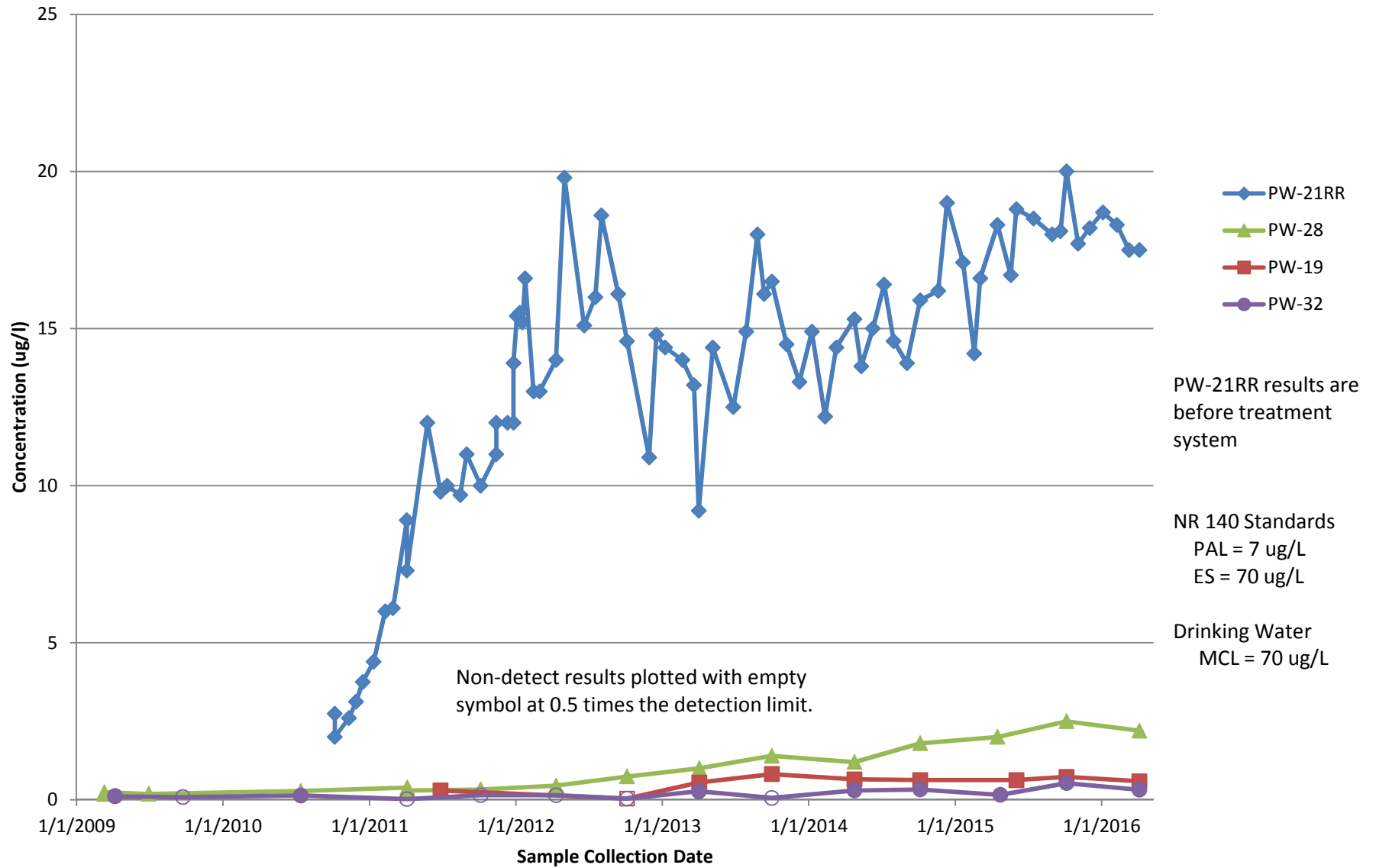
### Figure 6. Cis-1,2-DCE Concentration Trends in Bedrock Monitoring Wells



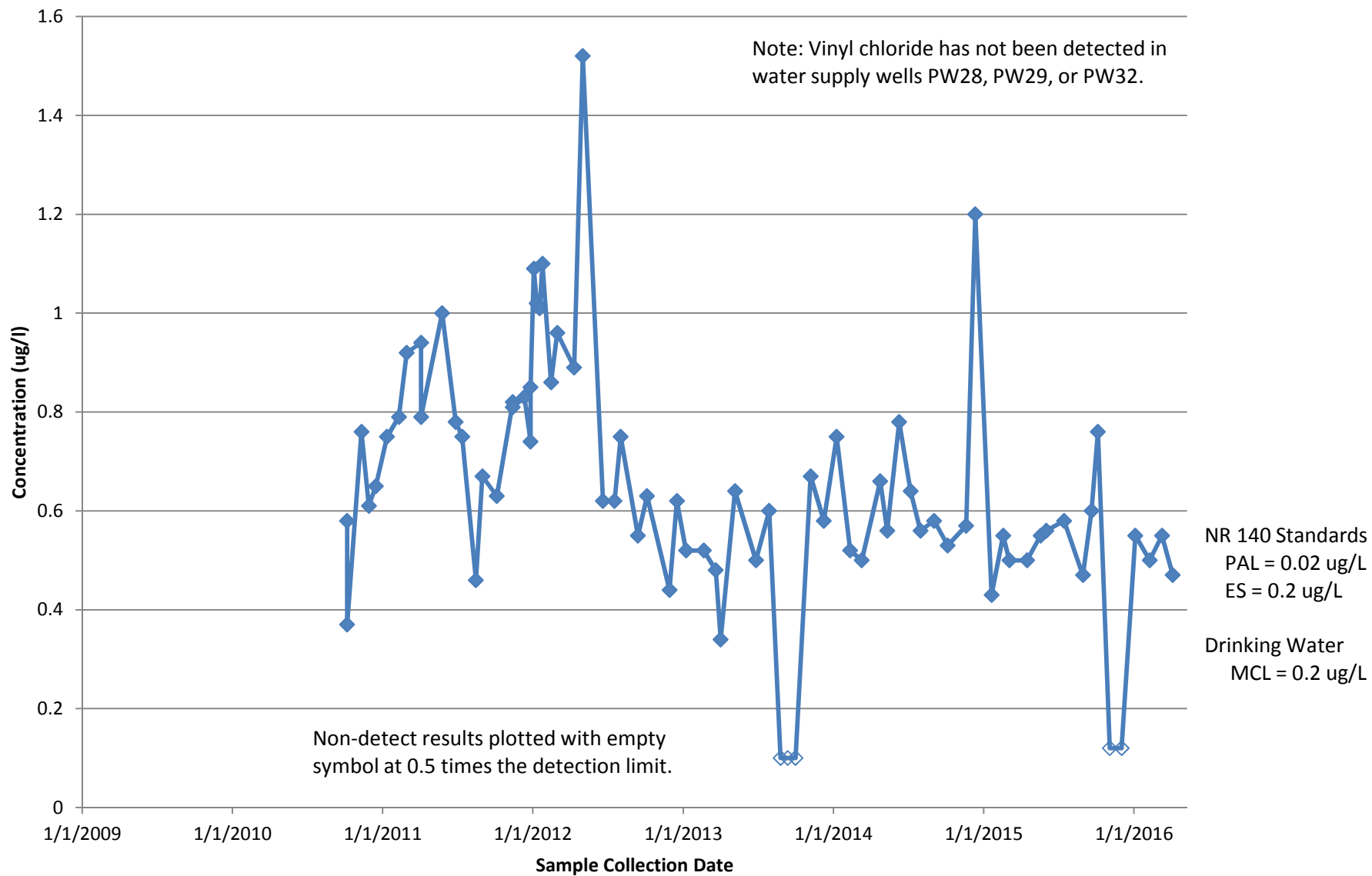
### Figure 7. Vinyl Chloride Concentration Trends in Bedrock Monitoring Wells



**Figure 8. Cis-1,2-Dichloroethylene Trends in Water Supply Wells Downgradient from LGRL**



### Figure 9. Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)





## **ATTACHMENT A**

Boring Logs and Monitoring Well Construction and Development Forms

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Land and Gas Reclamation Landfill SCS#: 25211374.49		License/Permit/Monitoring Number 01118		Boring Number P-425D	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Steffes Badger Well Drilling		Date Drilling Started 12/17/2013		Date Drilling Completed 12/18/2013	
Drilling Method rotary		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet		Surface Elevation 971.40 Feet	
Borehole Diameter 6.0 in.		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane 537,268 N, 23,819,380 E S/C/N		Lat 43° 28' 14.0"		1403.8 Feet <input checked="" type="checkbox"/> N 7361.4 Feet <input checked="" type="checkbox"/> E	
1/4 of 1/4 of Section , T N, R		Long 88° 32' 48.00"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dodge		County Code 14	
				Civil Town/City/ or Village Town of Willamstown	

Sample	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments				
										Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200					
	SI			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SILTY SAND, brown, fine with fine gravel	SM													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Eric J. [Signature]</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711	Tel: (608) 224-2830 Fax:
---	---	-----------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.







Boring Number **P-425D**

Use only as an attachment to Form 4400-122.

Page **5** of **11**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S7			91	SHALE, greenish gray										
			92											
			93											
			94											
			95											
			96											
			97											
			98											
			99											
S8			100	SHALE, greenish gray										
			101											
			102											
			103											
			104											
			105											
			106											
			107											
			108											
S9			109	SHALE, greenish gray										
			110											
			111											
			112											
			113											
			114											
			115											

Boring Number **P-425D**

Use only as an attachment to Form 4400-122.

Page 6 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S10			116	SHALE, dark greenish gray										
			117											
			118											
			119											
			120											
			121											
			122											
			123											
			124											
			125											
S11			126	SHALE, dark greenish gray										
			127											
			128											
			129											
			130											
			131											
			132											
			133											
			134											
			135											
136														
137														
138														
139														
140														

Boring Number **P-425D**

Use only as an attachment to Form 4400-122.

Page **7** of **11**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
ST2			141	SHALE, dark greenish gray										
			142											
			143											
			144											
			145											
			146											
			147											
			148											
			149											
S13			150	SHALE, greenish gray										
			151											
			152											
			153											
			154											
			155											
			156											
			157											
			158											
S14			159	SHALE, greenish gray										
			160											
			161											
			162											
			163											
			164											
			165											



Boring Number **P-425D**

Use only as an attachment to Form 4400-122.

Page 8 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S15			166	SHALE, greenish gray										
			167											
			168											
			169											
			170											
			171											
			172											
			173											
			174											
			175											
S16			176	SHALE, greenish gray										
			177											
			178											
			179											
			180											
			181											
			182											
			183											
			184											
			185											
S17			186											
			187											
			188											
			189											
			190											



Boring Number **P-425D**

Use only as an attachment to Form 4400-122.

Page 10 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S21			216	DOLOMITE, greenish gray										
			217											
			218											
			219											
			220											
			221											
			222											
			223											
			224											
			225											
			226											
S22			227	DOLOMITE, light greenish gray										
			228											
			229											
			230											
			231											
			232											
			233											
			234											
			235											
			236											
237														
238														
239														
240														



**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information** **2. Facility / Owner Information**

County <b>Dodge</b>		WI Unique Well # of Removed Well _____	Heap # <b>P4250</b>	Facility Name <b>Land and Gas Reclamation Landfill</b>	
Latitude / Longitude (see instructions) <b>43.460523</b> N <b>88.545074</b> W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) _____	
1/4 1/4 <b>SE</b> 1/4 <b>SE</b> or Gov't Lot #	Section <b>35</b>	Township <b>12 N</b>	Range <b>16</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring # <b>01118</b>	
Well Street Address <b>N 7361 State Road 67</b>		Well ZIP Code <b>53050</b>		Original Well Owner <b>Land and Gas Reclamation Landfill</b>	
Well City, Village or Town <b>Town of Williamsstown</b>		Lot # _____		Present Well Owner <b>Advanced Disposal Services</b>	
Subdivision Name _____		City of Present Owner <b>Horicon</b>		State <b>WI</b>	ZIP Code <b>53032</b>
Reason for Removal from Service <b>Soil Boring/Temp Well</b>		WI Unique Well # of Replacement Well _____		<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>	

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well      Original Construction Date (mm/dd/yyyy)  
 Water Well      **12/17/20183**

Borehole / Drillhole      If a Well Construction Report is available, please attach.

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): \_\_\_\_\_

Formation Type:  
 Unconsolidated Formation       Bedrock

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Liner(s) perforated?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity       Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials

Neat Cement Grout       Concrete

Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout

Granular Bentonite       Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>3/4" Bentonite Chips</b>	Surface	<b>240</b>	<b>92 sacks</b>	

**6. Comments**

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Badger Well Drilling</b>	License # <b>6109</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>4-14-16</b>	Date Received	Noted By
Street of Route <b>N7900 Locust Ln.</b>	Telephone Number <b>(920) 753-2406</b>	Signature of Person Doing Work <i>David Sepper</i>	Comments	
City <b>Mt. Calvary</b>	State <b>WI</b>	ZIP Code <b>53057</b>	Date Signed <b>4-30-16</b>	


Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Land and Gas Reclamation Landfill SCS#: 25211374.49		License/Permit/Monitoring Number 01118		Boring Number P-426D	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Steffes Badger Well Drilling		Date Drilling Started 12/27/2013		Date Drilling Completed 12/27/2013	
Drilling Method rotary		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet		Surface Elevation 953.50 Feet	
Borehole Diameter 6.0 in.		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane 537,268 N, 23,819,380 E S/C/N		Lat 43° 28' 14.0"		5012.8 Feet <input checked="" type="checkbox"/> N 6875.8 Feet <input checked="" type="checkbox"/> E	
1/4 of 1/4 of Section , T N, R		Long 88° 32' 48.00"		<input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Dodge	County Code 14	Civil Town/City/ or Village Town of Willamstown
-------------	-----------------	-------------------	--

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200			
S1			1	SILTY SAND, pale brown, fine to medium with subrounded gravel	SM											
			2													
			3													
			4													
			5													
			6	SILTY SAND, light brownish gray, fine to medium with subrounded gravel	SM											
			7													
			8													
			9													
			10													
			11													
			12													
			13													
			14													
			15													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711	Tel: (608) 224-2830 Fax:
--	---	-----------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page 2 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S2			16	SILTY SAND, light brownish gray, fine	SM				Dry					
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
S3			26	SILTY SAND, light brownish gray, fine to medium with subrounded gravel	SM				Dry					
			27											
			28											
			29											
			30											
			31											
			32											
			33											
			34											
			35											
S4			36						Dry					
			37											
			38											
			39											
			40											

Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page 3 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			41	SILTY SAND, light brownish gray, fine with subangular gravel	SM									
			42											
			43											
			44											
S5			45											
			46											
			47											
			48											
			49											
			50	SILTY SAND, fine with subrounded gravel										
			51											
			52											
			53											
			54											
S6			55	M										
			56											
			57											
			58											
			59											
			60	SHALE, greenish gray										
			61											
			62											
			63											
			64											
S7			65	M										





Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

Page 5 of 11

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			91	SHALE, greenish gray										
			92											
			93											
			94											
S10			95											W
			96	SHALE, greenish gray										
			97											
			98											
			99											
			100											
			101	SHALE, grayish brown										
			102											
			103											
			104											
S11			105										W	
			106											
			107											
			108											
			109											
			110											
			111											
			112											
			113											
			114											
			115											



Boring Number **P-426D**

Use only as an attachment to Form 4400-122.

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S15			141	SHALE, greenish gray											
															142
															143
															144
															145
															146
															147
															148
															149
															150
S16			150	SHALE, greenish gray											
															151
															152
															153
															154
															155
															156
															157
															158
															159
															160
															161
															162
															163
															164
			165												











Route to:  Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Veolia - Land & Gas Reclamation Landfill		Local Grid Location of Well 6875.38 ft. <input type="checkbox"/> N. <input type="checkbox"/> S. 5012.64 ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name P426D	
Facility License, Permit or Monitoring No. 01118		Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID 114052290		St. Plane 537268.4 ft. N, 2381938.0 ft. E. S/C/N		Date Well Installed 08 / 15 / 2015	
Type of Well Well Code 12 / PZ		Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 35, T. 12 N, R. 16 <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Dan Steffes	
Distance from Waste/Source 3.600 ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input type="checkbox"/>				Badger Well Drilling	

A. Protective pipe, top elevation 955.57 ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation 955.64 ft. MSL		2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Anodized Aluminum <input type="checkbox"/> Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____	
C. Land surface elevation 953.28 ft. MSL		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>	
D. Surface seal, bottom _____ ft. MSL or 12.5 ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. 9.4 Lbs/gal mud weight . . . . . Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ 36 Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>	
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint #15 <input type="checkbox"/> b. Volume added 0.25 ft <sup>3</sup>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint #40 <input checked="" type="checkbox"/> b. Volume added 4.5 ft <sup>3</sup>	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>	
Describe _____		10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
17. Source of water (attach analysis, if required): Drillers shop		b. Manufacturer Environmental Manufacturing c. Slot size: 0.020 in. d. Slotted length: 19.5 ft.	
E. Bentonite seal, top 762.58 ft. MSL or 190.7 ft.		11. Backfill material (below filter pack): None <input type="checkbox"/> 14 3/4" bentonite chips <input checked="" type="checkbox"/>	
F. Fine sand, top 758.28 ft. MSL or 195.0 ft.			
G. Filter pack, top 757.28 ft. MSL or 196.0 ft.			
H. Screen joint, top 754.28 ft. MSL or 199.0 ft.			
I. Well bottom 733.88 ft. MSL or 219.4 ft.			
J. Filter pack, bottom 729.28 ft. MSL or 224.0 ft.			
K. Borehole, bottom 703.28 ft. MSL or 250.0 ft.			
L. Borehole, diameter 6.0 in.			
M. O.D. well casing 2.38 in.			
N. I.D. well casing 1.94 in.			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Eric J. Jellison Firm SES Engineers  
BT Squared, Inc. 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Veolia - Land &amp; Gas Reclamation Landfill</b>	County Name <b>Dodge</b>	Well Name <b>P426D</b>
Facility License, Permit or Monitoring Number <b>01118</b>	County Code <b>14</b>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other \_\_\_\_\_

3. Time spent developing well \_\_\_\_\_ 90 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 221 . 4 ft.

5. Inside diameter of well \_\_\_\_\_ 1 . 94 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 28 . 4 gal.

7. Volume of water removed from well \_\_\_\_\_ 180 . 0 gal.

8. Volume of water added (if any) \_\_\_\_\_ 0 . gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

11. Depth to Water Before Development After Development  
(from top of well casing) a. \_\_\_\_\_ 103 . 55 ft. \_\_\_\_\_ 103 . 75 ft.

Date b. 05 / 18 / 2015 05 / 18 / 2015  
m m d d y y y y m m d d y y y y

Time c. \_\_\_\_\_ 11 : 50  a.m. \_\_\_\_\_ 14 : 20  p.m.

12. Sediment in well bottom \_\_\_\_\_ inches \_\_\_\_\_ inches

13. Water clarity Clear  10 Clear  20  
Turbid  15 Turbid  25  
(Describe) (Describe)

slightly turbid \_\_\_\_\_ clear \_\_\_\_\_  
light gray \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l  
solids

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm  
First Name: Eric Last Name: Oelkers  
Firm: SCS Engineers

17. Additional comments on development:

Well was also developed with air during drilling as an open hole prior to installation of casing, sand pack and seal.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Jacob Last Name: Margelofsky

Facility/Firm: Advanced Disposal Services

Street: N 7296 Highway V

City/State/Zip: Horicon, WI 53032

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Eric Oelkers*

Print Name: Eric Oelkers

Firm: SCS Engineers

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Land and Gas Reclamation Landfill		SCS#: 25211374.49		License/Permit/Monitoring Number 01118		Boring Number P-427D	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Steffes Badger Well Drilling				Date Drilling Started 12/1/2015		Date Drilling Completed 12/3/2015	
Drilling Method rotary		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet		Surface Elevation 961.00 Feet		Borehole Diameter 6.0 in.			
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane 537,268 N, 23,819,380 E S/C/N NW 1/4 of SE 1/4 of Section 35, T 12 N, R 16 E				Lat 43° 28' 14.0" Long 88° 32' 48.00"		Local Grid Location 2046.5 Feet <input checked="" type="checkbox"/> N 7148.5 Feet <input checked="" type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dodge		County Code 14		Civil Town/City/ or Village Town of Willamstown	

Sample	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
										Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				1	SILTY SAND, brown, fine to coarse grained, gravel.											
				2												
				3												
				4												
				5												
				6												
				7												
				8		SM										
				9	Same as above except, gray brown, dense, trace clay.											
				10												
				11												
				12												
				13												
				14												
				15												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Evan Felber</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711	Tel: (608) 224-2830 Fax:
---------------------------------	---	-----------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **P-427D**

Use only as an attachment to Form 4400-122.

Page **2** of 10

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P 200	RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index			
			16	SILTY SAND, grayish brown, fine to coarse grained, gravel.	SM										
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												
			31	SHALE, gray.	SHALE										
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												

S1

W

Water, casing  
36.5' bgs.

Boring Number **P-427D**

Use only as an attachment to Form 4400-122.

Page **3** of **10**

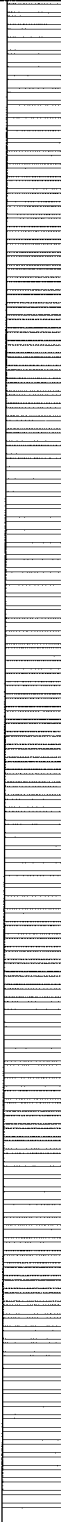
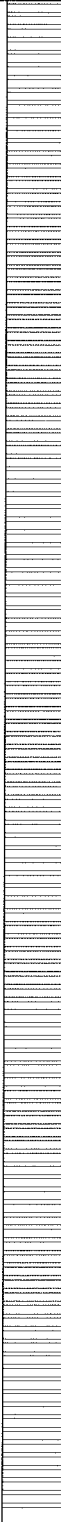
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S2			41	SHALE, gray.										
			42											
			43											
S3			44											
			45											
			46											
S4			47											
			48											
			49											
			50											
			51											
			52											
			53		SHALE									
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											



Boring Number **P-427D**

Use only as an attachment to Form 4400-122.

Page **5** of **10**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S8			91	SHALE, gray.										
														92
														93
														94
														95
														96
														97
														98
														99
														100
S9			101	SHALE										
														102
														103
														104
														105
														106
														107
														108
														109
														110
														111
														112
														113
														114
														115





Boring Number **P-427D**

Use only as an attachment to Form 4400-122.




Page **7** of **10**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
ST2			141	SHALE, gray.						W				
			142											
			143											
			144											
			145											
			146											
			147											
			148											
			149											
S13			150											SHALE
			151											
			152											
			153											
			154											
			155											
			156											
			157											
			158											
			159											
S14			160						W					
			161											
			162											
			163											
			164											
			165											

Boring Number **P-427D**

Use only as an attachment to Form 4400-122.

Page **8** of **10**



Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S15			166	SHALE, gray.										
			167											
			168											
			169											
			170											
			171											
			172											
			173											
			174											
			175											
S16			176	LIMESTONE, gray.	SHALE									
			177											
			178											
			179											
			180											
			181											
			182											
			183											
			184											
			185											
			186	LIMESTONE										
			187											
			188											
			189											
			190											



Boring Number **P-427D**

Use only as an attachment to Form 4400-122.

Page 10 of 10

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S20			216	LIMESTONE, gray.										
														217
														218
														219
														220
														221
														222
														223
														224
														225
														226
S21			227	End of boring at 230 ft bgs.										
														228
														229
														230

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	<b>Route to DNR Bureau:</b>		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County <b>Dodge</b>		WI Unique Well # of Removed Well		Facility Name <b>Land and Gas Reclamation Landfill</b>		Facility ID (FID or PWS)	
Latitude / Longitude (see instructions) <b>43.462071</b> N <b>-88.545811</b> W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		License/Permit/Monitoring # <b>01118</b>	
1/4 1/4 NW 1/4 SE or Gov't Lot #		Section <b>35</b>		Township <b>12 N</b>		Range <b>16 E</b>	
Well Street Address <b>N 7361 State Road 67</b>				Original Well Owner <b>Land and Gas Reclamation Landfill</b>			
Well City, Village or Town <b>Town of Williamstown</b>				Present Well Owner <b>Advanced Disposal Services</b>			
Subdivision Name				Well ZIP Code <b>53050</b>		Mailing Address of Present Owner <b>N 7296 Highway V</b>	
				City of Present Owner <b>Horicon</b>		State <b>WI</b>	
				Lot #		ZIP Code <b>53032</b>	

Reason for Removal from Service <b>Soil Boring/Temp Well</b>	WI Unique Well # of Replacement Well
---	--------------------------------------

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>12/1/2015</b>	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input checked="" type="checkbox"/> Bedrock		Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.) <b>6</b>	Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>6</b>	Casing Depth (ft.) <b>120</b>	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, to what depth (feet)?	Depth to Water (feet)	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
		If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
		Required Method of Placing Sealing Material	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped		
			<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____		
		Sealing Materials	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete		
			<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips		
		For Monitoring Wells and Monitoring Well Boreholes Only:	<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout		
			<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Surface</b>	<b>233</b>	<b>106 sacks</b>	

**6. Comments**

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Badger Well Drilling</b>	License # <b>6109</b>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>4-14-16</b>	Date Received	Noted By	
Street or Route <b>N7900 Locust Ln.</b>	City <b>Mt. Calvary</b>	State <b>WI</b>	ZIP Code <b>53057</b>	Telephone Number <b>(920) 753-2406</b>	Comments
Signature of Person Doing Work <b>Daniel Seppes</b>				Date Signed <b>4-30-16</b>	

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**  
*PW - 27*

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <i>Dodge</i>		WI Unique Well # of Removed Well <i>06-5439</i>		Hicap # —		Facility Name	
Latitude / Longitude (see instructions) <i>43.463850</i> N <i>88.546482</i> W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
License/Permit/Monitoring #		Original Well Owner <i>Jerome Dechsner</i> <del>All-Line Construction, Inc.</del>		Present Well Owner <i>Same All-Line Construction, Inc.</i>		Mailing Address of Present Owner <i>N9126 # County Road V</i>	
1/4 1/4 NE 1/4 SE or Gov't Lot #		Section <i>35</i>		Township <i>12 N</i>		Range <i>16</i> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <i>N 7477 State Road 67</i>				City of Present Owner <i>Mayville</i>			
Well City, Village or Town <i>Town of Williamstown</i>				Well ZIP Code <i>53050</i>			
Subdivision Name —				State <i>WI</i>		ZIP Code <i>53050</i>	

Reason for Removal from Service		WI Unique Well # of Replacement Well	
<i>House Demolished</i>		—	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <i>10/01/1969</i>		Pump and piping removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		If a Well Construction Report is available, please attach.		Was casing cut off below surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input checked="" type="checkbox"/> Bedrock		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Total Well Depth From Ground Surface (ft.) <i>162 205</i>		Casing Diameter (in.) <i>6</i>		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips	
Lower Drillhole Diameter (in.) <i>6</i>		Casing Depth (ft.) <i>162</i>		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)? <i>162'</i> Depth to Water (feet)			

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<i>205</i>	<i>52 Sacks</i>	

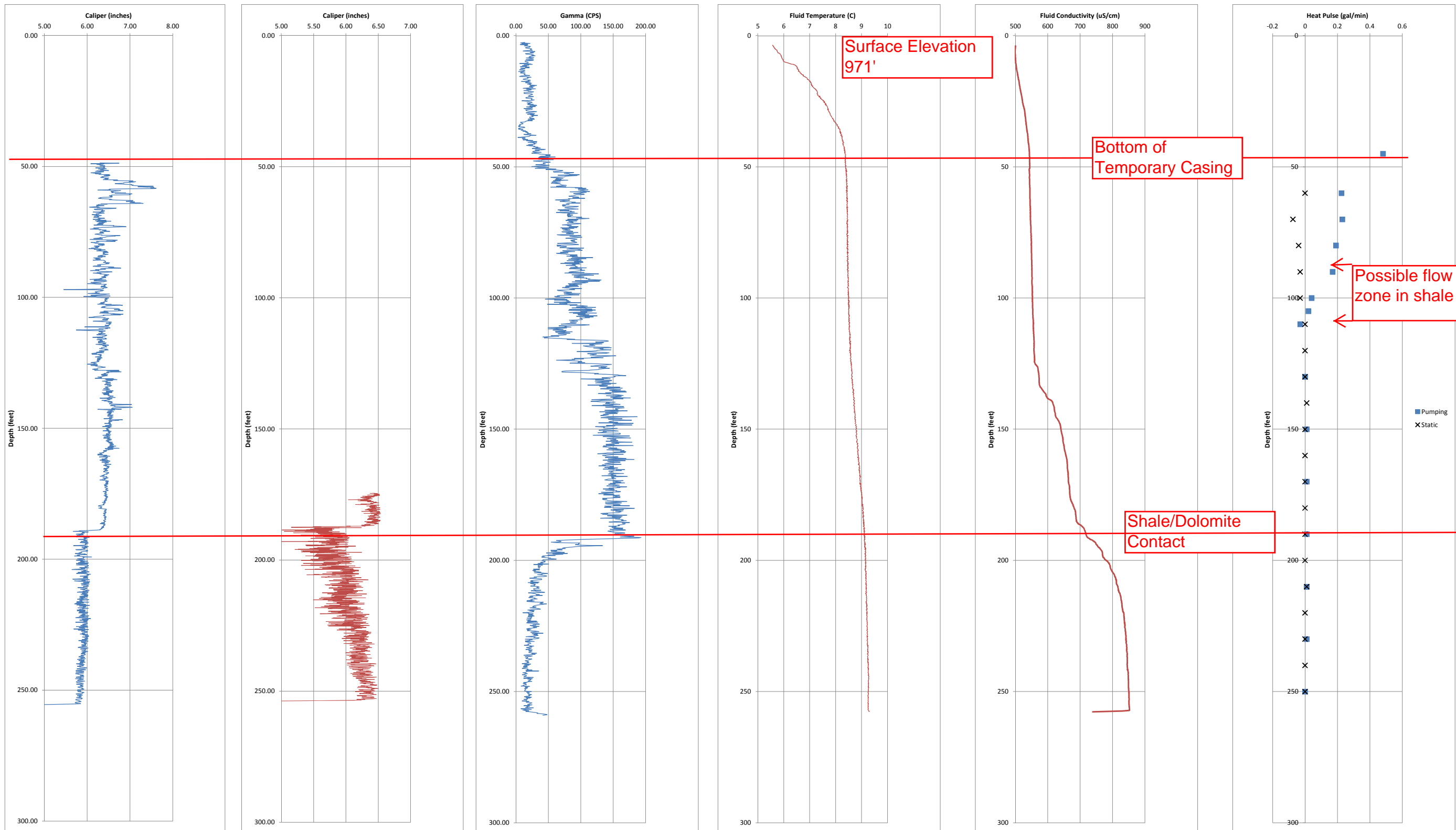
**6. Comments**

7. Supervision of Work			DNR Use Only		
Name of Person or Firm Doing Filling & Sealing <i>Badger Well Drilling</i>		License # <i>6109</i>	Date of Filling & Sealing or Verification (mm/dd/yyyy) <i>4-15-16</i>	Date Received	Noted By
Street of Route <i>N 7900 Locust Ln.</i>		Telephone Number <i>(920) 763-2406</i>		Comments	
City <i>Mt. Calvary</i>	State <i>WI</i>	ZIP Code <i>53057</i>	Signature of Person Doing Work <i>Daniel Steffen</i>	Date Signed <i>4-30-16</i>	

**ATTACHMENT B**

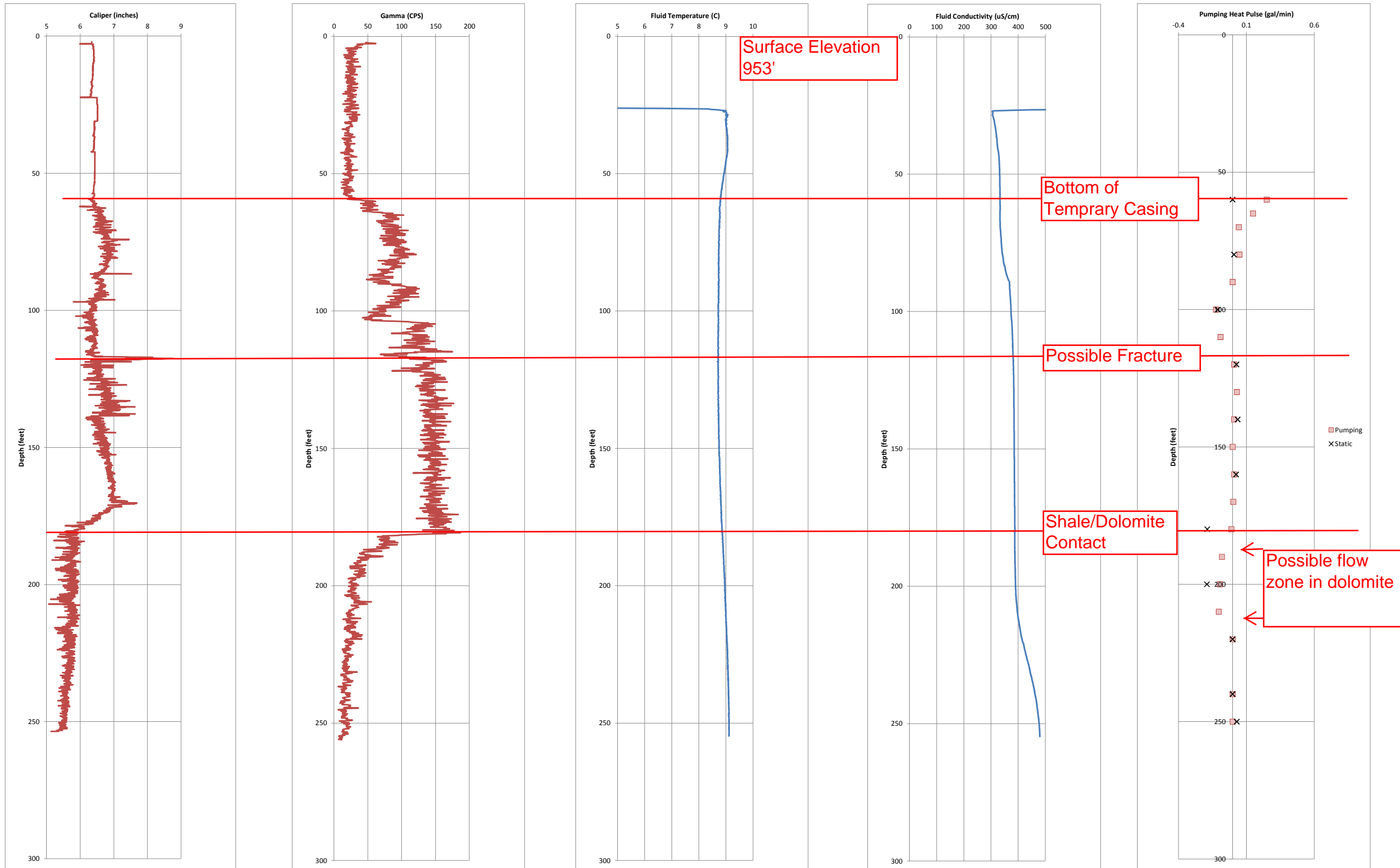
Geophysical Logs

P425 Borehole Logging





P426 Borehole Logging



## **ATTACHMENT C**

Laboratory Data Reports

November 20, 2013

General Manager  
Advanced Disposal Glacier Ridge Landfil LLC  
N7296 Hwy V  
Horicon, WI 53032


RE: Project: LGRL INVESTIGATION WELLS 10/13  
Pace Project No.: 4085808

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between October 02, 2013 and November 13, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga

cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Tim Curry, Advanced Disposal Services  
Frank Perugini, ESC (Environmental Sampling Corp)



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS 10/13  
Pace Project No.: 4085808

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4085808001	MW-1B	Water	10/01/13 12:30	10/02/13 09:10
4086035001	P-423D	Water	10/03/13 11:20	10/04/13 09:00
4086035002	P-424D	Water	10/03/13 12:45	10/04/13 09:00
4086035003	P-424SS	Water	10/03/13 14:30	10/04/13 09:00
4086035004	P-422B	Water	10/03/13 14:15	10/04/13 09:00
4086035005	TRIP BLANK	Water	10/03/13 00:00	10/04/13 09:00
4086117001	P-401D	Water	10/04/13 10:45	10/05/13 07:37
4086117002	P-402E	Water	10/04/13 11:30	10/05/13 07:37
4085808009	MW-1B	Water	09/30/13 00:00	11/13/13 14:45
4085808010	P-401D	Water	09/30/13 00:00	11/13/13 14:45
4085808011	P-402E	Water	09/30/13 00:00	11/13/13 14:45
4085808012	P-422B	Water	09/30/13 00:00	11/13/13 14:45
4085808013	P-423D	Water	09/30/13 00:00	11/13/13 14:45
4085808014	P-424D	Water	09/30/13 00:00	11/13/13 14:45
4085808015	P-424SS	Water	09/30/13 00:00	11/13/13 15:10

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: MW-1B**      **Lab ID: 4085808001**      Collected: 10/01/13 12:30      Received: 10/02/13 09:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>276</b>	mg/L	5.0	0.15	1	10/04/13 09:00	10/16/13 21:08		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/05/13 01:46	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/05/13 01:46	79-00-5	
1,1-Dichloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		10/05/13 01:46	75-34-3	
1,1-Dichloroethene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/05/13 01:46	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/05/13 01:46	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.38</b>	ug/L	1.0	0.38	1		10/05/13 01:46	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/05/13 01:46	95-50-1	
1,2-Dichloroethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/05/13 01:46	107-06-2	
1,2-Dichloropropane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/05/13 01:46	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/05/13 01:46	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/05/13 01:46	106-46-7	
2-Butanone (MEK)	<b>&lt;2.7</b>	ug/L	20.0	2.7	1		10/05/13 01:46	78-93-3	
Acetone	<b>&lt;2.6</b>	ug/L	20.0	2.6	1		10/05/13 01:46	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/05/13 01:46	71-43-2	
Bromodichloromethane	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/05/13 01:46	75-27-4	
Bromoform	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		10/05/13 01:46	75-25-2	
Bromomethane	<b>&lt;0.43</b>	ug/L	5.0	0.43	1		10/05/13 01:46	74-83-9	
Carbon disulfide	<b>&lt;0.71</b>	ug/L	5.0	0.71	1		10/05/13 01:46	75-15-0	
Carbon tetrachloride	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/05/13 01:46	56-23-5	
Chlorobenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/05/13 01:46	108-90-7	
Chloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/05/13 01:46	75-00-3	
Chloroform	<b>&lt;0.69</b>	ug/L	5.0	0.69	1		10/05/13 01:46	67-66-3	
Chloromethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/05/13 01:46	74-87-3	
Dibromochloromethane	<b>&lt;1.9</b>	ug/L	5.0	1.9	1		10/05/13 01:46	124-48-1	
Dibromomethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/05/13 01:46	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.40</b>	ug/L	1.0	0.40	1		10/05/13 01:46	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/05/13 01:46	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.49</b>	ug/L	1.0	0.49	1		10/05/13 01:46	1634-04-4	
Methylene Chloride	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/05/13 01:46	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/05/13 01:46	91-20-3	
Styrene	<b>&lt;0.35</b>	ug/L	1.0	0.35	1		10/05/13 01:46	100-42-5	
Tetrachloroethene	<b>&lt;0.47</b>	ug/L	1.0	0.47	1		10/05/13 01:46	127-18-4	
Tetrahydrofuran	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/05/13 01:46	109-99-9	
Toluene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/05/13 01:46	108-88-3	
Trichloroethene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/05/13 01:46	79-01-6	
Trichlorofluoromethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/05/13 01:46	75-69-4	
Vinyl chloride	<b>4.1</b>	ug/L	1.0	0.18	1		10/05/13 01:46	75-01-4	
cis-1,2-Dichloroethene	<b>2.7</b>	ug/L	1.0	0.42	1		10/05/13 01:46	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.29</b>	ug/L	1.0	0.29	1		10/05/13 01:46	10061-01-5	
m&p-Xylene	<b>&lt;0.82</b>	ug/L	2.0	0.82	1		10/05/13 01:46	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/05/13 01:46	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/05/13 01:46	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: MW-1B**      **Lab ID: 4085808001**      Collected: 10/01/13 12:30      Received: 10/02/13 09:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		10/05/13 01:46	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91 %		43-137		1		10/05/13 01:46	460-00-4	
Dibromofluoromethane (S)	98 %		70-130		1		10/05/13 01:46	1868-53-7	
Toluene-d8 (S)	103 %		55-137		1		10/05/13 01:46	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.76	Std. Units			1		10/01/13 13:05		
Field Specific Conductance	774	umhos/cm			1		10/01/13 13:05		
Turbidity	N	NTU			1		10/01/13 13:05		
Apparent Color	N	no units			1		10/01/13 13:05		
Odor	N	no units			1		10/01/13 13:05		
Temperature, Water (C)	12.9	deg C			1		10/01/13 13:05		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	83.5	mg/L	20.0	10.0	5		10/08/13 17:32	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	216	mg/L	20.0	8.6	1		10/09/13 10:56		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

Sample: P-423D Lab ID: 4086035001 Collected: 10/03/13 11:20 Received: 10/04/13 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	413	mg/L	5.0	0.15	1	10/21/13 08:05	11/06/13 11:24		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		10/07/13 22:12	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		10/07/13 22:12	79-00-5	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/07/13 22:12	75-34-3	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		10/07/13 22:12	75-35-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		10/07/13 22:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		10/07/13 22:12	106-93-4	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		10/07/13 22:12	95-50-1	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		10/07/13 22:12	107-06-2	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/07/13 22:12	78-87-5	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		10/07/13 22:12	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		10/07/13 22:12	106-46-7	
2-Butanone (MEK)	<2.7	ug/L	20.0	2.7	1		10/07/13 22:12	78-93-3	
Acetone	<2.6	ug/L	20.0	2.6	1		10/07/13 22:12	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/07/13 22:12	71-43-2	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		10/07/13 22:12	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		10/07/13 22:12	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		10/07/13 22:12	74-83-9	
Carbon disulfide	<0.71	ug/L	5.0	0.71	1		10/07/13 22:12	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/07/13 22:12	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		10/07/13 22:12	108-90-7	
Chloroethane	1.1	ug/L	1.0	0.44	1		10/07/13 22:12	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		10/07/13 22:12	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		10/07/13 22:12	74-87-3	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		10/07/13 22:12	124-48-1	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		10/07/13 22:12	74-95-3	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		10/07/13 22:12	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/07/13 22:12	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		10/07/13 22:12	1634-04-4	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		10/07/13 22:12	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/07/13 22:12	91-20-3	
Styrene	<0.35	ug/L	1.0	0.35	1		10/07/13 22:12	100-42-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		10/07/13 22:12	127-18-4	
Tetrahydrofuran	<1.5	ug/L	5.0	1.5	1		10/07/13 22:12	109-99-9	
Toluene	<0.44	ug/L	1.0	0.44	1		10/07/13 22:12	108-88-3	
Trichloroethene	0.74J	ug/L	1.0	0.36	1		10/07/13 22:12	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		10/07/13 22:12	75-69-4	
Vinyl chloride	1.1	ug/L	1.0	0.18	1		10/07/13 22:12	75-01-4	
cis-1,2-Dichloroethene	59.3	ug/L	1.0	0.42	1		10/07/13 22:12	156-59-2	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		10/07/13 22:12	10061-01-5	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		10/07/13 22:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/07/13 22:12	95-47-6	
trans-1,2-Dichloroethene	2.4	ug/L	1.0	0.37	1		10/07/13 22:12	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-423D**      **Lab ID: 4086035001**      Collected: 10/03/13 11:20      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		10/07/13 22:12	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	43-137		1		10/07/13 22:12	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/07/13 22:12	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		10/07/13 22:12	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	6.95	Std. Units			1		10/03/13 11:20		
Field Specific Conductance	765	umhos/cm			1		10/03/13 11:20		
Turbidity	N	NTU			1		10/03/13 11:20		
Apparent Color	N	no units			1		10/03/13 11:20		
Odor	N	no units			1		10/03/13 11:20		
Temperature, Water (C)	14.9	deg C			1		10/03/13 11:20		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	30.6	mg/L	4.0	2.0	1		10/10/13 13:19	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	356	mg/L	20.0	8.6	1		10/09/13 11:32		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-424D**      **Lab ID: 4086035002**      Collected: 10/03/13 12:45      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>444</b>	mg/L	5.0	0.15	1	10/21/13 08:05	11/06/13 11:44		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:34	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/07/13 22:34	79-00-5	
1,1-Dichloroethane	<b>1.1</b>	ug/L	1.0	0.28	1		10/07/13 22:34	75-34-3	
1,1-Dichloroethene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/07/13 22:34	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/07/13 22:34	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.38</b>	ug/L	1.0	0.38	1		10/07/13 22:34	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:34	95-50-1	
1,2-Dichloroethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:34	107-06-2	
1,2-Dichloropropane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:34	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/07/13 22:34	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/07/13 22:34	106-46-7	
2-Butanone (MEK)	<b>&lt;2.7</b>	ug/L	20.0	2.7	1		10/07/13 22:34	78-93-3	
Acetone	<b>&lt;2.6</b>	ug/L	20.0	2.6	1		10/07/13 22:34	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:34	71-43-2	
Bromodichloromethane	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/07/13 22:34	75-27-4	
Bromoform	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		10/07/13 22:34	75-25-2	
Bromomethane	<b>&lt;0.43</b>	ug/L	5.0	0.43	1		10/07/13 22:34	74-83-9	
Carbon disulfide	<b>&lt;0.71</b>	ug/L	5.0	0.71	1		10/07/13 22:34	75-15-0	
Carbon tetrachloride	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/07/13 22:34	56-23-5	
Chlorobenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/07/13 22:34	108-90-7	
Chloroethane	<b>2.6</b>	ug/L	1.0	0.44	1		10/07/13 22:34	75-00-3	
Chloroform	<b>&lt;0.69</b>	ug/L	5.0	0.69	1		10/07/13 22:34	67-66-3	
Chloromethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/07/13 22:34	74-87-3	
Dibromochloromethane	<b>&lt;1.9</b>	ug/L	5.0	1.9	1		10/07/13 22:34	124-48-1	
Dibromomethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:34	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.40</b>	ug/L	1.0	0.40	1		10/07/13 22:34	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:34	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.49</b>	ug/L	1.0	0.49	1		10/07/13 22:34	1634-04-4	
Methylene Chloride	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/07/13 22:34	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/07/13 22:34	91-20-3	
Styrene	<b>&lt;0.35</b>	ug/L	1.0	0.35	1		10/07/13 22:34	100-42-5	
Tetrachloroethene	<b>&lt;0.47</b>	ug/L	1.0	0.47	1		10/07/13 22:34	127-18-4	
Tetrahydrofuran	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/07/13 22:34	109-99-9	
Toluene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:34	108-88-3	
Trichloroethene	<b>3.2</b>	ug/L	1.0	0.36	1		10/07/13 22:34	79-01-6	
Trichlorofluoromethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:34	75-69-4	
Vinyl chloride	<b>10.1</b>	ug/L	1.0	0.18	1		10/07/13 22:34	75-01-4	
cis-1,2-Dichloroethene	<b>124</b>	ug/L	1.0	0.42	1		10/07/13 22:34	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.29</b>	ug/L	1.0	0.29	1		10/07/13 22:34	10061-01-5	
m&p-Xylene	<b>&lt;0.82</b>	ug/L	2.0	0.82	1		10/07/13 22:34	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:34	95-47-6	
trans-1,2-Dichloroethene	<b>3.5</b>	ug/L	1.0	0.37	1		10/07/13 22:34	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-424D**      **Lab ID: 4086035002**      Collected: 10/03/13 12:45      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		10/07/13 22:34	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88 %		43-137		1		10/07/13 22:34	460-00-4	
Dibromofluoromethane (S)	105 %		70-130		1		10/07/13 22:34	1868-53-7	
Toluene-d8 (S)	98 %		55-137		1		10/07/13 22:34	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.10</b>	Std. Units			1		10/03/13 12:45		
Field Specific Conductance	<b>774</b>	umhos/cm			1		10/03/13 12:45		
Turbidity	<b>N</b>	NTU			1		10/03/13 12:45		
Apparent Color	<b>N</b>	no units			1		10/03/13 12:45		
Odor	<b>N</b>	no units			1		10/03/13 12:45		
Temperature, Water (C)	<b>15.0</b>	deg C			1		10/03/13 12:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>38.5</b>	mg/L	4.0	2.0	1		10/10/13 13:53	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>379</b>	mg/L	20.0	8.6	1		10/09/13 11:33		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-424SS**      **Lab ID: 4086035003**      Collected: 10/03/13 14:30      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>298</b>	mg/L	5.0	0.15	1	10/21/13 08:05	11/06/13 11:51		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:57	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/07/13 22:57	79-00-5	
1,1-Dichloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		10/07/13 22:57	75-34-3	
1,1-Dichloroethene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/07/13 22:57	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/07/13 22:57	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.38</b>	ug/L	1.0	0.38	1		10/07/13 22:57	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:57	95-50-1	
1,2-Dichloroethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:57	107-06-2	
1,2-Dichloropropane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:57	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/07/13 22:57	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/07/13 22:57	106-46-7	
2-Butanone (MEK)	<b>&lt;2.7</b>	ug/L	20.0	2.7	1		10/07/13 22:57	78-93-3	
Acetone	<b>&lt;2.6</b>	ug/L	20.0	2.6	1		10/07/13 22:57	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:57	71-43-2	
Bromodichloromethane	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		10/07/13 22:57	75-27-4	
Bromoform	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		10/07/13 22:57	75-25-2	
Bromomethane	<b>&lt;0.43</b>	ug/L	5.0	0.43	1		10/07/13 22:57	74-83-9	
Carbon disulfide	<b>&lt;0.71</b>	ug/L	5.0	0.71	1		10/07/13 22:57	75-15-0	
Carbon tetrachloride	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/07/13 22:57	56-23-5	
Chlorobenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/07/13 22:57	108-90-7	
Chloroethane	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:57	75-00-3	
Chloroform	<b>&lt;0.69</b>	ug/L	5.0	0.69	1		10/07/13 22:57	67-66-3	
Chloromethane	<b>&lt;0.39</b>	ug/L	1.0	0.39	1		10/07/13 22:57	74-87-3	
Dibromochloromethane	<b>&lt;1.9</b>	ug/L	5.0	1.9	1		10/07/13 22:57	124-48-1	
Dibromomethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:57	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.40</b>	ug/L	1.0	0.40	1		10/07/13 22:57	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:57	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.49</b>	ug/L	1.0	0.49	1		10/07/13 22:57	1634-04-4	
Methylene Chloride	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/07/13 22:57	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/07/13 22:57	91-20-3	
Styrene	<b>&lt;0.35</b>	ug/L	1.0	0.35	1		10/07/13 22:57	100-42-5	
Tetrachloroethene	<b>&lt;0.47</b>	ug/L	1.0	0.47	1		10/07/13 22:57	127-18-4	
Tetrahydrofuran	<b>&lt;1.5</b>	ug/L	5.0	1.5	1		10/07/13 22:57	109-99-9	
Toluene	<b>&lt;0.44</b>	ug/L	1.0	0.44	1		10/07/13 22:57	108-88-3	
Trichloroethene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		10/07/13 22:57	79-01-6	
Trichlorofluoromethane	<b>&lt;0.48</b>	ug/L	1.0	0.48	1		10/07/13 22:57	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/07/13 22:57	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.42</b>	ug/L	1.0	0.42	1		10/07/13 22:57	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.29</b>	ug/L	1.0	0.29	1		10/07/13 22:57	10061-01-5	
m&p-Xylene	<b>&lt;0.82</b>	ug/L	2.0	0.82	1		10/07/13 22:57	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/07/13 22:57	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/07/13 22:57	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-424SS**      **Lab ID: 4086035003**      Collected: 10/03/13 14:30      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		10/07/13 22:57	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89 %		43-137		1		10/07/13 22:57	460-00-4	
Dibromofluoromethane (S)	97 %		70-130		1		10/07/13 22:57	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		10/07/13 22:57	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.05</b>	Std. Units			1		10/03/13 14:30		
Field Specific Conductance	<b>547</b>	umhos/cm			1		10/03/13 14:30		
Turbidity	<b>N</b>	NTU			1		10/03/13 14:30		
Apparent Color	<b>N</b>	no units			1		10/03/13 14:30		
Odor	<b>N</b>	no units			1		10/03/13 14:30		
Temperature, Water (C)	<b>17.6</b>	deg C			1		10/03/13 14:30		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>2.8J</b>	mg/L	4.0	2.0	1		10/10/13 14:05	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>320</b>	mg/L	20.0	8.6	1		10/09/13 11:34		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-422B**      **Lab ID: 4086035004**      Collected: 10/03/13 14:15      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	169	mg/L	5.0	0.15	1	10/21/13 08:05	11/06/13 11:58		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		10/07/13 23:19	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		10/07/13 23:19	79-00-5	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/07/13 23:19	75-34-3	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		10/07/13 23:19	75-35-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		10/07/13 23:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		10/07/13 23:19	106-93-4	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		10/07/13 23:19	95-50-1	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		10/07/13 23:19	107-06-2	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/07/13 23:19	78-87-5	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		10/07/13 23:19	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		10/07/13 23:19	106-46-7	
2-Butanone (MEK)	<2.7	ug/L	20.0	2.7	1		10/07/13 23:19	78-93-3	
Acetone	<2.6	ug/L	20.0	2.6	1		10/07/13 23:19	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/07/13 23:19	71-43-2	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		10/07/13 23:19	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		10/07/13 23:19	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		10/07/13 23:19	74-83-9	
Carbon disulfide	<0.71	ug/L	5.0	0.71	1		10/07/13 23:19	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/07/13 23:19	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		10/07/13 23:19	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		10/07/13 23:19	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		10/07/13 23:19	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		10/07/13 23:19	74-87-3	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		10/07/13 23:19	124-48-1	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		10/07/13 23:19	74-95-3	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		10/07/13 23:19	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/07/13 23:19	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		10/07/13 23:19	1634-04-4	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		10/07/13 23:19	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/07/13 23:19	91-20-3	
Styrene	<0.35	ug/L	1.0	0.35	1		10/07/13 23:19	100-42-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		10/07/13 23:19	127-18-4	
Tetrahydrofuran	<1.5	ug/L	5.0	1.5	1		10/07/13 23:19	109-99-9	
Toluene	<0.44	ug/L	1.0	0.44	1		10/07/13 23:19	108-88-3	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		10/07/13 23:19	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		10/07/13 23:19	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/07/13 23:19	75-01-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		10/07/13 23:19	156-59-2	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		10/07/13 23:19	10061-01-5	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		10/07/13 23:19	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/07/13 23:19	95-47-6	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		10/07/13 23:19	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-422B**      **Lab ID: 4086035004**      Collected: 10/03/13 14:15      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		10/07/13 23:19	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	43-137		1		10/07/13 23:19	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/07/13 23:19	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		10/07/13 23:19	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.35	Std. Units			1		10/03/13 14:15		
Field Specific Conductance	468	umhos/cm			1		10/03/13 14:15		
Turbidity	N	NTU			1		10/03/13 14:15		
Apparent Color	N	no units			1		10/03/13 14:15		
Odor	N	no units			1		10/03/13 14:15		
Temperature, Water (C)	16.0	deg C			1		10/03/13 14:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	25.8	mg/L	4.0	2.0	1		10/10/13 14:16	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	196	mg/L	20.0	8.6	1		10/09/13 11:34		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: TRIP BLANK**      **Lab ID: 4086035005**      Collected: 10/03/13 00:00      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		10/07/13 21:49	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		10/07/13 21:49	79-00-5	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/07/13 21:49	75-34-3	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		10/07/13 21:49	75-35-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		10/07/13 21:49	96-12-8	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		10/07/13 21:49	106-93-4	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		10/07/13 21:49	95-50-1	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		10/07/13 21:49	107-06-2	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/07/13 21:49	78-87-5	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		10/07/13 21:49	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		10/07/13 21:49	106-46-7	
2-Butanone (MEK)	<2.7	ug/L	20.0	2.7	1		10/07/13 21:49	78-93-3	
Acetone	<2.6	ug/L	20.0	2.6	1		10/07/13 21:49	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/07/13 21:49	71-43-2	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		10/07/13 21:49	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		10/07/13 21:49	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		10/07/13 21:49	74-83-9	
Carbon disulfide	<0.71	ug/L	5.0	0.71	1		10/07/13 21:49	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/07/13 21:49	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		10/07/13 21:49	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		10/07/13 21:49	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		10/07/13 21:49	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		10/07/13 21:49	74-87-3	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		10/07/13 21:49	124-48-1	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		10/07/13 21:49	74-95-3	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		10/07/13 21:49	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/07/13 21:49	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		10/07/13 21:49	1634-04-4	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		10/07/13 21:49	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/07/13 21:49	91-20-3	
Styrene	<0.35	ug/L	1.0	0.35	1		10/07/13 21:49	100-42-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		10/07/13 21:49	127-18-4	
Tetrahydrofuran	<1.5	ug/L	5.0	1.5	1		10/07/13 21:49	109-99-9	
Toluene	<0.44	ug/L	1.0	0.44	1		10/07/13 21:49	108-88-3	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		10/07/13 21:49	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		10/07/13 21:49	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/07/13 21:49	75-01-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		10/07/13 21:49	156-59-2	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		10/07/13 21:49	10061-01-5	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		10/07/13 21:49	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/07/13 21:49	95-47-6	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		10/07/13 21:49	156-60-5	
trans-1,3-Dichloropropene	<0.30	ug/L	1.0	0.30	1		10/07/13 21:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88 %		43-137		1		10/07/13 21:49	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		10/07/13 21:49	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: TRIP BLANK**      **Lab ID: 4086035005**      Collected: 10/03/13 00:00      Received: 10/04/13 09:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
<b>Surrogates</b>									
Toluene-d8 (S)	99 %		55-137		1		10/07/13 21:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-401D**      **Lab ID: 4086117001**      Collected: 10/04/13 10:45      Received: 10/05/13 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	251	mg/L	5.0	0.15	1	10/10/13 14:20	10/18/13 11:13		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.44	ug/L	1.0	0.44	1		10/09/13 09:04	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1.0	0.39	1		10/09/13 09:04	79-00-5	
1,1-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/09/13 09:04	75-34-3	
1,1-Dichloroethene	<0.43	ug/L	1.0	0.43	1		10/09/13 09:04	75-35-4	
1,2-Dibromo-3-chloropropane	<1.5	ug/L	5.0	1.5	1		10/09/13 09:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.38	ug/L	1.0	0.38	1		10/09/13 09:04	106-93-4	
1,2-Dichlorobenzene	<0.44	ug/L	1.0	0.44	1		10/09/13 09:04	95-50-1	
1,2-Dichloroethane	<0.48	ug/L	1.0	0.48	1		10/09/13 09:04	107-06-2	
1,2-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/09/13 09:04	78-87-5	
1,3-Dichlorobenzene	<0.45	ug/L	1.0	0.45	1		10/09/13 09:04	541-73-1	
1,4-Dichlorobenzene	<0.43	ug/L	1.0	0.43	1		10/09/13 09:04	106-46-7	
2-Butanone (MEK)	<2.7	ug/L	20.0	2.7	1		10/09/13 09:04	78-93-3	
Acetone	<2.6	ug/L	20.0	2.6	1		10/09/13 09:04	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/09/13 09:04	71-43-2	
Bromodichloromethane	<0.45	ug/L	1.0	0.45	1		10/09/13 09:04	75-27-4	
Bromoform	<0.33	ug/L	1.0	0.33	1		10/09/13 09:04	75-25-2	
Bromomethane	<0.43	ug/L	5.0	0.43	1		10/09/13 09:04	74-83-9	
Carbon disulfide	<0.71	ug/L	5.0	0.71	1		10/09/13 09:04	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/09/13 09:04	56-23-5	
Chlorobenzene	<0.36	ug/L	1.0	0.36	1		10/09/13 09:04	108-90-7	
Chloroethane	<0.44	ug/L	1.0	0.44	1		10/09/13 09:04	75-00-3	
Chloroform	<0.69	ug/L	5.0	0.69	1		10/09/13 09:04	67-66-3	
Chloromethane	<0.39	ug/L	1.0	0.39	1		10/09/13 09:04	74-87-3	
Dibromochloromethane	<1.9	ug/L	5.0	1.9	1		10/09/13 09:04	124-48-1	
Dibromomethane	<0.48	ug/L	1.0	0.48	1		10/09/13 09:04	74-95-3	
Dichlorodifluoromethane	<0.40	ug/L	1.0	0.40	1		10/09/13 09:04	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/09/13 09:04	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/L	1.0	0.49	1		10/09/13 09:04	1634-04-4	
Methylene Chloride	<0.36	ug/L	1.0	0.36	1		10/09/13 09:04	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/09/13 09:04	91-20-3	
Styrene	<0.35	ug/L	1.0	0.35	1		10/09/13 09:04	100-42-5	
Tetrachloroethene	<0.47	ug/L	1.0	0.47	1		10/09/13 09:04	127-18-4	
Tetrahydrofuran	<1.5	ug/L	5.0	1.5	1		10/09/13 09:04	109-99-9	
Toluene	<0.44	ug/L	1.0	0.44	1		10/09/13 09:04	108-88-3	
Trichloroethene	<0.36	ug/L	1.0	0.36	1		10/09/13 09:04	79-01-6	
Trichlorofluoromethane	<0.48	ug/L	1.0	0.48	1		10/09/13 09:04	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/09/13 09:04	75-01-4	
cis-1,2-Dichloroethene	<0.42	ug/L	1.0	0.42	1		10/09/13 09:04	156-59-2	
cis-1,3-Dichloropropene	<0.29	ug/L	1.0	0.29	1		10/09/13 09:04	10061-01-5	
m&p-Xylene	<0.82	ug/L	2.0	0.82	1		10/09/13 09:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/09/13 09:04	95-47-6	
trans-1,2-Dichloroethene	<0.37	ug/L	1.0	0.37	1		10/09/13 09:04	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-401D**      **Lab ID: 4086117001**      Collected: 10/04/13 10:45      Received: 10/05/13 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		10/09/13 09:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90 %		43-137		1		10/09/13 09:04	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		10/09/13 09:04	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		10/09/13 09:04	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.09</b>	Std. Units			1		10/04/13 10:45		
Field Specific Conductance	<b>682</b>	umhos/cm			1		10/04/13 10:45		
Turbidity	<b>N</b>	NTU			1		10/04/13 10:45		
Apparent Color	<b>N</b>	no units			1		10/04/13 10:45		
Odor	<b>N</b>	no units			1		10/04/13 10:45		
Temperature, Water (C)	<b>13.5</b>	deg C			1		10/04/13 10:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>12.6</b>	mg/L	4.0	2.0	1		10/10/13 18:20	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>360</b>	mg/L	20.0	8.6	1		10/18/13 11:48		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-402E**      **Lab ID: 4086117002**      Collected: 10/04/13 11:30      Received: 10/05/13 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>456</b>	mg/L	5.0	0.15	1	10/10/13 14:20	10/18/13 11:19		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.89</b>	ug/L	2.0	0.89	2		10/09/13 09:27	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.78</b>	ug/L	2.0	0.78	2		10/09/13 09:27	79-00-5	
1,1-Dichloroethane	<b>1.3J</b>	ug/L	2.0	0.57	2		10/09/13 09:27	75-34-3	
1,1-Dichloroethene	<b>&lt;0.85</b>	ug/L	2.0	0.85	2		10/09/13 09:27	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;3.0</b>	ug/L	10.0	3.0	2		10/09/13 09:27	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.76</b>	ug/L	2.0	0.76	2		10/09/13 09:27	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.88</b>	ug/L	2.0	0.88	2		10/09/13 09:27	95-50-1	
1,2-Dichloroethane	<b>&lt;0.95</b>	ug/L	2.0	0.95	2		10/09/13 09:27	107-06-2	
1,2-Dichloropropane	<b>&lt;1.0</b>	ug/L	2.0	1.0	2		10/09/13 09:27	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.90</b>	ug/L	2.0	0.90	2		10/09/13 09:27	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.87</b>	ug/L	2.0	0.87	2		10/09/13 09:27	106-46-7	
2-Butanone (MEK)	<b>&lt;5.4</b>	ug/L	40.0	5.4	2		10/09/13 09:27	78-93-3	
Acetone	<b>&lt;5.2</b>	ug/L	40.0	5.2	2		10/09/13 09:27	67-64-1	
Benzene	<b>&lt;1.0</b>	ug/L	2.0	1.0	2		10/09/13 09:27	71-43-2	
Bromodichloromethane	<b>&lt;0.91</b>	ug/L	2.0	0.91	2		10/09/13 09:27	75-27-4	
Bromoform	<b>&lt;0.65</b>	ug/L	2.0	0.65	2		10/09/13 09:27	75-25-2	
Bromomethane	<b>&lt;0.86</b>	ug/L	10.0	0.86	2		10/09/13 09:27	74-83-9	
Carbon disulfide	<b>&lt;1.4</b>	ug/L	10.0	1.4	2		10/09/13 09:27	75-15-0	
Carbon tetrachloride	<b>&lt;0.73</b>	ug/L	2.0	0.73	2		10/09/13 09:27	56-23-5	
Chlorobenzene	<b>&lt;0.72</b>	ug/L	2.0	0.72	2		10/09/13 09:27	108-90-7	
Chloroethane	<b>4.5</b>	ug/L	2.0	0.89	2		10/09/13 09:27	75-00-3	
Chloroform	<b>&lt;1.4</b>	ug/L	10.0	1.4	2		10/09/13 09:27	67-66-3	
Chloromethane	<b>&lt;0.78</b>	ug/L	2.0	0.78	2		10/09/13 09:27	74-87-3	
Dibromochloromethane	<b>&lt;3.8</b>	ug/L	10.0	3.8	2		10/09/13 09:27	124-48-1	
Dibromomethane	<b>&lt;0.96</b>	ug/L	2.0	0.96	2		10/09/13 09:27	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.80</b>	ug/L	2.0	0.80	2		10/09/13 09:27	75-71-8	
Ethylbenzene	<b>&lt;1.0</b>	ug/L	2.0	1.0	2		10/09/13 09:27	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.99</b>	ug/L	2.0	0.99	2		10/09/13 09:27	1634-04-4	
Methylene Chloride	<b>&lt;0.72</b>	ug/L	2.0	0.72	2		10/09/13 09:27	75-09-2	
Naphthalene	<b>&lt;5.0</b>	ug/L	10.0	5.0	2		10/09/13 09:27	91-20-3	
Styrene	<b>&lt;0.70</b>	ug/L	2.0	0.70	2		10/09/13 09:27	100-42-5	
Tetrachloroethene	<b>&lt;0.94</b>	ug/L	2.0	0.94	2		10/09/13 09:27	127-18-4	
Tetrahydrofuran	<b>&lt;3.0</b>	ug/L	10.0	3.0	2		10/09/13 09:27	109-99-9	
Toluene	<b>&lt;0.88</b>	ug/L	2.0	0.88	2		10/09/13 09:27	108-88-3	
Trichloroethene	<b>8.3</b>	ug/L	2.0	0.73	2		10/09/13 09:27	79-01-6	
Trichlorofluoromethane	<b>&lt;0.95</b>	ug/L	2.0	0.95	2		10/09/13 09:27	75-69-4	
Vinyl chloride	<b>25.3</b>	ug/L	2.0	0.37	2		10/09/13 09:27	75-01-4	
cis-1,2-Dichloroethene	<b>301</b>	ug/L	2.0	0.84	2		10/09/13 09:27	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.58</b>	ug/L	2.0	0.58	2		10/09/13 09:27	10061-01-5	
m&p-Xylene	<b>&lt;1.6</b>	ug/L	4.0	1.6	2		10/09/13 09:27	179601-23-1	
o-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	2		10/09/13 09:27	95-47-6	
trans-1,2-Dichloroethene	<b>20.5</b>	ug/L	2.0	0.74	2		10/09/13 09:27	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

**Sample: P-402E**      **Lab ID: 4086117002**      Collected: 10/04/13 11:30      Received: 10/05/13 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.61</b>	ug/L	2.0	0.61	2		10/09/13 09:27	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89 %		43-137		2		10/09/13 09:27	460-00-4	
Dibromofluoromethane (S)	104 %		70-130		2		10/09/13 09:27	1868-53-7	
Toluene-d8 (S)	99 %		55-137		2		10/09/13 09:27	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>6.88</b>	Std. Units			1		10/04/13 11:30		
Field Specific Conductance	<b>670</b>	umhos/cm			1		10/04/13 11:30		
Turbidity	<b>N</b>	NTU			1		10/04/13 11:30		
Apparent Color	<b>N</b>	no units			1		10/04/13 11:30		
Odor	<b>N</b>	no units			1		10/04/13 11:30		
Temperature, Water (C)	<b>13.0</b>	deg C			1		10/04/13 11:30		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>61.6</b>	mg/L	20.0	10.0	5		10/11/13 15:00	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>397</b>	mg/L	20.0	8.6	1		10/18/13 11:51		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: MW-1B**                      **Lab ID: 4085808009**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	924.83	feet			1		09/30/13 00:00		
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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-401D**                      **Lab ID: 4085808010**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	<b>848.97</b>	feet			1		09/30/13 00:00		
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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-402E**                      **Lab ID: 4085808011**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	<b>848.99</b>	feet			1		09/30/13 00:00		
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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-422B**                      **Lab ID: 4085808012**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	<b>927.03</b>	feet			1		09/30/13 00:00		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-423D**                      **Lab ID: 4085808013**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	<b>847.69</b>	feet			1		09/30/13 00:00		
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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-424D**      **Lab ID: 4085808014**      Collected: 09/30/13 00:00      Received: 11/13/13 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>847.80</b>	feet			1		09/30/13 00:00		
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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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**Sample: P-424SS**      **Lab ID: 4085808015**      Collected: 09/30/13 00:00      Received: 11/13/13 15:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>847.66</b>	feet			1		09/30/13 00:00		
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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: MPRP/9256

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET Dissolved

Associated Lab Samples: 4085808001

METHOD BLANK: 868703

Matrix: Water

Associated Lab Samples: 4085808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	10/16/13 18:25	

LABORATORY CONTROL SAMPLE: 868704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		34.1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 868705 868706

Parameter	Units	4085778001		868705		868706		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Hardness by 2340B, Dissolved	mg/L	790		830	840				1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: MPRP/9307

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET Dissolved

Associated Lab Samples: 4086117001, 4086117002

METHOD BLANK: 872659

Matrix: Water

Associated Lab Samples: 4086117001, 4086117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	10/19/13 05:27	

LABORATORY CONTROL SAMPLE: 872660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		32.9			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872661 872662

Parameter	Units	4086129001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Total Hardness by 2340B, Dissolved	mg/L	602			633	636				0	20	

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**QUALITY CONTROL DATA**

Project: LGRL INVESTIGATION WELLS 10/13  
Pace Project No.: 4085808

QC Batch: MPRP/9365 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

METHOD BLANK: 879006 Matrix: Water  
Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	11/06/13 06:20	

LABORATORY CONTROL SAMPLE: 879007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		32.3			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 879008 879009

Parameter	Units	4085961002		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		Result	Conc.								RPD	RPD	
Total Hardness by 2340B, Dissolved	mg/L	355				400	409				2	20	

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch:	MSV/21607	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	4085808001		

METHOD BLANK: 868219 Matrix: Water

Associated Lab Samples: 4085808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	10/04/13 18:40	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	10/04/13 18:40	
1,1-Dichloroethane	ug/L	<0.28	1.0	10/04/13 18:40	
1,1-Dichloroethene	ug/L	<0.43	1.0	10/04/13 18:40	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	10/04/13 18:40	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	10/04/13 18:40	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	10/04/13 18:40	
1,2-Dichloroethane	ug/L	<0.48	1.0	10/04/13 18:40	
1,2-Dichloropropane	ug/L	<0.50	1.0	10/04/13 18:40	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	10/04/13 18:40	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	10/04/13 18:40	
2-Butanone (MEK)	ug/L	<2.7	20.0	10/04/13 18:40	
Acetone	ug/L	<2.6	20.0	10/04/13 18:40	
Benzene	ug/L	<0.50	1.0	10/04/13 18:40	
Bromodichloromethane	ug/L	<0.45	1.0	10/04/13 18:40	
Bromoform	ug/L	<0.33	1.0	10/04/13 18:40	
Bromomethane	ug/L	<0.43	5.0	10/04/13 18:40	
Carbon disulfide	ug/L	<0.71	5.0	10/04/13 18:40	
Carbon tetrachloride	ug/L	<0.37	1.0	10/04/13 18:40	
Chlorobenzene	ug/L	<0.36	1.0	10/04/13 18:40	
Chloroethane	ug/L	<0.44	1.0	10/04/13 18:40	
Chloroform	ug/L	<0.69	5.0	10/04/13 18:40	
Chloromethane	ug/L	<0.39	1.0	10/04/13 18:40	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	10/04/13 18:40	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	10/04/13 18:40	
Dibromochloromethane	ug/L	<1.9	5.0	10/04/13 18:40	
Dibromomethane	ug/L	<0.48	1.0	10/04/13 18:40	
Dichlorodifluoromethane	ug/L	<0.40	1.0	10/04/13 18:40	
Ethylbenzene	ug/L	<0.50	1.0	10/04/13 18:40	
m&p-Xylene	ug/L	<0.82	2.0	10/04/13 18:40	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	10/04/13 18:40	
Methylene Chloride	ug/L	<0.36	1.0	10/04/13 18:40	
Naphthalene	ug/L	<2.5	5.0	10/04/13 18:40	
o-Xylene	ug/L	<0.50	1.0	10/04/13 18:40	
Styrene	ug/L	<0.35	1.0	10/04/13 18:40	
Tetrachloroethane	ug/L	<0.47	1.0	10/04/13 18:40	
Tetrahydrofuran	ug/L	<1.5	5.0	10/04/13 18:40	
Toluene	ug/L	<0.44	1.0	10/04/13 18:40	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	10/04/13 18:40	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	10/04/13 18:40	
Trichloroethene	ug/L	<0.36	1.0	10/04/13 18:40	
Trichlorofluoromethane	ug/L	<0.48	1.0	10/04/13 18:40	
Vinyl chloride	ug/L	<0.18	1.0	10/04/13 18:40	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

METHOD BLANK: 868219

Matrix: Water

Associated Lab Samples: 4085808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	92	43-137	10/04/13 18:40	
Dibromofluoromethane (S)	%	96	70-130	10/04/13 18:40	
Toluene-d8 (S)	%	103	55-137	10/04/13 18:40	

LABORATORY CONTROL SAMPLE & LCSD: 868220

868221

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.8	49.8	102	100	70-136	2	20	
1,1,2-Trichloroethane	ug/L	50	53.3	53.5	107	107	70-130	0	20	
1,1-Dichloroethane	ug/L	50	55.5	54.1	111	108	70-146	3	20	
1,1-Dichloroethene	ug/L	50	55.4	54.2	111	108	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	51.1	98	102	46-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	48.3	96	97	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	51.9	53.5	104	107	70-130	3	20	
1,2-Dichloroethane	ug/L	50	51.6	50.0	103	100	70-144	3	20	
1,2-Dichloropropane	ug/L	50	53.3	53.9	107	108	70-136	1	20	
1,3-Dichlorobenzene	ug/L	50	50.0	51.3	100	103	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	48.1	48.7	96	97	70-130	1	20	
Benzene	ug/L	50	54.9	54.1	110	108	70-137	2	20	
Bromodichloromethane	ug/L	50	52.3	52.4	105	105	70-133	0	20	
Bromoform	ug/L	50	47.0	47.1	94	94	59-130	0	20	
Bromomethane	ug/L	50	43.3	48.8	87	98	41-148	12	20	
Carbon disulfide	ug/L	50	58.6	57.8	117	116	70-130	1	20	
Carbon tetrachloride	ug/L	50	49.3	48.7	99	97	70-154	1	20	
Chlorobenzene	ug/L	50	53.4	53.1	107	106	70-130	1	20	
Chloroethane	ug/L	50	57.0	55.6	114	111	70-139	2	20	
Chloroform	ug/L	50	51.8	51.4	104	103	70-130	1	20	
Chloromethane	ug/L	50	50.2	48.2	100	96	45-154	4	20	
cis-1,2-Dichloroethene	ug/L	50	52.7	51.7	105	103	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	46.5	46.4	93	93	70-136	0	20	
Dibromochloromethane	ug/L	50	47.6	48.4	95	97	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	40.0	38.8	80	78	20-157	3	20	
Ethylbenzene	ug/L	50	54.8	53.9	110	108	70-130	2	20	
m&p-Xylene	ug/L	100	111	110	111	110	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	31.6	31.2	63	62	59-141	1	20	
Methylene Chloride	ug/L	50	52.3	51.6	105	103	70-130	1	20	
o-Xylene	ug/L	50	54.9	54.6	110	109	70-130	1	20	
Styrene	ug/L	50	50.3	50.9	101	102	70-130	1	20	
Tetrachloroethene	ug/L	50	48.2	48.0	96	96	70-130	0	20	
Toluene	ug/L	50	52.7	52.4	105	105	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	54.3	53.0	109	106	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	45.1	45.5	90	91	55-135	1	20	
Trichloroethene	ug/L	50	54.2	54.1	108	108	70-130	0	20	
Trichlorofluoromethane	ug/L	50	50.5	48.8	101	98	50-150	3	20	
Vinyl chloride	ug/L	50	55.2	53.7	110	107	61-143	3	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

LABORATORY CONTROL SAMPLE & LCSD:		868220	868221							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%				103	102	43-137			
Dibromofluoromethane (S)	%				100	98	70-130			
Toluene-d8 (S)	%				99	98	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		869020	869021									
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		4085865005 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	ug/L	<0.44	50	50	48.7	50.3	97	101	70-136	3	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	52.7	53.1	105	106	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	52.6	53.8	105	108	70-146	2	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	51.6	53.2	103	106	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	52.2	52.2	104	104	46-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	48.1	48.5	96	97	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	53.3	52.4	107	105	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	49.5	50.4	99	101	70-146	2	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	52.7	54.4	105	109	70-136	3	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	50.8	50.8	102	102	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	48.6	48.4	97	97	70-130	0	20	
Benzene	ug/L	<0.50	50	50	52.8	54.4	106	109	70-137	3	20	
Bromodichloromethane	ug/L	<0.45	50	50	51.5	52.7	103	105	70-133	2	20	
Bromoform	ug/L	<0.33	50	50	46.3	47.7	93	95	57-130	3	20	
Bromomethane	ug/L	<0.43	50	50	46.6	48.3	93	97	41-148	4	20	
Carbon disulfide	ug/L	<0.71	50	50	55.2	56.8	110	114	50-152	3	31	
Carbon tetrachloride	ug/L	<0.37	50	50	47.3	48.9	95	98	70-154	3	20	
Chlorobenzene	ug/L	<0.36	50	50	52.3	53.1	105	106	70-130	1	20	
Chloroethane	ug/L	<0.44	50	50	53.1	54.5	106	109	70-140	3	20	
Chloroform	ug/L	<0.69	50	50	50.6	51.9	101	104	70-130	3	20	
Chloromethane	ug/L	<0.39	50	50	44.8	44.6	90	89	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	50.3	51.2	101	102	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	47.1	47.5	94	95	70-136	1	20	
Dibromochloromethane	ug/L	<1.9	50	50	47.7	48.3	95	97	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	33.7	34.8	67	70	10-157	3	20	
Ethylbenzene	ug/L	<0.50	50	50	52.7	53.4	105	107	70-130	1	20	
m&p-Xylene	ug/L	<0.82	100	100	108	109	108	109	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	30.7	31.4	61	63	59-141	2	20	
Methylene Chloride	ug/L	<0.36	50	50	50.4	51.7	101	103	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	52.9	54.3	106	109	70-130	3	20	
Styrene	ug/L	<0.35	50	50	47.7	48.6	95	97	35-164	2	20	
Tetrachloroethene	ug/L	<0.47	50	50	47.5	47.6	95	95	70-130	0	20	
Toluene	ug/L	<0.44	50	50	51.2	52.5	102	105	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	51.5	53.1	103	106	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.30	50	50	46.0	46.5	92	93	55-137	1	20	
Trichloroethene	ug/L	<0.36	50	50	51.8	52.0	104	104	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	46.5	48.4	93	97	50-150	4	20	
Vinyl chloride	ug/L	<0.18	50	50	50.1	50.9	100	102	59-144	2	20	
4-Bromofluorobenzene (S)	%						100	102	43-137			

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:											
			869020				869021				
Parameter	Units	4085865005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Dibromofluoromethane (S)	%						99	101	70-130		
Toluene-d8 (S)	%						98	98	55-137		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: MSV/21624 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004, 4086035005

METHOD BLANK: 869524 Matrix: Water  
Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004, 4086035005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	10/07/13 16:55	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	10/07/13 16:55	
1,1-Dichloroethane	ug/L	<0.28	1.0	10/07/13 16:55	
1,1-Dichloroethene	ug/L	<0.43	1.0	10/07/13 16:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	10/07/13 16:55	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	10/07/13 16:55	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	10/07/13 16:55	
1,2-Dichloroethane	ug/L	<0.48	1.0	10/07/13 16:55	
1,2-Dichloropropane	ug/L	<0.50	1.0	10/07/13 16:55	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	10/07/13 16:55	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	10/07/13 16:55	
2-Butanone (MEK)	ug/L	<2.7	20.0	10/07/13 16:55	
Acetone	ug/L	<2.6	20.0	10/07/13 16:55	
Benzene	ug/L	<0.50	1.0	10/07/13 16:55	
Bromodichloromethane	ug/L	<0.45	1.0	10/07/13 16:55	
Bromoform	ug/L	<0.33	1.0	10/07/13 16:55	
Bromomethane	ug/L	<0.43	5.0	10/07/13 16:55	
Carbon disulfide	ug/L	<0.71	5.0	10/07/13 16:55	
Carbon tetrachloride	ug/L	<0.37	1.0	10/07/13 16:55	
Chlorobenzene	ug/L	<0.36	1.0	10/07/13 16:55	
Chloroethane	ug/L	<0.44	1.0	10/07/13 16:55	
Chloroform	ug/L	<0.69	5.0	10/07/13 16:55	
Chloromethane	ug/L	<0.39	1.0	10/07/13 16:55	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	10/07/13 16:55	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	10/07/13 16:55	
Dibromochloromethane	ug/L	<1.9	5.0	10/07/13 16:55	
Dibromomethane	ug/L	<0.48	1.0	10/07/13 16:55	
Dichlorodifluoromethane	ug/L	<0.40	1.0	10/07/13 16:55	
Ethylbenzene	ug/L	<0.50	1.0	10/07/13 16:55	
m&p-Xylene	ug/L	<0.82	2.0	10/07/13 16:55	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	10/07/13 16:55	
Methylene Chloride	ug/L	<0.36	1.0	10/07/13 16:55	
Naphthalene	ug/L	<2.5	5.0	10/07/13 16:55	
o-Xylene	ug/L	<0.50	1.0	10/07/13 16:55	
Styrene	ug/L	<0.35	1.0	10/07/13 16:55	
Tetrachloroethane	ug/L	<0.47	1.0	10/07/13 16:55	
Tetrahydrofuran	ug/L	<1.5	5.0	10/07/13 16:55	
Toluene	ug/L	<0.44	1.0	10/07/13 16:55	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	10/07/13 16:55	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	10/07/13 16:55	
Trichloroethene	ug/L	<0.36	1.0	10/07/13 16:55	
Trichlorofluoromethane	ug/L	<0.48	1.0	10/07/13 16:55	
Vinyl chloride	ug/L	<0.18	1.0	10/07/13 16:55	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

METHOD BLANK: 869524

Matrix: Water

Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004, 4086035005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	86	43-137	10/07/13 16:55	
Dibromofluoromethane (S)	%	99	70-130	10/07/13 16:55	
Toluene-d8 (S)	%	101	55-137	10/07/13 16:55	

LABORATORY CONTROL SAMPLE & LCSD: 869525

869526

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.9	54.1	108	108	70-136	0	20	
1,1,2-Trichloroethane	ug/L	50	54.0	52.3	108	105	70-130	3	20	
1,1-Dichloroethane	ug/L	50	56.9	55.3	114	111	70-146	3	20	
1,1-Dichloroethene	ug/L	50	49.0	49.6	98	99	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	43.0	92	86	46-150	6	20	
1,2-Dibromoethane (EDB)	ug/L	50	54.1	51.2	108	102	70-130	6	20	
1,2-Dichlorobenzene	ug/L	50	52.7	52.6	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	50	55.9	54.4	112	109	70-144	3	20	
1,2-Dichloropropane	ug/L	50	60.1	58.4	120	117	70-136	3	20	
1,3-Dichlorobenzene	ug/L	50	50.9	51.2	102	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	52.7	52.1	105	104	70-130	1	20	
Benzene	ug/L	50	56.5	55.9	113	112	70-137	1	20	
Bromodichloromethane	ug/L	50	53.3	51.2	107	102	70-133	4	20	
Bromoform	ug/L	50	46.6	45.1	93	90	59-130	3	20	
Bromomethane	ug/L	50	31.3	35.4	63	71	41-148	12	20	
Carbon disulfide	ug/L	50	50.8	50.8	102	102	70-130	0	20	
Carbon tetrachloride	ug/L	50	54.4	54.7	109	109	70-154	1	20	
Chlorobenzene	ug/L	50	57.1	55.8	114	112	70-130	2	20	
Chloroethane	ug/L	50	48.8	49.1	98	98	70-139	0	20	
Chloroform	ug/L	50	53.7	52.3	107	105	70-130	3	20	
Chloromethane	ug/L	50	45.7	48.1	91	96	45-154	5	20	
cis-1,2-Dichloroethene	ug/L	50	50.8	51.3	102	103	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	47.1	46.5	94	93	70-136	1	20	
Dibromochloromethane	ug/L	50	50.4	48.6	101	97	70-130	4	20	
Dichlorodifluoromethane	ug/L	50	56.8	56.1	114	112	20-157	1	20	
Ethylbenzene	ug/L	50	59.2	57.5	118	115	70-130	3	20	
m&p-Xylene	ug/L	100	118	116	118	116	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	49.6	46.9	99	94	59-141	6	20	
Methylene Chloride	ug/L	50	48.2	47.7	96	95	70-130	1	20	
o-Xylene	ug/L	50	58.9	58.3	118	117	70-130	1	20	
Styrene	ug/L	50	53.1	51.0	106	102	70-130	4	20	
Tetrachloroethene	ug/L	50	50.7	49.9	101	100	70-130	2	20	
Toluene	ug/L	50	57.5	56.6	115	113	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	55.0	54.3	110	109	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	47.1	45.9	94	92	55-135	3	20	
Trichloroethene	ug/L	50	59.2	58.0	118	116	70-130	2	20	
Trichlorofluoromethane	ug/L	50	49.1	49.4	98	99	50-150	1	20	
Vinyl chloride	ug/L	50	47.0	48.0	94	96	61-143	2	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

LABORATORY CONTROL SAMPLE & LCSD:		869525	869526							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%				102	101	43-137			
Dibromofluoromethane (S)	%				101	103	70-130			
Toluene-d8 (S)	%				102	100	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		869997	869998										
Parameter	Units	4086034001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.44	50	50	53.5	52.8	107	106	70-136	1	20		
1,1,2-Trichloroethane	ug/L	<0.39	50	50	51.2	51.8	102	104	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.28	50	50	55.7	55.9	111	112	70-146	0	20		
1,1-Dichloroethene	ug/L	<0.43	50	50	48.8	48.0	98	96	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	43.3	43.6	87	87	46-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	53.1	52.5	106	105	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.44	50	50	52.1	51.7	104	103	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.48	50	50	54.0	53.2	108	106	70-146	1	20		
1,2-Dichloropropane	ug/L	<0.50	50	50	56.5	57.1	113	114	70-136	1	20		
1,3-Dichlorobenzene	ug/L	<0.45	50	50	49.4	49.8	99	100	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.43	50	50	51.8	51.9	104	104	70-130	0	20		
Benzene	ug/L	<0.50	50	50	55.3	55.4	111	111	70-137	0	20		
Bromodichloromethane	ug/L	<0.45	50	50	51.3	49.6	103	99	70-133	3	20		
Bromoform	ug/L	<0.33	50	50	44.9	46.5	90	93	57-130	4	20		
Bromomethane	ug/L	<0.43	50	50	38.9	38.6	78	77	41-148	1	20		
Carbon disulfide	ug/L	<0.71	50	50	50.1	51.4	100	103	50-152	2	31		
Carbon tetrachloride	ug/L	<0.37	50	50	53.8	52.6	108	105	70-154	2	20		
Chlorobenzene	ug/L	<0.36	50	50	54.9	55.9	110	112	70-130	2	20		
Chloroethane	ug/L	<0.44	50	50	48.9	50.3	98	101	70-140	3	20		
Chloroform	ug/L	<0.69	50	50	52.1	52.4	104	105	70-130	1	20		
Chloromethane	ug/L	<0.39	50	50	48.0	50.4	96	101	45-154	5	20		
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	49.7	49.7	99	99	70-130	0	20		
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	46.1	45.6	92	91	70-136	1	20		
Dibromochloromethane	ug/L	<1.9	50	50	50.0	47.9	100	96	70-130	4	20		
Dichlorodifluoromethane	ug/L	<0.40	50	50	56.3	55.9	113	112	10-157	1	20		
Ethylbenzene	ug/L	<0.50	50	50	56.6	57.9	113	116	70-130	2	20		
m&p-Xylene	ug/L	<0.82	100	100	111	115	111	115	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<0.49	50	50	47.3	46.8	95	94	59-141	1	20		
Methylene Chloride	ug/L	<0.36	50	50	47.1	48.1	94	96	70-130	2	20		
o-Xylene	ug/L	<0.50	50	50	55.3	58.5	111	117	70-130	6	20		
Styrene	ug/L	<0.35	50	50	49.3	50.5	99	101	35-164	2	20		
Tetrachloroethene	ug/L	<0.47	50	50	51.8	49.8	104	100	70-130	4	20		
Toluene	ug/L	<0.44	50	50	55.3	55.7	111	111	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	53.9	52.8	108	106	70-130	2	20		
trans-1,3-Dichloropropene	ug/L	<0.30	50	50	45.5	46.1	91	92	55-137	1	20		
Trichloroethene	ug/L	<0.36	50	50	56.9	57.6	114	115	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.48	50	50	49.4	49.0	99	98	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	48.4	48.4	97	97	59-144	0	20		
4-Bromofluorobenzene (S)	%						101	101	43-137				

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 869997 869998											
Parameter	Units	4086034001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.							
Dibromofluoromethane (S)	%						104	101	70-130		
Toluene-d8 (S)	%						100	101	55-137		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: MSV/21669 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 4086117001, 4086117002

METHOD BLANK: 871326 Matrix: Water

Associated Lab Samples: 4086117001, 4086117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	10/09/13 06:48	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	10/09/13 06:48	
1,1-Dichloroethane	ug/L	<0.28	1.0	10/09/13 06:48	
1,1-Dichloroethene	ug/L	<0.43	1.0	10/09/13 06:48	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	10/09/13 06:48	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	10/09/13 06:48	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	10/09/13 06:48	
1,2-Dichloroethane	ug/L	<0.48	1.0	10/09/13 06:48	
1,2-Dichloropropane	ug/L	<0.50	1.0	10/09/13 06:48	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	10/09/13 06:48	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	10/09/13 06:48	
2-Butanone (MEK)	ug/L	<2.7	20.0	10/09/13 06:48	
Acetone	ug/L	<2.6	20.0	10/09/13 06:48	
Benzene	ug/L	<0.50	1.0	10/09/13 06:48	
Bromodichloromethane	ug/L	<0.45	1.0	10/09/13 06:48	
Bromoform	ug/L	<0.33	1.0	10/09/13 06:48	
Bromomethane	ug/L	<0.43	5.0	10/09/13 06:48	
Carbon disulfide	ug/L	<0.71	5.0	10/09/13 06:48	
Carbon tetrachloride	ug/L	<0.37	1.0	10/09/13 06:48	
Chlorobenzene	ug/L	<0.36	1.0	10/09/13 06:48	
Chloroethane	ug/L	<0.44	1.0	10/09/13 06:48	
Chloroform	ug/L	<0.69	5.0	10/09/13 06:48	
Chloromethane	ug/L	<0.39	1.0	10/09/13 06:48	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	10/09/13 06:48	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	10/09/13 06:48	
Dibromochloromethane	ug/L	<1.9	5.0	10/09/13 06:48	
Dibromomethane	ug/L	<0.48	1.0	10/09/13 06:48	
Dichlorodifluoromethane	ug/L	<0.40	1.0	10/09/13 06:48	
Ethylbenzene	ug/L	<0.50	1.0	10/09/13 06:48	
m&p-Xylene	ug/L	<0.82	2.0	10/09/13 06:48	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	10/09/13 06:48	
Methylene Chloride	ug/L	<0.36	1.0	10/09/13 06:48	
Naphthalene	ug/L	<2.5	5.0	10/09/13 06:48	
o-Xylene	ug/L	<0.50	1.0	10/09/13 06:48	
Styrene	ug/L	<0.35	1.0	10/09/13 06:48	
Tetrachloroethane	ug/L	<0.47	1.0	10/09/13 06:48	
Tetrahydrofuran	ug/L	<1.5	5.0	10/09/13 06:48	
Toluene	ug/L	<0.44	1.0	10/09/13 06:48	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	10/09/13 06:48	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	10/09/13 06:48	
Trichloroethene	ug/L	<0.36	1.0	10/09/13 06:48	
Trichlorofluoromethane	ug/L	<0.48	1.0	10/09/13 06:48	
Vinyl chloride	ug/L	<0.18	1.0	10/09/13 06:48	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

METHOD BLANK: 871326

Matrix: Water

Associated Lab Samples: 4086117001, 4086117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	89	43-137	10/09/13 06:48	
Dibromofluoromethane (S)	%	99	70-130	10/09/13 06:48	
Toluene-d8 (S)	%	98	55-137	10/09/13 06:48	

LABORATORY CONTROL SAMPLE & LCSD: 871327

871328

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.7	56.8	113	114	70-136	0	20	
1,1,2-Trichloroethane	ug/L	50	52.7	54.8	105	110	70-130	4	20	
1,1-Dichloroethane	ug/L	50	59.2	59.7	118	119	70-146	1	20	
1,1-Dichloroethene	ug/L	50	52.4	52.4	105	105	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	48.6	95	97	46-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	53.5	106	107	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	52.2	52.0	104	104	70-130	0	20	
1,2-Dichloroethane	ug/L	50	57.4	56.9	115	114	70-144	1	20	
1,2-Dichloropropane	ug/L	50	60.2	60.3	120	121	70-136	0	20	
1,3-Dichlorobenzene	ug/L	50	52.0	50.6	104	101	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	53.1	52.6	106	105	70-130	1	20	
Benzene	ug/L	50	57.4	57.3	115	115	70-137	0	20	
Bromodichloromethane	ug/L	50	53.4	53.1	107	106	70-133	1	20	
Bromoform	ug/L	50	45.8	45.6	92	91	59-130	0	20	
Bromomethane	ug/L	50	39.0	41.2	78	82	41-148	6	20	
Carbon disulfide	ug/L	50	54.2	54.4	108	109	70-130	0	20	
Carbon tetrachloride	ug/L	50	56.4	57.0	113	114	70-154	1	20	
Chlorobenzene	ug/L	50	56.3	55.7	113	111	70-130	1	20	
Chloroethane	ug/L	50	52.6	52.5	105	105	70-139	0	20	
Chloroform	ug/L	50	54.6	55.4	109	111	70-130	2	20	
Chloromethane	ug/L	50	50.9	52.0	102	104	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	50	52.8	52.9	106	106	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	50	49.4	49.7	99	99	70-136	1	20	
Dibromochloromethane	ug/L	50	49.8	50.4	100	101	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	57.8	58.1	116	116	20-157	0	20	
Ethylbenzene	ug/L	50	58.5	58.6	117	117	70-130	0	20	
m&p-Xylene	ug/L	100	118	118	118	118	70-130	0	20	
Methyl-tert-butyl ether	ug/L	50	50.4	51.5	101	103	59-141	2	20	
Methylene Chloride	ug/L	50	50.3	50.8	101	102	70-130	1	20	
o-Xylene	ug/L	50	59.6	57.9	119	116	70-130	3	20	
Styrene	ug/L	50	53.0	53.2	106	106	70-130	0	20	
Tetrachloroethene	ug/L	50	52.6	51.8	105	104	70-130	2	20	
Toluene	ug/L	50	57.8	57.3	116	115	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	56.2	56.4	112	113	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	50	47.4	48.2	95	96	55-135	2	20	
Trichloroethene	ug/L	50	59.9	60.4	120	121	70-130	1	20	
Trichlorofluoromethane	ug/L	50	51.9	53.1	104	106	50-150	2	20	
Vinyl chloride	ug/L	50	49.2	50.5	98	101	61-143	3	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

LABORATORY CONTROL SAMPLE & LCSD:		871327		871328							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
4-Bromofluorobenzene (S)	%				104	103	43-137				
Dibromofluoromethane (S)	%				105	105	70-130				
Toluene-d8 (S)	%				100	101	55-137				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		871562		871563									
Parameter	Units	4086117001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD		
1,1,1-Trichloroethane	ug/L	<0.44	50	50	51.3	54.7	103	109	70-136	6	20		
1,1,2-Trichloroethane	ug/L	<0.39	50	50	49.2	52.1	98	104	70-130	6	20		
1,1-Dichloroethane	ug/L	<0.28	50	50	54.4	56.8	109	114	70-146	4	20		
1,1-Dichloroethene	ug/L	<0.43	50	50	47.7	50.9	95	102	70-130	7	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	42.8	44.4	86	89	46-150	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	49.5	52.7	99	105	70-130	6	20		
1,2-Dichlorobenzene	ug/L	<0.44	50	50	49.5	51.3	99	103	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.48	50	50	52.4	54.4	105	109	70-146	4	20		
1,2-Dichloropropane	ug/L	<0.50	50	50	54.5	57.7	109	115	70-136	6	20		
1,3-Dichlorobenzene	ug/L	<0.45	50	50	47.2	49.9	94	100	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<0.43	50	50	49.4	51.7	99	103	70-130	4	20		
Benzene	ug/L	<0.50	50	50	52.2	55.3	104	111	70-137	6	20		
Bromodichloromethane	ug/L	<0.45	50	50	48.6	52.3	97	105	70-133	7	20		
Bromoform	ug/L	<0.33	50	50	43.0	45.9	86	92	57-130	7	20		
Bromomethane	ug/L	<0.43	50	50	38.4	40.3	77	81	41-148	5	20		
Carbon disulfide	ug/L	<0.71	50	50	49.5	52.2	99	104	50-152	5	31		
Carbon tetrachloride	ug/L	<0.37	50	50	51.9	55.6	104	111	70-154	7	20		
Chlorobenzene	ug/L	<0.36	50	50	52.1	54.1	104	108	70-130	4	20		
Chloroethane	ug/L	<0.44	50	50	47.0	50.2	94	100	70-140	7	20		
Chloroform	ug/L	<0.69	50	50	49.8	53.1	100	106	70-130	6	20		
Chloromethane	ug/L	<0.39	50	50	47.7	51.5	95	103	45-154	8	20		
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	47.5	51.4	95	103	70-130	8	20		
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	45.1	47.4	90	95	70-136	5	20		
Dibromochloromethane	ug/L	<1.9	50	50	46.6	49.2	93	98	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.40	50	50	53.5	55.1	107	110	10-157	3	20		
Ethylbenzene	ug/L	<0.50	50	50	53.1	56.7	106	113	70-130	7	20		
m&p-Xylene	ug/L	<0.82	100	100	107	112	107	112	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<0.49	50	50	47.5	49.8	95	100	59-141	5	20		
Methylene Chloride	ug/L	<0.36	50	50	47.2	48.8	94	98	70-130	3	20		
o-Xylene	ug/L	<0.50	50	50	53.3	56.3	107	113	70-130	5	20		
Styrene	ug/L	<0.35	50	50	47.9	50.6	96	101	35-164	6	20		
Tetrachloroethene	ug/L	<0.47	50	50	46.6	50.3	93	101	70-130	8	20		
Toluene	ug/L	<0.44	50	50	52.3	55.5	105	111	70-130	6	20		
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	51.3	54.7	103	109	70-130	6	20		
trans-1,3-Dichloropropene	ug/L	<0.30	50	50	44.5	47.0	89	94	55-137	5	20		
Trichloroethene	ug/L	<0.36	50	50	55.1	58.1	110	116	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.48	50	50	48.1	51.3	96	103	50-150	6	20		
Vinyl chloride	ug/L	<0.18	50	50	46.0	48.7	92	97	59-144	6	20		
4-Bromofluorobenzene (S)	%						102	101	43-137				

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871562		871563		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		4086117001 Result	MS Spike Conc.	MSD Spike Conc.									
Dibromofluoromethane (S)	%							101	104	70-130			
Toluene-d8 (S)	%							99	100	55-137			

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch:	WETA/19919	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
Associated Lab Samples:	4085808001		

METHOD BLANK: 870823 Matrix: Water

Associated Lab Samples: 4085808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/08/13 09:58	

LABORATORY CONTROL SAMPLE: 870824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870825 870826

Parameter	Units	4085602001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	2.7J	20	20	19.8	20.0	85	87	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870827 870828

Parameter	Units	4085806001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	616	400	400	1020	1030	102	104	90-110	1	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: WETA/19976

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions,Dissolved

Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

METHOD BLANK: 872323

Matrix: Water

Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/10/13 10:49	

LABORATORY CONTROL SAMPLE: 872324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872325

872326

Parameter	Units	4086034001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	1030	1000	1000	2070	2050	103	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872327

872328

Parameter	Units	4086035001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	30.6	20	20	52.1	52.3	107	108	90-110	0	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: WETA/19979 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
 Associated Lab Samples: 4086117001, 4086117002

METHOD BLANK: 872649 Matrix: Water

Associated Lab Samples: 4086117001, 4086117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/10/13 14:39	

LABORATORY CONTROL SAMPLE: 872650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872651 872652

Parameter	Units	4086114001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chloride	mg/L	36.5	40	40	40	78.0	77.9	104	104	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872653 872654

Parameter	Units	4086115001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chloride	mg/L	18.8	20	20	20	39.4	39.7	103	105	90-110	1	20

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13  
Pace Project No.: 4085808

QC Batch: WETA/19924 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 4085808001

METHOD BLANK: 871272 Matrix: Water

Associated Lab Samples: 4085808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/09/13 10:46	

LABORATORY CONTROL SAMPLE: 871273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	93.2	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871274 871275

Parameter	Units	4085806004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	636	500	500	1180	1180	108	108	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871276 871277

Parameter	Units	4085815009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	474	500	500	1000	1000	105	105	90-110	0	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: WETA/19948

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

METHOD BLANK: 871672

Matrix: Water

Associated Lab Samples: 4086035001, 4086035002, 4086035003, 4086035004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/09/13 11:26	

LABORATORY CONTROL SAMPLE: 871673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	95.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871674 871675

Parameter	Units	4086037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	586	500	500	1150	1080	112	100	90-110	6	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871676 871677

Parameter	Units	4086114001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	337	500	500	887	889	110	110	90-110	0	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

QC Batch: WETA/20114

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 4086117001, 4086117002

METHOD BLANK: 877498

Matrix: Water

Associated Lab Samples: 4086117001, 4086117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/18/13 11:35	

LABORATORY CONTROL SAMPLE: 877499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	108	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877500

877501

Parameter	Units	4086114012		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	524	500	500	500	1060	1050	107	105	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 877502

877503

Parameter	Units	4086452003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	107	500	500	500	649	617	108	102	90-110	5	20

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: LGRL INVESTIGATION WELLS 10/13  
Pace Project No.: 4085808

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4085808001	MW-1B	EPA 3010	MPRP/9256	EPA 6020	ICPM/4167
4086035001	P-423D	EPA 3010	MPRP/9365	EPA 6020	ICPM/4215
4086035002	P-424D	EPA 3010	MPRP/9365	EPA 6020	ICPM/4215
4086035003	P-424SS	EPA 3010	MPRP/9365	EPA 6020	ICPM/4215
4086035004	P-422B	EPA 3010	MPRP/9365	EPA 6020	ICPM/4215
4086117001	P-401D	EPA 3010	MPRP/9307	EPA 6020	ICPM/4187
4086117002	P-402E	EPA 3010	MPRP/9307	EPA 6020	ICPM/4187
4085808001	MW-1B	EPA 8260	MSV/21607		
4086035001	P-423D	EPA 8260	MSV/21624		
4086035002	P-424D	EPA 8260	MSV/21624		
4086035003	P-424SS	EPA 8260	MSV/21624		
4086035004	P-422B	EPA 8260	MSV/21624		
4086035005	TRIP BLANK	EPA 8260	MSV/21624		
4086117001	P-401D	EPA 8260	MSV/21669		
4086117002	P-402E	EPA 8260	MSV/21669		
4085808001	MW-1B		PM/1063		
4086035001	P-423D		PM/1063		
4086035002	P-424D		PM/1063		
4086035003	P-424SS		PM/1063		
4086035004	P-422B		PM/1063		
4086117001	P-401D		PM/1063		
4086117002	P-402E		PM/1063		
4085808009	MW-1B		PM/1063		
4085808010	P-401D		PM/1063		
4085808011	P-402E		PM/1063		
4085808012	P-422B		PM/1063		
4085808013	P-423D		PM/1063		
4085808014	P-424D		PM/1063		
4085808015	P-424SS		PM/1063		
4085808001	MW-1B	EPA 300.0	WETA/19919		
4086035001	P-423D	EPA 300.0	WETA/19976		
4086035002	P-424D	EPA 300.0	WETA/19976		
4086035003	P-424SS	EPA 300.0	WETA/19976		
4086035004	P-422B	EPA 300.0	WETA/19976		
4086117001	P-401D	EPA 300.0	WETA/19979		
4086117002	P-402E	EPA 300.0	WETA/19979		
4085808001	MW-1B	EPA 310.2	WETA/19924		
4086035001	P-423D	EPA 310.2	WETA/19948		
4086035002	P-424D	EPA 310.2	WETA/19948		
4086035003	P-424SS	EPA 310.2	WETA/19948		
4086035004	P-422B	EPA 310.2	WETA/19948		
4086117001	P-401D	EPA 310.2	WETA/20114		
4086117002	P-402E	EPA 310.2	WETA/20114		

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS 10/13

Pace Project No.: 4085808

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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## REPORT OF LABORATORY ANALYSIS

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4085808  
Page: 1 of 1

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
ADS Glacier Ridge		Report To: Same		Attention: Same	
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGR Investigation Wells		Pace Quote Reference:	
Phone:		Project Number:		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Project Number: 3707		Pace Profile #:	

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WASTE WATER PRODUCT SOLID WIPE AIR OTHER TISSUE	CODE DW WW P SL WP AR OT TS	MATRIX CODE	SAMPLE TYPE	G+GRAB C-COMP	COLLECTED		# OF CONTAINERS	PRESERVATIVES Nitric HCL Unpreserved	Requested Analytes	Pace Project Number Lab I.D.
							COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME				
1	MW-1B 2-280ml AP 3-40ml B				MTG		11/13/13 12:30	12/13 12:30	5		9260 MP 507 VOCs dis. chloride, alkalinity dis. 6020 - hard	001
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Tim Curry	12/13/13	16:00	M.V.	10/21/13	09:10	Received on Y/N Ice Y/N Custody Y/N Sealed Cooler Y/N Samples Intact Y/N
Donna	12/13/13	09:10				

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Cory Odwazny  
SIGNATURE OF SAMPLER: 

DATE SIGNED (MM/DD/YYYY): 10/01/13



**Sample Condition Upon Receipt**

Client Name: ADS Project # 4085808

Courier:  Fed/Ex  UPS  USPS  Client  Commercial  Pace Other Dunham  
Tracking #: 611087

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
Thermometer Used SR-25 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun  
Cooler Temperature Uncorr: 1,1,2.5/Corr: 1,1,2.5 Biological Tissue is Frozen:  yes  no  
Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 10/2/13  
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: <u>W</u> )	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>MV</u> Lab Std #ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments -   
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: Cooler w/ temp of 2.5 had a temp blank present, other 2 coolers did not. 10/2/13 MV

Project Manager Review: CW Date: 10/2/13

# 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:  
 ADS Glacier Ridge  
 N7296 Hwy V  
 Horicon, WI 53032  
 Email To: Tim Curry - ADS  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B** Required Project Information:  
 Report To: Same  
 Copy To: Frank Perugini - ESC, Matt Bull - SCS  
 Eng. Sherren Clark - SCS Eng  
 Address: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: LGR1 Investigation Wells  
 Project Number: \_\_\_\_\_  
 Invoice Information:  
 Attention: Same  
 Company Name: \_\_\_\_\_  
 Face Quote Reference: \_\_\_\_\_  
 Face Project Manager: Cindy Varga  
 Pace Profile #: 3707

**Section C** Regulatory Agency  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 SITE  GA  IL  IN  MI  NC  
 LOCATION  OH  SC  WI  OTHER \_\_\_\_\_

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WASTE WATER PRODUCT SOLID WIRE AIR OTHER TISSUE	CODE DW WW P S WP AR OT TS	COLLECTED		# OF CONTAINERS	PRESERVATIVES NITR HCL UNPRESERVED	Requested Analyte	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project Number Lab ID						
				MATRIX CODE	SAMPLE TYPE							G+GRAB C=COMP	COMPOSITE START DATE	COMPOSITE END/CRAB DATE	TIME	DATE	TIME
1	001	P-4245D	WW	6	-	10/3	120	119	5	1	3	1	X	X	X	2-25DNUP	3-46W
2	002	P-4245D	WW	6	-	10/3	120	119	5	1	3	1	X	X	X	2-25DNUP	3-46W
3	003	P-4245S	WW	6	-	10/3	120	119	5	1	3	1	X	X	X	2-25DNUP	3-46W
4	004	P-4245B	WW	6	-	10/3	120	119	5	1	3	1	X	X	X	2-25DNUP	3-46W
5	005	TAP BLANK	WW	6	-	10/3	120	119	5	1	3	1	X	X	X	2-25DNUP	3-46W
6																	
7																	
8																	
9																	
10																	
11																	
12																	

**Additional Comments:**  
 Relinquished by: [Signature] M.V. e  
 Date: 10/13/09  
 Time: 0900  
 Accepted by: [Signature] M.V. e  
 Date: 10/13/09  
 Time: 0900

**RELINQUISHED BY / AFFILIATION** DATE TIME  
**ACCEPTED BY / AFFILIATION** DATE TIME

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: [Signature]  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM / ): 10/13/09

**Temp in °C** Received on Ice Custody Sealed Cooler Samples Intact  
 Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N



**Sample Condition Upon Receipt**

Client Name: ADS Project # 4086035

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other Donham  
Tracking #: 612883

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
Thermometer Used SR-7 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun  
Cooler Temperature Uncorr: 2,3,2 / Corr: 2,3,2 Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no  
Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:  
Date: 10/4/13  
Initials: MV

		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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>001 ID on coc originally wrote as "mw" and crossed off to write "P" sample label placed on sample says "P" hand wrote "mw" on cap. 10/4/13</i>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed   Lab Std #ID of preservative   Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <i>Added to COC by P.M. 10/4/13 MV</i>
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): <u>313</u>		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: to for col to P-4230 per chart cr 10/9/13

Project Manager Review: Cey Date: 10/4/13





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

408617

**Section A** Required Client Information: ADS Glacier Ridge  
 N7296 Hwy V  
 Horicon, WI 53032  
 Email To: Tim Curry - ADS  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B** Required Project Information: Report To: Same  
 Copy To: Frank Perugini - ESC, Mani Bull - SCS  
 Eng. Sheiren Clark - SCS Eng  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: LGRL Investigation Wells  
 Project Number: \_\_\_\_\_

**Section C** Invoice Information: Attention: Same  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: Cindy Variga  
 Pace Profile #: 3707

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

**SITE**  GA  IL  IN  MI  NC  
**LOCATION**  OH  SC  WI  OTHER \_\_\_\_\_

#	ITEM	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / , ' ) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WASTE WATER PRODUCT SOLID/SOIL WIFE AIR OTHER TISSUE	CODE DW WW P SL PR VF AR OT TS	COLLECTED			# OF CONTAINERS	PRESERVATIVES HCL NITIC Unpreserved	Requested Analyte	Pace Project Number Lab I.D.
					MATRIX CODE	SAMPLE TYPE	G+GRAB C-COMP				
1		P-401D			GW6		10/13/10	10/13/10	5		
2		P-402E			GW6		10/13/10	10/13/10	5		
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i> Dunham	10/13/10	0737	<i>[Signature]</i> Mangina	10/13/10	0737	Received on Ice Y/N Custody Sealed Y/N Samples Intact Y/N

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *[Signature]*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE: 10/13/10



**Sample Condition Upon Receipt**

Client Name: ADS Glacier Ridge Project # 4056117

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other Dunham

Tracking #: 613694

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: PO /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:  
Date: 10/5/13  
Initials: mt

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> Coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>mt</u> Lab Std #ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 10/7/13 Page 56 of 56

Landfill Name: LGRL INVESTIGATION WELLS  
 License Number: 01118  
 Report Period: 131001

**Pace Analytical Services, Inc.**

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
10/3/2013		77093	124	ug/L	ES		86035002	P-424D	01	cis-1,2-Dichloroethene	7	70
10/3/2013		39180	3.2	ug/L	PAL		86035002	P-424D	01	Trichloroethene	0.5	5
10/3/2013		39175	10.1	ug/L	ES		86035002	P-424D	01	Vinyl chloride	0.02	0.2
10/4/2013	222	77093	301	ug/L	ES		86117002	P-402E	01	cis-1,2-Dichloroethene	7	70
10/4/2013	222	34546	20.5	ug/L	PAL		86117002	P-402E	01	trans-1,2-Dichloroethene	20	100
10/4/2013	222	39180	8.3	ug/L	ES		86117002	P-402E	01	Trichloroethene	0.5	5
10/4/2013	222	39175	25.3	ug/L	ES		86117002	P-402E	01	Vinyl chloride	0.02	0.2
10/3/2013	228	77093	59.3	ug/L	PAL		86035001	P-423D	01	cis-1,2-Dichloroethene	7	70
10/3/2013	228	39180	J 0.74	ug/L	PAL		86035001	P-423D	01	Trichloroethene	0.5	5
10/3/2013	228	39175	1.1	ug/L	ES		86035001	P-423D	01	Vinyl chloride	0.02	0.2
10/1/2013	232	39175	4.1	ug/L	ES		85808001	MW-1B	01	Vinyl chloride	0.02	0.2

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; \*-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.  
 MSI: 01-Sample; 02-Sample Duplicate; 03-Sample Triplicate; 09-Non-field Lab Replicate  
 < qualifier indicates reported value (RV) was not detected at or above the MDL.

May 20, 2014

General Manager  
Advanced Disposal Glacier Ridge Landfil LLC  
N7296 Hwy V  
Horicon, WI 53032

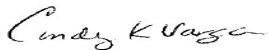
RE: Project: LGRL INVEST. WELLS APR 2014  
Pace Project No.: 4094426

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between April 09, 2014 and May 15, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Tim Curry, Advanced Disposal Services  
Frank Perugini, ESC (Environmental Sampling Corp)



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4094426001	P-423D	Water	04/07/14 13:15	04/09/14 07:37
4094426002	P-424D	Water	04/07/14 15:00	04/09/14 07:37
4094426003	P-424SS	Water	04/07/14 14:30	04/09/14 07:37
4094426004	P-422B	Water	04/07/14 11:15	04/09/14 07:37
4094426005	MW-1B	Water	04/07/14 10:50	04/09/14 07:37
4094426006	P-401D	Water	04/07/14 12:20	04/09/14 07:37
4094426007	P-402E	Water	04/07/14 11:45	04/09/14 07:37
4094426008	TRIP BLANK	Water	04/07/14 00:00	04/09/14 07:37
4094426009	P-423D	Water	04/01/14 00:00	05/15/14 18:34
4094426010	P-424D	Water	04/01/14 00:00	05/15/14 18:34
4094426011	P-424SS	Water	04/01/14 00:00	05/15/14 18:34
4094426012	P-422B	Water	04/01/14 00:00	05/15/14 18:34
4094426013	MW-1B	Water	04/01/14 00:00	05/15/14 18:34
4094426014	P-401D	Water	04/01/14 00:00	05/15/14 18:34
4094426015	P-402E	Water	04/01/14 00:00	05/15/14 18:34

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL INVEST. WELLS APR 2014  
Pace Project No.: 4094426

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4094426001	P-423D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426002	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426003	P-424SS	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426004	P-422B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426005	MW-1B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426006	P-401D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426007	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4094426008	TRIP BLANK	EPA 8260	LAP	46	PASI-G
4094426009	P-423D		CKV	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4094426010	P-424D		CKV	1	PASI-G
4094426011	P-424SS		CKV	1	PASI-G
4094426012	P-422B		CKV	1	PASI-G
4094426013	MW-1B		CKV	1	PASI-G
4094426014	P-401D		CKV	1	PASI-G
4094426015	P-402E		CKV	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Sample: P-423D Lab ID: 4094426001 Collected: 04/07/14 13:15 Received: 04/09/14 07:37 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>420000</b>	ug/L	2000	150	1		04/11/14 09:39		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:04	79-00-5	
1,1-Dichloroethane	<b>0.41J</b>	ug/L	1.0	0.16	1		04/10/14 15:04	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/10/14 15:04	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/10/14 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:04	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 15:04	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/10/14 15:04	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/10/14 15:04	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/10/14 15:04	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/10/14 15:04	74-83-9	
Carbon disulfide	<b>&lt;0.51</b>	ug/L	5.0	0.51	1		04/10/14 15:04	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	108-90-7	
Chloroethane	<b>1.5</b>	ug/L	1.0	0.37	1		04/10/14 15:04	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/10/14 15:04	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	74-87-3	
Dibromochloromethane	<b>&lt;0.32</b>	ug/L	1.0	0.32	1		04/10/14 15:04	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/10/14 15:04	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:04	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 15:04	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/10/14 15:04	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/10/14 15:04	91-20-3	
Styrene	<b>&lt;0.15</b>	ug/L	1.0	0.15	1		04/10/14 15:04	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/10/14 15:04	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	108-88-3	
Trichloroethene	<b>0.75J</b>	ug/L	1.0	0.33	1		04/10/14 15:04	79-01-6	
Trichlorofluoromethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 15:04	75-69-4	
Vinyl chloride	<b>1.0J</b>	ug/L	1.0	0.18	1		04/10/14 15:04	75-01-4	
cis-1,2-Dichloroethene	<b>53.6</b>	ug/L	1.0	0.26	1		04/10/14 15:04	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.15</b>	ug/L	1.0	0.15	1		04/10/14 15:04	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/10/14 15:04	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:04	95-47-6	
trans-1,2-Dichloroethene	<b>2.6</b>	ug/L	1.0	0.24	1		04/10/14 15:04	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-423D**      **Lab ID: 4094426001**      Collected: 04/07/14 13:15      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 15:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97 %		59-130		1		04/10/14 15:04	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/10/14 15:04	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		04/10/14 15:04	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.10	Std. Units			1		04/07/14 13:15		
Field Specific Conductance	851	umhos/cm			1		04/07/14 13:15		
Turbidity	N	NTU			1		04/07/14 13:15		
Apparent Color	N	no units			1		04/07/14 13:15		
Odor	N	no units			1		04/07/14 13:15		
Temperature, Water (C)	15.8	deg C			1		04/07/14 13:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	29.9	mg/L	4.0	2.0	1		04/10/14 11:51	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	366	mg/L	20.0	8.6	1		04/11/14 15:28		

**Sample: P-424D**      **Lab ID: 4094426002**      Collected: 04/07/14 15:00      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	427000	ug/L	2000	150	1		04/11/14 09:45		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 15:26	79-00-5	
1,1-Dichloroethane	0.98J	ug/L	1.0	0.16	1		04/10/14 15:26	75-34-3	
1,1-Dichloroethene	0.42J	ug/L	1.0	0.41	1		04/10/14 15:26	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/10/14 15:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/10/14 15:26	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/10/14 15:26	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/10/14 15:26	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/10/14 15:26	78-93-3	
Acetone	3.1J	ug/L	20.0	3.0	1		04/10/14 15:26	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	71-43-2	

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-424D**      **Lab ID: 4094426002**      Collected: 04/07/14 15:00      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/10/14 15:26	74-83-9	
Carbon disulfide	<0.51	ug/L	5.0	0.51	1		04/10/14 15:26	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	108-90-7	
Chloroethane	3.1	ug/L	1.0	0.37	1		04/10/14 15:26	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/10/14 15:26	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	74-87-3	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/10/14 15:26	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/10/14 15:26	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/10/14 15:26	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/10/14 15:26	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/10/14 15:26	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/10/14 15:26	91-20-3	
Styrene	<0.15	ug/L	1.0	0.15	1		04/10/14 15:26	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/10/14 15:26	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	108-88-3	
Trichloroethene	3.0	ug/L	1.0	0.33	1		04/10/14 15:26	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/10/14 15:26	75-69-4	
Vinyl chloride	7.6	ug/L	1.0	0.18	1		04/10/14 15:26	75-01-4	
cis-1,2-Dichloroethene	114	ug/L	1.0	0.26	1		04/10/14 15:26	156-59-2	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/10/14 15:26	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/14 15:26	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:26	95-47-6	
trans-1,2-Dichloroethene	4.0	ug/L	1.0	0.24	1		04/10/14 15:26	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 15:26	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	59-130		1		04/10/14 15:26	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/10/14 15:26	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/14 15:26	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.34	Std. Units			1		04/07/14 15:00		
Field Specific Conductance	819	umhos/cm			1		04/07/14 15:00		
Turbidity	N	NTU			1		04/07/14 15:00		
Apparent Color	N	no units			1		04/07/14 15:00		
Odor	N	no units			1		04/07/14 15:00		
Temperature, Water (C)	13.0	deg C			1		04/07/14 15:00		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	34.8	mg/L	4.0	2.0	1		04/10/14 12:32	16887-00-6	

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-424D**      **Lab ID: 4094426002**      Collected: 04/07/14 15:00      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>369</b>	mg/L	100	43.2	5		04/11/14 15:29		M0

**Sample: P-424SS**      **Lab ID: 4094426003**      Collected: 04/07/14 14:30      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>290000</b>	ug/L	2000	150	1		04/11/14 09:47		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	71-55-6	
1,1,2-Trichloroethane	< <b>0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:48	79-00-5	
1,1-Dichloroethane	< <b>0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:48	75-34-3	
1,1-Dichloroethene	< <b>0.41</b>	ug/L	1.0	0.41	1		04/10/14 15:48	75-35-4	
1,2-Dibromo-3-chloropropane	< <b>2.2</b>	ug/L	5.0	2.2	1		04/10/14 15:48	96-12-8	
1,2-Dibromoethane (EDB)	< <b>0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:48	106-93-4	
1,2-Dichlorobenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	95-50-1	
1,2-Dichloroethane	< <b>0.17</b>	ug/L	1.0	0.17	1		04/10/14 15:48	107-06-2	
1,2-Dichloropropane	< <b>0.23</b>	ug/L	1.0	0.23	1		04/10/14 15:48	78-87-5	
1,3-Dichlorobenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	541-73-1	
1,4-Dichlorobenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	106-46-7	
2-Butanone (MEK)	< <b>3.0</b>	ug/L	20.0	3.0	1		04/10/14 15:48	78-93-3	
Acetone	< <b>3.0</b>	ug/L	20.0	3.0	1		04/10/14 15:48	67-64-1	
Benzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	71-43-2	
Bromodichloromethane	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	75-27-4	
Bromoform	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	75-25-2	
Bromomethane	< <b>2.4</b>	ug/L	5.0	2.4	1		04/10/14 15:48	74-83-9	
Carbon disulfide	< <b>0.51</b>	ug/L	5.0	0.51	1		04/10/14 15:48	75-15-0	
Carbon tetrachloride	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	56-23-5	
Chlorobenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	108-90-7	
Chloroethane	< <b>0.37</b>	ug/L	1.0	0.37	1		04/10/14 15:48	75-00-3	
Chloroform	< <b>2.5</b>	ug/L	5.0	2.5	1		04/10/14 15:48	67-66-3	
Chloromethane	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	74-87-3	
Dibromochloromethane	< <b>0.32</b>	ug/L	1.0	0.32	1		04/10/14 15:48	124-48-1	
Dibromomethane	< <b>0.43</b>	ug/L	1.0	0.43	1		04/10/14 15:48	74-95-3	
Dichlorodifluoromethane	< <b>0.16</b>	ug/L	1.0	0.16	1		04/10/14 15:48	75-71-8	
Ethylbenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	100-41-4	
Methyl-tert-butyl ether	< <b>0.17</b>	ug/L	1.0	0.17	1		04/10/14 15:48	1634-04-4	
Methylene Chloride	< <b>0.23</b>	ug/L	1.0	0.23	1		04/10/14 15:48	75-09-2	
Naphthalene	< <b>2.5</b>	ug/L	5.0	2.5	1		04/10/14 15:48	91-20-3	
Styrene	< <b>0.15</b>	ug/L	1.0	0.15	1		04/10/14 15:48	100-42-5	
Tetrachloroethene	< <b>0.50</b>	ug/L	1.0	0.50	1		04/10/14 15:48	127-18-4	
Tetrahydrofuran	< <b>2.0</b>	ug/L	5.0	2.0	1		04/10/14 15:48	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-424SS**      **Lab ID: 4094426003**      Collected: 04/07/14 14:30      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:48	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/10/14 15:48	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/10/14 15:48	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/10/14 15:48	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/10/14 15:48	156-59-2	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/10/14 15:48	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/14 15:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/14 15:48	95-47-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/10/14 15:48	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 15:48	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97 %		59-130		1		04/10/14 15:48	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/10/14 15:48	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		04/10/14 15:48	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.47	Std. Units			1		04/07/14 14:30		
Field Specific Conductance	572	umhos/cm			1		04/07/14 14:30		
Turbidity	N	NTU			1		04/07/14 14:30		
Apparent Color	N	no units			1		04/07/14 14:30		
Odor	N	no units			1		04/07/14 14:30		
Temperature, Water (C)	13.7	deg C			1		04/07/14 14:30		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	2.5J	mg/L	4.0	2.0	1		04/10/14 12:40	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	311	mg/L	20.0	8.6	1		04/11/14 15:31		

**Sample: P-422B**      **Lab ID: 4094426004**      Collected: 04/07/14 11:15      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	180000	ug/L	2000	150	1		04/11/14 09:49		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:10	79-00-5	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/10/14 16:10	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/10/14 16:10	96-12-8	

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Project No.: 4094426

Sample: **P-422B** Lab ID: **4094426004** Collected: 04/07/14 11:15 Received: 04/09/14 07:37 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/10/14 16:10	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/10/14 16:10	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/10/14 16:10	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/10/14 16:10	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/10/14 16:10	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/10/14 16:10	74-83-9	
Carbon disulfide	<0.51	ug/L	5.0	0.51	1		04/10/14 16:10	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/10/14 16:10	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/10/14 16:10	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	74-87-3	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/10/14 16:10	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/10/14 16:10	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:10	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/10/14 16:10	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/10/14 16:10	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/10/14 16:10	91-20-3	
Styrene	<0.15	ug/L	1.0	0.15	1		04/10/14 16:10	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/10/14 16:10	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/10/14 16:10	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/10/14 16:10	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/10/14 16:10	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/10/14 16:10	156-59-2	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/10/14 16:10	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/14 16:10	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:10	95-47-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/10/14 16:10	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 16:10	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	59-130		1		04/10/14 16:10	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/10/14 16:10	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/14 16:10	2037-26-5	
<b>Field Data</b>									
Analytical Method:									
Field pH	7.66	Std. Units			1		04/07/14 11:15		
Field Specific Conductance	486	umhos/cm			1		04/07/14 11:15		

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Project No.: 4094426

**Sample: P-422B**      **Lab ID: 4094426004**      Collected: 04/07/14 11:15      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Turbidity	N	NTU			1		04/07/14 11:15		
Apparent Color	N	no units			1		04/07/14 11:15		
Odor	N	no units			1		04/07/14 11:15		
Temperature, Water (C)	14.6	deg C			1		04/07/14 11:15		
<b>300.0 IC Anions 28 Days, Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	33.6	mg/L	4.0	2.0	1		04/10/14 12:48	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	200	mg/L	20.0	8.6	1		04/11/14 15:31		

**Sample: MW-1B**      **Lab ID: 4094426005**      Collected: 04/07/14 10:50      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	276000	ug/L	2000	150	1		04/11/14 09:52		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:32	79-00-5	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/10/14 16:32	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/10/14 16:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/10/14 16:32	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/10/14 16:32	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/10/14 16:32	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/10/14 16:32	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/10/14 16:32	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/10/14 16:32	74-83-9	
Carbon disulfide	<0.51	ug/L	5.0	0.51	1		04/10/14 16:32	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/10/14 16:32	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/10/14 16:32	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	74-87-3	

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: MW-1B**      **Lab ID: 4094426005**      Collected: 04/07/14 10:50      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/10/14 16:32	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/10/14 16:32	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/10/14 16:32	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/10/14 16:32	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/10/14 16:32	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/10/14 16:32	91-20-3	
Styrene	<0.15	ug/L	1.0	0.15	1		04/10/14 16:32	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/10/14 16:32	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/10/14 16:32	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/10/14 16:32	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/10/14 16:32	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/10/14 16:32	156-59-2	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/10/14 16:32	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/14 16:32	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/14 16:32	95-47-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/10/14 16:32	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 16:32	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98 %		59-130		1		04/10/14 16:32	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		04/10/14 16:32	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		04/10/14 16:32	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.29	Std. Units			1		04/07/14 10:50		
Field Specific Conductance	655	umhos/cm			1		04/07/14 10:50		
Turbidity	N	NTU			1		04/07/14 10:50		
Apparent Color	N	no units			1		04/07/14 10:50		
Odor	N	no units			1		04/07/14 10:50		
Temperature, Water (C)	14.4	deg C			1		04/07/14 10:50		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	69.8	mg/L	20.0	10.0	5		04/10/14 12:57	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	219	mg/L	20.0	8.6	1		04/11/14 15:32		

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-401D**      **Lab ID: 4094426006**      Collected: 04/07/14 12:20      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>255000</b>	ug/L	2000	150	1		04/11/14 09:54		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 16:53	79-00-5	
1,1-Dichloroethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 16:53	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/10/14 16:53	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/10/14 16:53	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 16:53	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 16:53	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/10/14 16:53	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/10/14 16:53	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/10/14 16:53	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/10/14 16:53	74-83-9	
Carbon disulfide	<b>&lt;0.51</b>	ug/L	5.0	0.51	1		04/10/14 16:53	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/10/14 16:53	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/10/14 16:53	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	74-87-3	
Dibromochloromethane	<b>&lt;0.32</b>	ug/L	1.0	0.32	1		04/10/14 16:53	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/10/14 16:53	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		04/10/14 16:53	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 16:53	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/10/14 16:53	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/10/14 16:53	91-20-3	
Styrene	<b>&lt;0.15</b>	ug/L	1.0	0.15	1		04/10/14 16:53	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/10/14 16:53	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/10/14 16:53	79-01-6	
Trichlorofluoromethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/10/14 16:53	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/10/14 16:53	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/10/14 16:53	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.15</b>	ug/L	1.0	0.15	1		04/10/14 16:53	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/10/14 16:53	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/14 16:53	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/10/14 16:53	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014  
Pace Project No.: 4094426

**Sample: P-401D**      **Lab ID: 4094426006**      Collected: 04/07/14 12:20      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 16:53	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98 %		59-130		1		04/10/14 16:53	460-00-4	
Dibromofluoromethane (S)	102 %		70-130		1		04/10/14 16:53	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		04/10/14 16:53	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.38	Std. Units			1		04/07/14 12:20		
Field Specific Conductance	688	umhos/cm			1		04/07/14 12:20		
Turbidity	N	NTU			1		04/07/14 12:20		
Apparent Color	N	no units			1		04/07/14 12:20		
Odor	N	no units			1		04/07/14 12:20		
Temperature, Water (C)	14.5	deg C			1		04/07/14 12:20		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	10.9	mg/L	4.0	2.0	1		04/11/14 09:39	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	362	mg/L	20.0	8.6	1		04/11/14 15:33		

**Sample: P-402E**      **Lab ID: 4094426007**      Collected: 04/07/14 11:45      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	470000	ug/L	2000	150	1		04/11/14 10:01		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	71-55-6	
1,1,2-Trichloroethane	<0.62	ug/L	4.0	0.62	4		04/10/14 20:54	79-00-5	
1,1-Dichloroethane	1.2J	ug/L	4.0	0.65	4		04/10/14 20:54	75-34-3	
1,1-Dichloroethene	<1.6	ug/L	4.0	1.6	4		04/10/14 20:54	75-35-4	
1,2-Dibromo-3-chloropropane	<8.7	ug/L	20.0	8.7	4		04/10/14 20:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.66	ug/L	4.0	0.66	4		04/10/14 20:54	106-93-4	
1,2-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	95-50-1	
1,2-Dichloroethane	<0.67	ug/L	4.0	0.67	4		04/10/14 20:54	107-06-2	
1,2-Dichloropropane	<0.93	ug/L	4.0	0.93	4		04/10/14 20:54	78-87-5	
1,3-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	541-73-1	
1,4-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	106-46-7	
2-Butanone (MEK)	<11.9	ug/L	80.0	11.9	4		04/10/14 20:54	78-93-3	
Acetone	<11.8	ug/L	80.0	11.8	4		04/10/14 20:54	67-64-1	
Benzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	71-43-2	

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Sample: P-402E Lab ID: 4094426007 Collected: 04/07/14 11:45 Received: 04/09/14 07:37 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	75-25-2	
Bromomethane	<9.7	ug/L	20.0	9.7	4		04/10/14 20:54	74-83-9	
Carbon disulfide	<2.1	ug/L	20.0	2.1	4		04/10/14 20:54	75-15-0	
Carbon tetrachloride	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	56-23-5	
Chlorobenzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	108-90-7	
Chloroethane	8.0	ug/L	4.0	1.5	4		04/10/14 20:54	75-00-3	
Chloroform	<10.0	ug/L	20.0	10.0	4		04/10/14 20:54	67-66-3	
Chloromethane	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	74-87-3	
Dibromochloromethane	<1.3	ug/L	4.0	1.3	4		04/10/14 20:54	124-48-1	
Dibromomethane	<1.7	ug/L	4.0	1.7	4		04/10/14 20:54	74-95-3	
Dichlorodifluoromethane	<0.62	ug/L	4.0	0.62	4		04/10/14 20:54	75-71-8	
Ethylbenzene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	100-41-4	
Methyl-tert-butyl ether	<0.70	ug/L	4.0	0.70	4		04/10/14 20:54	1634-04-4	
Methylene Chloride	<0.93	ug/L	4.0	0.93	4		04/10/14 20:54	75-09-2	
Naphthalene	<10.0	ug/L	20.0	10.0	4		04/10/14 20:54	91-20-3	
Styrene	<0.61	ug/L	4.0	0.61	4		04/10/14 20:54	100-42-5	
Tetrachloroethene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	127-18-4	
Tetrahydrofuran	<8.1	ug/L	20.0	8.1	4		04/10/14 20:54	109-99-9	
Toluene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	108-88-3	
Trichloroethene	8.3	ug/L	4.0	1.3	4		04/10/14 20:54	79-01-6	
Trichlorofluoromethane	<0.69	ug/L	4.0	0.69	4		04/10/14 20:54	75-69-4	
Vinyl chloride	42.6	ug/L	4.0	0.70	4		04/10/14 20:54	75-01-4	
cis-1,2-Dichloroethene	326	ug/L	4.0	1.0	4		04/10/14 20:54	156-59-2	
cis-1,3-Dichloropropene	<0.59	ug/L	4.0	0.59	4		04/10/14 20:54	10061-01-5	
m&p-Xylene	<4.0	ug/L	8.0	4.0	4		04/10/14 20:54	179601-23-1	
o-Xylene	<2.0	ug/L	4.0	2.0	4		04/10/14 20:54	95-47-6	
trans-1,2-Dichloroethene	12.0	ug/L	4.0	0.95	4		04/10/14 20:54	156-60-5	
trans-1,3-Dichloropropene	<0.92	ug/L	4.0	0.92	4		04/10/14 20:54	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	59-130		4		04/10/14 20:54	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		4		04/10/14 20:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130		4		04/10/14 20:54	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.18	Std. Units			1		04/07/14 11:45		
Field Specific Conductance	861	umhos/cm			1		04/07/14 11:45		
Turbidity	N	NTU			1		04/07/14 11:45		
Apparent Color	N	no units			1		04/07/14 11:45		
Odor	N	no units			1		04/07/14 11:45		
Temperature, Water (C)	14.0	deg C			1		04/07/14 11:45		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	61.5	mg/L	20.0	10.0	5		04/11/14 10:03	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

**Sample: P-402E**      **Lab ID: 4094426007**      Collected: 04/07/14 11:45      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	399	mg/L	20.0	8.6	1		04/11/14 15:33		

**Sample: TRIP BLANK**      **Lab ID: 4094426008**      Collected: 04/07/14 00:00      Received: 04/09/14 07:37      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 20:32	79-00-5	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/10/14 20:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/10/14 20:32	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/10/14 20:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/10/14 20:32	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/10/14 20:32	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/10/14 20:32	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/10/14 20:32	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/10/14 20:32	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/10/14 20:32	74-83-9	
Carbon disulfide	<0.51	ug/L	5.0	0.51	1		04/10/14 20:32	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/10/14 20:32	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/10/14 20:32	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	74-87-3	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/10/14 20:32	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/10/14 20:32	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/10/14 20:32	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/10/14 20:32	1634-04-4	
Methylene Chloride	0.25J	ug/L	1.0	0.23	1		04/10/14 20:32	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/10/14 20:32	91-20-3	
Styrene	<0.15	ug/L	1.0	0.15	1		04/10/14 20:32	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/10/14 20:32	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/10/14 20:32	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/10/14 20:32	75-69-4	

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

<b>Sample: TRIP BLANK</b>									
		<b>Lab ID: 4094426008</b>	Collected: 04/07/14 00:00		Received: 04/09/14 07:37		Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/10/14 20:32	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/10/14 20:32	156-59-2	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/10/14 20:32	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/14 20:32	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/14 20:32	95-47-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/10/14 20:32	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/10/14 20:32	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97 %		59-130		1		04/10/14 20:32	460-00-4	
Dibromofluoromethane (S)	102 %		70-130		1		04/10/14 20:32	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		04/10/14 20:32	2037-26-5	

<b>Sample: P-423D</b>									
		<b>Lab ID: 4094426009</b>	Collected: 04/01/14 00:00		Received: 05/15/14 18:34		Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	851.12	feet			1		04/01/14 00:00		

<b>Sample: P-424D</b>									
		<b>Lab ID: 4094426010</b>	Collected: 04/01/14 00:00		Received: 05/15/14 18:34		Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	851.56	feet			1		04/01/14 00:00		

<b>Sample: P-424SS</b>									
		<b>Lab ID: 4094426011</b>	Collected: 04/01/14 00:00		Received: 05/15/14 18:34		Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	851.23	feet			1		04/01/14 00:00		

<b>Sample: P-422B</b>									
		<b>Lab ID: 4094426012</b>	Collected: 04/01/14 00:00		Received: 05/15/14 18:34		Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	927.54	feet			1		04/01/14 00:00		

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### ANALYTICAL RESULTS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Sample: MW-1B		Lab ID: 4094426013		Collected: 04/01/14 00:00	Received: 05/15/14 18:34	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>925.48</b>	feet			1		04/01/14 00:00		

Sample: P-401D		Lab ID: 4094426014		Collected: 04/01/14 00:00	Received: 05/15/14 18:34	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>852.30</b>	feet			1		04/01/14 00:00		

Sample: P-402E		Lab ID: 4094426015		Collected: 04/01/14 00:00	Received: 05/15/14 18:34	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>852.28</b>	feet			1		04/01/14 00:00		

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

QC Batch: ICP/8864 Analysis Method: EPA 6010  
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
 Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007

METHOD BLANK: 953970 Matrix: Water  
 Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	167J	2000	04/11/14 09:35	

LABORATORY CONTROL SAMPLE: 953971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		31300			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953972 953973

Parameter	Units	4094426001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Total Hardness by 2340B, Dissolved	ug/L	420000			438000	441000					1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

QC Batch: MSV/23742 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007, 4094426008

METHOD BLANK: 953056 Matrix: Water  
 Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007, 4094426008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/10/14 10:41	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	04/10/14 10:41	
1,1-Dichloroethane	ug/L	<0.16	1.0	04/10/14 10:41	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/10/14 10:41	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/10/14 10:41	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	04/10/14 10:41	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/10/14 10:41	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/10/14 10:41	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/10/14 10:41	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/10/14 10:41	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/10/14 10:41	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/10/14 10:41	
Acetone	ug/L	<3.0	20.0	04/10/14 10:41	
Benzene	ug/L	<0.50	1.0	04/10/14 10:41	
Bromodichloromethane	ug/L	<0.50	1.0	04/10/14 10:41	
Bromoform	ug/L	<0.50	1.0	04/10/14 10:41	
Bromomethane	ug/L	<2.4	5.0	04/10/14 10:41	
Carbon disulfide	ug/L	<0.51	5.0	04/10/14 10:41	
Carbon tetrachloride	ug/L	<0.50	1.0	04/10/14 10:41	
Chlorobenzene	ug/L	<0.50	1.0	04/10/14 10:41	
Chloroethane	ug/L	<0.37	1.0	04/10/14 10:41	
Chloroform	ug/L	<2.5	5.0	04/10/14 10:41	
Chloromethane	ug/L	<0.50	1.0	04/10/14 10:41	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/10/14 10:41	
cis-1,3-Dichloropropene	ug/L	<0.15	1.0	04/10/14 10:41	
Dibromochloromethane	ug/L	<0.32	1.0	04/10/14 10:41	
Dibromomethane	ug/L	<0.43	1.0	04/10/14 10:41	
Dichlorodifluoromethane	ug/L	<0.16	1.0	04/10/14 10:41	
Ethylbenzene	ug/L	<0.50	1.0	04/10/14 10:41	
m&p-Xylene	ug/L	<1.0	2.0	04/10/14 10:41	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/10/14 10:41	
Methylene Chloride	ug/L	<0.23	1.0	04/10/14 10:41	
Naphthalene	ug/L	<2.5	5.0	04/10/14 10:41	
o-Xylene	ug/L	<0.50	1.0	04/10/14 10:41	
Styrene	ug/L	<0.15	1.0	04/10/14 10:41	
Tetrachloroethane	ug/L	<0.50	1.0	04/10/14 10:41	
Tetrahydrofuran	ug/L	<2.0	5.0	04/10/14 10:41	
Toluene	ug/L	<0.50	1.0	04/10/14 10:41	
trans-1,2-Dichloroethene	ug/L	<0.24	1.0	04/10/14 10:41	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/10/14 10:41	
Trichloroethene	ug/L	<0.33	1.0	04/10/14 10:41	
Trichlorofluoromethane	ug/L	<0.17	1.0	04/10/14 10:41	
Vinyl chloride	ug/L	<0.18	1.0	04/10/14 10:41	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

METHOD BLANK: 953056

Matrix: Water

Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007, 4094426008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	98	59-130	04/10/14 10:41	
Dibromofluoromethane (S)	%	94	70-130	04/10/14 10:41	
Toluene-d8 (S)	%	99	70-130	04/10/14 10:41	

LABORATORY CONTROL SAMPLE & LCSD: 953057

953058

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.0	56.8	114	114	70-130	0	20	
1,1,2-Trichloroethane	ug/L	50	49.7	49.2	99	98	70-130	1	20	
1,1-Dichloroethane	ug/L	50	50.1	49.7	100	99	70-130	1	20	
1,1-Dichloroethene	ug/L	50	56.0	55.4	112	111	70-132	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	43.0	42.5	86	85	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	50.9	103	102	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	51.5	50.6	103	101	70-130	2	20	
1,2-Dichloroethane	ug/L	50	47.7	47.7	95	95	70-130	0	20	
1,2-Dichloropropane	ug/L	50	51.3	50.5	103	101	70-130	1	20	
1,3-Dichlorobenzene	ug/L	50	52.6	51.7	105	103	70-130	2	20	
1,4-Dichlorobenzene	ug/L	50	51.4	50.4	103	101	70-130	2	20	
Benzene	ug/L	50	52.5	52.1	105	104	70-130	1	20	
Bromodichloromethane	ug/L	50	51.3	50.4	103	101	70-130	2	20	
Bromoform	ug/L	50	45.7	44.8	91	90	70-130	2	20	
Bromomethane	ug/L	50	39.4	40.5	79	81	34-157	3	20	
Carbon disulfide	ug/L	50	57.2	57.3	114	115	70-137	0	20	
Carbon tetrachloride	ug/L	50	63.5	62.6	127	125	70-132	2	20	
Chlorobenzene	ug/L	50	52.3	51.5	105	103	70-130	1	20	
Chloroethane	ug/L	50	52.4	52.1	105	104	60-143	1	20	
Chloroform	ug/L	50	51.0	50.9	102	102	70-130	0	20	
Chloromethane	ug/L	50	49.4	49.0	99	98	43-148	1	20	
cis-1,2-Dichloroethene	ug/L	50	52.0	51.3	104	103	51-133	1	20	
cis-1,3-Dichloropropene	ug/L	50	48.1	47.3	96	95	70-130	2	20	
Dibromochloromethane	ug/L	50	47.9	47.4	96	95	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	44.6	44.4	89	89	10-174	0	20	
Ethylbenzene	ug/L	50	56.3	54.8	113	110	70-130	3	20	
m&p-Xylene	ug/L	100	111	109	111	109	70-131	2	20	
Methyl-tert-butyl ether	ug/L	50	47.9	47.4	96	95	54-139	1	20	
Methylene Chloride	ug/L	50	47.8	47.8	96	96	70-130	0	20	
o-Xylene	ug/L	50	56.4	54.7	113	109	70-130	3	20	
Styrene	ug/L	50	54.3	53.6	109	107	70-130	1	20	
Tetrachloroethene	ug/L	50	53.9	52.9	108	106	70-130	2	20	
Toluene	ug/L	50	54.7	53.6	109	107	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	51.8	51.4	104	103	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	48.6	47.5	97	95	70-130	2	20	
Trichloroethene	ug/L	50	55.0	53.6	110	107	70-130	2	20	
Trichlorofluoromethane	ug/L	50	58.0	57.3	116	115	50-150	1	20	
Vinyl chloride	ug/L	50	56.2	56.1	112	112	59-157	0	20	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

LABORATORY CONTROL SAMPLE & LCSD: 953057		953058									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
4-Bromofluorobenzene (S)	%				98	98	59-130				
Dibromofluoromethane (S)	%				98	98	70-130				
Toluene-d8 (S)	%				99	100	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953074		953075											
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		4094414010 Result	Spike Conc.	Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.9	55.2	110	110	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.16	50	50	47.9	48.3	96	97	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.16	50	50	49.0	49.8	98	100	70-130	2	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	55.0	55.6	110	111	70-138	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	42.2	42.9	84	86	50-150	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	49.2	50.1	98	100	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.9	50.1	98	100	70-130	2	20		
1,2-Dichloroethane	ug/L	17.6	50	50	62.1	63.5	89	92	70-130	2	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	49.3	49.9	99	100	70-130	1	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.4	51.1	101	102	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	48.9	50.3	98	101	70-130	3	20		
Benzene	ug/L	<0.50	50	50	51.3	52.0	102	103	70-130	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.1	49.8	98	100	70-130	1	20		
Bromoform	ug/L	<0.50	50	50	43.5	44.3	87	89	70-130	2	20		
Bromomethane	ug/L	<2.4	50	50	42.9	44.8	86	90	34-159	4	20		
Carbon disulfide	ug/L	<0.51	50	50	56.9	57.6	113	114	68-142	1	25		
Carbon tetrachloride	ug/L	<0.50	50	50	60.9	60.7	122	121	70-132	0	20		
Chlorobenzene	ug/L	<0.50	50	50	50.2	50.5	100	101	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	51.6	51.5	103	103	60-143	0	20		
Chloroform	ug/L	<2.5	50	50	49.4	50.0	99	100	70-130	1	20		
Chloromethane	ug/L	<0.50	50	50	46.1	47.9	92	96	43-149	4	20		
cis-1,2-Dichloroethene	ug/L	30.4	50	50	78.0	81.2	95	102	48-137	4	33		
cis-1,3-Dichloropropene	ug/L	<0.15	50	50	45.5	46.7	91	93	70-130	3	20		
Dibromochloromethane	ug/L	<0.32	50	50	46.2	46.4	92	93	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.16	50	50	41.9	42.2	84	84	10-174	1	20		
Ethylbenzene	ug/L	<0.50	50	50	53.5	54.5	107	109	70-130	2	20		
m&p-Xylene	ug/L	<1.0	100	100	107	108	107	107	70-135	0	20		
Methyl-tert-butyl ether	ug/L	2.1	50	50	48.7	49.2	93	94	54-139	1	20		
Methylene Chloride	ug/L	<0.23	50	50	47.4	48.1	95	96	70-133	1	20		
o-Xylene	ug/L	<0.50	50	50	53.2	54.1	106	108	70-130	2	20		
Styrene	ug/L	<0.15	50	50	52.0	53.0	104	106	70-130	2	20		
Tetrachloroethene	ug/L	<0.50	50	50	51.0	51.1	102	102	70-130	0	20		
Toluene	ug/L	<0.50	50	50	52.1	53.2	104	106	70-130	2	20		
trans-1,2-Dichloroethene	ug/L	0.78J	50	50	51.1	52.2	101	103	70-130	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.3	46.9	93	94	70-130	1	20		
Trichloroethene	ug/L	50.0	50	50	91.1	105	82	109	70-130	14	20		
Trichlorofluoromethane	ug/L	<0.17	50	50	56.9	57.2	114	114	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	54.6	55.4	109	111	59-158	1	20		
4-Bromofluorobenzene (S)	%						98	98	59-130				

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			953074		953075							
Parameter	Units	4094414010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						99	98	70-130			
Toluene-d8 (S)	%						100	100	70-130			

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014  
Pace Project No.: 4094426

QC Batch: WETA/22634 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005

METHOD BLANK: 953155 Matrix: Water  
Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/10/14 08:59	

LABORATORY CONTROL SAMPLE: 953156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953157 953158

Parameter	Units	4094423001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	6.3	20	20	25.3	25.5	95	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953159 953160

Parameter	Units	4094426001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	29.9	20	20	50.2	50.6	102	103	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

QC Batch: WETA/22657 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
 Associated Lab Samples: 4094426006, 4094426007

METHOD BLANK: 953974 Matrix: Water  
 Associated Lab Samples: 4094426006, 4094426007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/11/14 09:22	

LABORATORY CONTROL SAMPLE: 953975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.3	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953976 953977

Parameter	Units	4094426006		4094426007		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	10.9	20	20	30.8	30.7	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953978 953979

Parameter	Units	4094467001		4094467002		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	15.3	20	20	35.5	35.5	101	101	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVEST. WELLS APR 2014  
Pace Project No.: 4094426

QC Batch: WETA/22662 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007

METHOD BLANK: 954233 Matrix: Water  
Associated Lab Samples: 4094426001, 4094426002, 4094426003, 4094426004, 4094426005, 4094426006, 4094426007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/11/14 15:22	

LABORATORY CONTROL SAMPLE: 954234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	110	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954235 954236

Parameter	Units	4094426002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	369	500	500	917	931	110	112	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954237 954238

Parameter	Units	4094467002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	13.1J	100	100	120	117	107	104	90-110	2	20	

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## QUALIFIERS

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVEST. WELLS APR 2014

Pace Project No.: 4094426

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4094426001	P-423D	EPA 6010	ICP/8864		
4094426002	P-424D	EPA 6010	ICP/8864		
4094426003	P-424SS	EPA 6010	ICP/8864		
4094426004	P-422B	EPA 6010	ICP/8864		
4094426005	MW-1B	EPA 6010	ICP/8864		
4094426006	P-401D	EPA 6010	ICP/8864		
4094426007	P-402E	EPA 6010	ICP/8864		
4094426001	P-423D	EPA 8260	MSV/23742		
4094426002	P-424D	EPA 8260	MSV/23742		
4094426003	P-424SS	EPA 8260	MSV/23742		
4094426004	P-422B	EPA 8260	MSV/23742		
4094426005	MW-1B	EPA 8260	MSV/23742		
4094426006	P-401D	EPA 8260	MSV/23742		
4094426007	P-402E	EPA 8260	MSV/23742		
4094426008	TRIP BLANK	EPA 8260	MSV/23742		
4094426001	P-423D		PM/1095		
4094426002	P-424D		PM/1095		
4094426003	P-424SS		PM/1095		
4094426004	P-422B		PM/1095		
4094426005	MW-1B		PM/1095		
4094426006	P-401D		PM/1095		
4094426007	P-402E		PM/1095		
4094426009	P-423D		PM/1096		
4094426010	P-424D		PM/1096		
4094426011	P-424SS		PM/1096		
4094426012	P-422B		PM/1096		
4094426013	MW-1B		PM/1096		
4094426014	P-401D		PM/1096		
4094426015	P-402E		PM/1096		
4094426001	P-423D	EPA 300.0	WETA/22634		
4094426002	P-424D	EPA 300.0	WETA/22634		
4094426003	P-424SS	EPA 300.0	WETA/22634		
4094426004	P-422B	EPA 300.0	WETA/22634		
4094426005	MW-1B	EPA 300.0	WETA/22634		
4094426006	P-401D	EPA 300.0	WETA/22657		
4094426007	P-402E	EPA 300.0	WETA/22657		
4094426001	P-423D	EPA 310.2	WETA/22662		
4094426002	P-424D	EPA 310.2	WETA/22662		
4094426003	P-424SS	EPA 310.2	WETA/22662		
4094426004	P-422B	EPA 310.2	WETA/22662		
4094426005	MW-1B	EPA 310.2	WETA/22662		
4094426006	P-401D	EPA 310.2	WETA/22662		
4094426007	P-402E	EPA 310.2	WETA/22662		

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UPPER MIDWEST REGION  
MN: 612-607-1700 WI: 920-469-2436



# CHAIN OF CUSTODY

\*Preservation Codes  
A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH  
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Y/N	Y	Y	Y	Y/N
Y	A	D	B	Y
Y	F-NONE	F-H2O	F-NA	Y

**Company Name:** Advanced Digital Services  
**Branch/Location:** Glacier Ridge Lambing  
**Project Contact:** Frank Perugini Esci  
**Phone:** 414-427-5033  
**Project Number:** 04-2014  
**Project Name:** LGRL  
**Project State:** WI  
**Sampled By (Print):** Scott Fremmark  
**Sampled By (Sign):** [Signature]  
**PO #:** [Blank]  
**Regulatory Program:** [Blank]

**Data Package Options (billable)**  
 EPA Level III (billable)  
 EPA Level IV  
 On your sample (billable)  
 NOT needed on your sample

**MS/MSD**

**Matrix Codes**  
W = Water  
DW = Drinking Water  
GW = Ground Water  
SW = Surface Water  
WW = Waste Water  
WP = Wipe

**PACE LAB #**      **CLIENT FIELD ID**

DATE	TIME	MATRIX
4/7/14	1315	GW
	1500	
	1430	
	1115	
	1050	
	1220	V
4/14/14	1145	GW

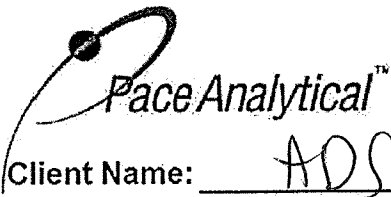
**Rush Turnaround Time Requested - Prelims**  
(Rush TAT subject to approval/surcharge)  
**Date Needed:** [Blank]  
**Transmit Prelim Rush Results by (complete what you want):**

**Relinquished By:** [Signature]      **Date/Time:** 4/8/14 1200  
**Relinquished By:** [Signature]      **Date/Time:** 4/8/14 0737  
**Relinquished By:** [Signature]      **Date/Time:** [Blank]  
**Relinquished By:** [Signature]      **Date/Time:** [Blank]  
**Relinquished By:** [Signature]      **Date/Time:** [Blank]

**Receipts:**  
**Received By:** [Signature]      **Date/Time:** 4/14/14 0737  
**Received By:** [Signature]      **Date/Time:** 4/14/14 0737  
**Received By:** [Signature]      **Date/Time:** [Blank]  
**Received By:** [Signature]      **Date/Time:** [Blank]

**Other:**  
**Sample Receipt pH:** OK/Adjusted  
**Cooler Custody Seal:** Present/Not Present

**Quote #:** -  
**Mail To Contact:** Tim Conway - ADS  
**Mail To Company:** Sheren Clark - SCS  
**Mail To Address:** Mari Bull - SCS  
Frank Perugini - BSC  
**Invoice To Contact:** -  
**Invoice To Company:** ADS-GRL  
**Invoice To Address:** 17296 HWY V  
Abricon, WI 53012  
**Invoice To Phone:** 800-781-0944  
**LAB COMMENTS**  
**CLIENT COMMENTS**  
3-4 Days B 2-250ml B  
AD  
2-40ml B



Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Project #: **WO#: 4094426**

Client Name: ADS  
 Courier:  Fed Ex  UPS  Client  Pace Other: Dunham  
 Tracking #: 733021



Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used: NA    Type of Ice: Wet Blue Dry None  Samples on ice, cooling process has begun  
 Cooler Temperature: Uncorr: R01 / Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes  no  
 Temp Blank Present:  yes  no

Person examining contents:  
 Date: 4/9/14  
 Initials: DA

Temp should be above freezing to 6°C for all sample except Biota.  
 Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>004 2-250mL AD are only samples</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>labeled on bottles as filtered.</u> <u>4/9/14 BK</u>
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤ 2; NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>DA</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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):	<u>318</u>	

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

Project Manager Review: CAW Date: 4/9/14

December 04, 2014

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

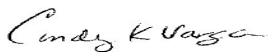
RE: Project: LGRL INVESTIGATION OCT 2014  
Pace Project No.: 40105148

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between October 11, 2014 and October 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Tim Curry, Advanced Disposal Services  
Frank Perugini, ESC (Environmental Sampling Corp)  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334

New York Certification #: 11888  
North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
US Dept of Agriculture #: S-76505  
Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40105148001	MW-1B	Water	10/10/14 11:50	10/11/14 08:30
40105148002	P-422B	Water	10/10/14 12:15	10/11/14 08:30
40105480001	P-424D	Water	10/16/14 11:50	10/17/14 08:15
40105480002	P-424SS	Water	10/16/14 13:00	10/17/14 08:15
40105480003	P-423D	Water	10/16/14 13:45	10/17/14 08:15
40105529001	P-401D	Water	10/17/14 10:35	10/18/14 08:45
40105529002	P-402E	Water	10/15/14 11:15	10/18/14 08:45
40105529003	TRIP BLANK	Water	10/15/14 00:00	10/18/14 08:45
40105148009	MW-1B	Water	10/06/14 00:00	10/11/14 08:30
40105148010	P-401D	Water	10/06/14 00:00	10/18/14 08:45
40105148011	P-402E	Water	10/06/14 00:00	10/18/14 08:45
40105148012	P-422B	Water	10/06/14 00:00	10/11/14 08:30
40105148013	P-423D	Water	10/06/14 00:00	10/17/14 08:15
40105148014	P-424D	Water	10/06/14 00:00	10/17/14 08:15
40105148015	P-424SS	Water	10/06/14 00:00	10/17/14 08:15

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION OCT 2014  
Pace Project No.: 40105148

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40105148001	MW-1B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105148002	P-422B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105480001	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105480002	P-424SS	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105480003	P-423D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105529001	P-401D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105529002	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40105529003	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40105148009	MW-1B		MAT	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40105148010	P-401D		MAT	1	PASI-G
40105148011	P-402E		MAT	1	PASI-G
40105148012	P-422B		MAT	1	PASI-G
40105148013	P-423D		MAT	1	PASI-G
40105148014	P-424D		MAT	1	PASI-G
40105148015	P-424SS		MAT	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: MW-1B**      **Lab ID: 40105148001**      Collected: 10/10/14 11:50      Received: 10/11/14 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>284000</b>	ug/L	2000	150	1		10/14/14 14:23		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		10/15/14 21:51	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/15/14 21:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/15/14 21:51	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/15/14 21:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		10/15/14 21:51	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/15/14 21:51	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/15/14 21:51	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/15/14 21:51	78-93-3	
Acetone	<b>4.1J</b>	ug/L	20.0	3.0	1		10/15/14 21:51	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/15/14 21:51	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/15/14 21:51	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/15/14 21:51	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/15/14 21:51	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/15/14 21:51	74-95-3	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		10/15/14 21:51	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/15/14 21:51	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/15/14 21:51	75-09-2	L3
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/15/14 21:51	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/15/14 21:51	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/15/14 21:51	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		10/15/14 21:51	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/15/14 21:51	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/14 21:51	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/15/14 21:51	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/15/14 21:51	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/14 21:51	156-60-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: MW-1B**      **Lab ID: 40105148001**      Collected: 10/10/14 11:50      Received: 10/11/14 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/15/14 21:51	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	59-130		1		10/15/14 21:51	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		10/15/14 21:51	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/15/14 21:51	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	6.82	Std. Units			1		10/10/14 11:50		
Field Specific Conductance	542	umhos/cm			1		10/10/14 11:50		
Turbidity	N	NTU			1		10/10/14 11:50		
Apparent Color	N	no units			1		10/10/14 11:50		
Odor	N	no units			1		10/10/14 11:50		
Temperature, Water (C)	15.0	deg C			1		10/10/14 11:50		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	71.6	mg/L	20.0	10.0	5		10/22/14 17:59	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	213	mg/L	20.0	8.6	1		10/21/14 09:52		

**Sample: P-422B**      **Lab ID: 40105148002**      Collected: 10/10/14 12:15      Received: 10/11/14 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	170000	ug/L	2000	150	1		10/14/14 14:25		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		10/15/14 22:14	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/15/14 22:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/15/14 22:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/15/14 22:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		10/15/14 22:14	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/15/14 22:14	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/15/14 22:14	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/15/14 22:14	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/15/14 22:14	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	71-43-2	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-422B**      **Lab ID: 40105148002**      Collected: 10/10/14 12:15      Received: 10/11/14 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/15/14 22:14	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/15/14 22:14	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/15/14 22:14	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/15/14 22:14	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/15/14 22:14	74-95-3	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		10/15/14 22:14	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/15/14 22:14	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/15/14 22:14	75-09-2	L3
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/15/14 22:14	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/15/14 22:14	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/15/14 22:14	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		10/15/14 22:14	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/15/14 22:14	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/14 22:14	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/15/14 22:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/15/14 22:14	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/14 22:14	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/15/14 22:14	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	59-130		1		10/15/14 22:14	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		10/15/14 22:14	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/15/14 22:14	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.61	Std. Units			1		10/10/14 12:15		
Field Specific Conductance	461	umhos/cm			1		10/10/14 12:15		
Turbidity	N	NTU			1		10/10/14 12:15		
Apparent Color	N	no units			1		10/10/14 12:15		
Odor	N	no units			1		10/10/14 12:15		
Temperature, Water (C)	13.6	deg C			1		10/10/14 12:15		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	25.9	mg/L	4.0	2.0	1		10/22/14 15:07	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-422B**      **Lab ID: 40105148002**      Collected: 10/10/14 12:15      Received: 10/11/14 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>198</b>	mg/L	20.0	8.6	1		10/21/14 09:52		

**Sample: P-424D**      **Lab ID: 40105480001**      Collected: 10/16/14 11:50      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>424000</b>	ug/L	2000	150	1		10/21/14 16:04		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	71-55-6	
1,1,2-Trichloroethane	< <b>0.31</b>	ug/L	2.0	0.31	2		10/21/14 03:05	79-00-5	
1,1-Dichloroethane	<b>0.92J</b>	ug/L	2.0	0.48	2		10/21/14 03:05	75-34-3	
1,1-Dichloroethene	< <b>0.82</b>	ug/L	2.0	0.82	2		10/21/14 03:05	75-35-4	
1,2-Dibromo-3-chloropropane	< <b>4.3</b>	ug/L	10.0	4.3	2		10/21/14 03:05	96-12-8	
1,2-Dibromoethane (EDB)	< <b>0.33</b>	ug/L	2.0	0.33	2		10/21/14 03:05	106-93-4	
1,2-Dichlorobenzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	95-50-1	
1,2-Dichloroethane	< <b>0.34</b>	ug/L	2.0	0.34	2		10/21/14 03:05	107-06-2	
1,2-Dichloropropane	< <b>0.47</b>	ug/L	2.0	0.47	2		10/21/14 03:05	78-87-5	
1,3-Dichlorobenzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	541-73-1	
1,4-Dichlorobenzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	106-46-7	
2-Butanone (MEK)	< <b>6.0</b>	ug/L	40.0	6.0	2		10/21/14 03:05	78-93-3	
Acetone	< <b>5.9</b>	ug/L	40.0	5.9	2		10/21/14 03:05	67-64-1	
Benzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	71-43-2	
Bromodichloromethane	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	75-27-4	
Bromoform	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	75-25-2	
Bromomethane	< <b>4.9</b>	ug/L	10.0	4.9	2		10/21/14 03:05	74-83-9	
Carbon disulfide	< <b>1.2</b>	ug/L	10.0	1.2	2		10/21/14 03:05	75-15-0	
Carbon tetrachloride	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	56-23-5	
Chlorobenzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	108-90-7	
Chloroethane	<b>3.3</b>	ug/L	2.0	0.75	2		10/21/14 03:05	75-00-3	
Chloroform	< <b>5.0</b>	ug/L	10.0	5.0	2		10/21/14 03:05	67-66-3	
Chloromethane	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	74-87-3	
Dibromochloromethane	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	124-48-1	
Dibromomethane	< <b>0.85</b>	ug/L	2.0	0.85	2		10/21/14 03:05	74-95-3	
Dichlorodifluoromethane	< <b>0.41</b>	ug/L	2.0	0.41	2		10/21/14 03:05	75-71-8	
Ethylbenzene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	100-41-4	
Methyl-tert-butyl ether	< <b>0.35</b>	ug/L	2.0	0.35	2		10/21/14 03:05	1634-04-4	
Methylene Chloride	< <b>0.47</b>	ug/L	2.0	0.47	2		10/21/14 03:05	75-09-2	
Naphthalene	< <b>5.0</b>	ug/L	10.0	5.0	2		10/21/14 03:05	91-20-3	
Styrene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	100-42-5	
Tetrachloroethene	< <b>1.0</b>	ug/L	2.0	1.0	2		10/21/14 03:05	127-18-4	
Tetrahydrofuran	< <b>4.1</b>	ug/L	10.0	4.1	2		10/21/14 03:05	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-424D**      **Lab ID: 40105480001**      Collected: 10/16/14 11:50      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.0	ug/L	2.0	1.0	2		10/21/14 03:05	108-88-3	
Trichloroethene	2.4	ug/L	2.0	0.66	2		10/21/14 03:05	79-01-6	
Trichlorofluoromethane	<0.34	ug/L	2.0	0.34	2		10/21/14 03:05	75-69-4	
Vinyl chloride	7.7	ug/L	2.0	0.35	2		10/21/14 03:05	75-01-4	
cis-1,2-Dichloroethene	122	ug/L	2.0	0.51	2		10/21/14 03:05	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	2.0	1.0	2		10/21/14 03:05	10061-01-5	
m&p-Xylene	<2.0	ug/L	4.0	2.0	2		10/21/14 03:05	179601-23-1	
o-Xylene	<1.0	ug/L	2.0	1.0	2		10/21/14 03:05	95-47-6	
trans-1,2-Dichloroethene	4.9	ug/L	2.0	0.51	2		10/21/14 03:05	156-60-5	
trans-1,3-Dichloropropene	<0.46	ug/L	2.0	0.46	2		10/21/14 03:05	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89 %		59-130		2		10/21/14 03:05	460-00-4	
Dibromofluoromethane (S)	103 %		70-130		2		10/21/14 03:05	1868-53-7	
Toluene-d8 (S)	98 %		70-130		2		10/21/14 03:05	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.06	Std. Units			1		10/16/14 11:50		
Field Specific Conductance	803	umhos/cm			1		10/16/14 11:50		
Turbidity	N	NTU			1		10/16/14 11:50		
Apparent Color	N	no units			1		10/16/14 11:50		
Odor	N	no units			1		10/16/14 11:50		
Temperature, Water (C)	13.1	deg C			1		10/16/14 11:50		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	40.7	mg/L	4.0	2.0	1		10/29/14 17:19	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	358	mg/L	100	43.2	5		10/28/14 08:49		

**Sample: P-424SS**      **Lab ID: 40105480002**      Collected: 10/16/14 13:00      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	283000	ug/L	2000	150	1		10/21/14 16:10		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		10/21/14 02:20	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/21/14 02:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/21/14 02:20	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/21/14 02:20	96-12-8	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-424SS**      **Lab ID: 40105480002**      Collected: 10/16/14 13:00      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		10/21/14 02:20	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/21/14 02:20	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/21/14 02:20	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/21/14 02:20	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/21/14 02:20	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/21/14 02:20	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/21/14 02:20	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/21/14 02:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/21/14 02:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/21/14 02:20	74-95-3	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		10/21/14 02:20	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/21/14 02:20	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/21/14 02:20	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/21/14 02:20	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/21/14 02:20	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/21/14 02:20	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		10/21/14 02:20	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/21/14 02:20	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/21/14 02:20	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/21/14 02:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:20	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/21/14 02:20	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/21/14 02:20	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89 %		59-130		1		10/21/14 02:20	460-00-4	
Dibromofluoromethane (S)	104 %		70-130		1		10/21/14 02:20	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		10/21/14 02:20	2037-26-5	

**Field Data**

Analytical Method:

Field pH	7.28	Std. Units			1		10/16/14 13:00		
Field Specific Conductance	512	umhos/cm			1		10/16/14 13:00		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-424SS**      **Lab ID: 40105480002**      Collected: 10/16/14 13:00      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Turbidity	N	NTU			1		10/16/14 13:00		
Apparent Color	N	no units			1		10/16/14 13:00		
Odor	N	no units			1		10/16/14 13:00		
Temperature, Water (C)	13.4	deg C			1		10/16/14 13:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	2.8J	mg/L	4.0	2.0	1		10/29/14 17:27	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	303	mg/L	20.0	8.6	1		10/28/14 08:51		

**Sample: P-423D**      **Lab ID: 40105480003**      Collected: 10/16/14 13:45      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	410000	ug/L	2000	150	1		10/21/14 16:13		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		10/21/14 02:42	79-00-5	
1,1-Dichloroethane	0.37J	ug/L	1.0	0.24	1		10/21/14 02:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/21/14 02:42	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/21/14 02:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		10/21/14 02:42	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/21/14 02:42	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/21/14 02:42	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/21/14 02:42	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/21/14 02:42	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/21/14 02:42	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/21/14 02:42	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	108-90-7	
Chloroethane	0.95J	ug/L	1.0	0.37	1		10/21/14 02:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/21/14 02:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	74-87-3	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-423D**      **Lab ID: 40105480003**      Collected: 10/16/14 13:45      Received: 10/17/14 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/21/14 02:42	74-95-3	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		10/21/14 02:42	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/21/14 02:42	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/21/14 02:42	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/21/14 02:42	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/21/14 02:42	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	108-88-3	
Trichloroethene	0.66J	ug/L	1.0	0.33	1		10/21/14 02:42	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		10/21/14 02:42	75-69-4	
Vinyl chloride	0.91J	ug/L	1.0	0.18	1		10/21/14 02:42	75-01-4	
cis-1,2-Dichloroethene	51.2	ug/L	1.0	0.26	1		10/21/14 02:42	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/21/14 02:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/21/14 02:42	95-47-6	
trans-1,2-Dichloroethene	2.5	ug/L	1.0	0.26	1		10/21/14 02:42	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/21/14 02:42	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	59-130		1		10/21/14 02:42	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/21/14 02:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/21/14 02:42	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.40	Std. Units			1		10/16/14 13:45		
Field Specific Conductance	732	umhos/cm			1		10/16/14 13:45		
Turbidity	N	NTU			1		10/16/14 13:45		
Apparent Color	N	no units			1		10/16/14 13:45		
Odor	N	no units			1		10/16/14 13:45		
Temperature, Water (C)	14.0	deg C			1		10/16/14 13:45		
<b>300.0 IC Anions 28 Days, Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	32.4	mg/L	4.0	2.0	1		10/29/14 17:36	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	347	mg/L	20.0	8.6	1		10/28/14 08:51		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-401D**      **Lab ID: 40105529001**      Collected: 10/17/14 10:35      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>280000</b>	ug/L	2000	150	1		10/21/14 16:26		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		10/21/14 18:48	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		10/21/14 18:48	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		10/21/14 18:48	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		10/21/14 18:48	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.16</b>	ug/L	1.0	0.16	1		10/21/14 18:48	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/21/14 18:48	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/21/14 18:48	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/21/14 18:48	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/21/14 18:48	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		10/21/14 18:48	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		10/21/14 18:48	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/21/14 18:48	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/21/14 18:48	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/21/14 18:48	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		10/21/14 18:48	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/21/14 18:48	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/21/14 18:48	75-09-2	L3
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/21/14 18:48	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		10/21/14 18:48	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		10/21/14 18:48	79-01-6	
Trichlorofluoromethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/21/14 18:48	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/21/14 18:48	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		10/21/14 18:48	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/21/14 18:48	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/21/14 18:48	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		10/21/14 18:48	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-401D**      **Lab ID: 40105529001**      Collected: 10/17/14 10:35      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/21/14 18:48	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84 %		59-130		1		10/21/14 18:48	460-00-4	
Dibromofluoromethane (S)	119 %		70-130		1		10/21/14 18:48	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		10/21/14 18:48	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	6.80	Std. Units			1		10/17/14 10:35		
Field Specific Conductance	595	umhos/cm			1		10/17/14 10:35		
Turbidity	N	NTU			1		10/17/14 10:35		
Apparent Color	N	no units			1		10/17/14 10:35		
Odor	N	no units			1		10/17/14 10:35		
Temperature, Water (C)	12.4	deg C			1		10/17/14 10:35		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	12.4	mg/L	4.0	2.0	1		10/31/14 11:59	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	340	mg/L	20.0	8.6	1		10/28/14 09:07		

**Sample: P-402E**      **Lab ID: 40105529002**      Collected: 10/15/14 11:15      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	453000	ug/L	2000	150	1		10/21/14 16:28		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	71-55-6	
1,1,2-Trichloroethane	<0.78	ug/L	5.0	0.78	5		10/21/14 19:33	79-00-5	
1,1-Dichloroethane	<1.2	ug/L	5.0	1.2	5		10/21/14 19:33	75-34-3	
1,1-Dichloroethene	<2.1	ug/L	5.0	2.1	5		10/21/14 19:33	75-35-4	
1,2-Dibromo-3-chloropropane	<10.8	ug/L	25.0	10.8	5		10/21/14 19:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.82	ug/L	5.0	0.82	5		10/21/14 19:33	106-93-4	
1,2-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	95-50-1	
1,2-Dichloroethane	<0.84	ug/L	5.0	0.84	5		10/21/14 19:33	107-06-2	
1,2-Dichloropropane	<1.2	ug/L	5.0	1.2	5		10/21/14 19:33	78-87-5	
1,3-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	541-73-1	
1,4-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	106-46-7	
2-Butanone (MEK)	<14.9	ug/L	100	14.9	5		10/21/14 19:33	78-93-3	
Acetone	<14.8	ug/L	100	14.8	5		10/21/14 19:33	67-64-1	
Benzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	71-43-2	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-402E**      **Lab ID: 40105529002**      Collected: 10/15/14 11:15      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	75-27-4	
Bromoform	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	75-25-2	
Bromomethane	<12.2	ug/L	25.0	12.2	5		10/21/14 19:33	74-83-9	
Carbon disulfide	<3.1	ug/L	25.0	3.1	5		10/21/14 19:33	75-15-0	
Carbon tetrachloride	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	56-23-5	
Chlorobenzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	108-90-7	
Chloroethane	5.0	ug/L	5.0	1.9	5		10/21/14 19:33	75-00-3	
Chloroform	<12.5	ug/L	25.0	12.5	5		10/21/14 19:33	67-66-3	
Chloromethane	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	74-87-3	
Dibromochloromethane	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	124-48-1	
Dibromomethane	<2.1	ug/L	5.0	2.1	5		10/21/14 19:33	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	5.0	1.0	5		10/21/14 19:33	75-71-8	
Ethylbenzene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	100-41-4	
Methyl-tert-butyl ether	<0.87	ug/L	5.0	0.87	5		10/21/14 19:33	1634-04-4	
Methylene Chloride	<1.2	ug/L	5.0	1.2	5		10/21/14 19:33	75-09-2	L3
Naphthalene	<12.5	ug/L	25.0	12.5	5		10/21/14 19:33	91-20-3	
Styrene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	100-42-5	
Tetrachloroethene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	127-18-4	
Tetrahydrofuran	<10.2	ug/L	25.0	10.2	5		10/21/14 19:33	109-99-9	
Toluene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	108-88-3	
Trichloroethene	6.5	ug/L	5.0	1.7	5		10/21/14 19:33	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	5.0	0.86	5		10/21/14 19:33	75-69-4	
Vinyl chloride	28.3	ug/L	5.0	0.88	5		10/21/14 19:33	75-01-4	
cis-1,2-Dichloroethene	283	ug/L	5.0	1.3	5		10/21/14 19:33	156-59-2	
cis-1,3-Dichloropropene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	10061-01-5	
m&p-Xylene	<5.0	ug/L	10.0	5.0	5		10/21/14 19:33	179601-23-1	
o-Xylene	<2.5	ug/L	5.0	2.5	5		10/21/14 19:33	95-47-6	
trans-1,2-Dichloroethene	17.9	ug/L	5.0	1.3	5		10/21/14 19:33	156-60-5	
trans-1,3-Dichloropropene	<1.1	ug/L	5.0	1.1	5		10/21/14 19:33	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	80	%	59-130		5		10/21/14 19:33	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		5		10/21/14 19:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		10/21/14 19:33	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.18	Std. Units			1		10/15/14 11:15		
Field Specific Conductance	388	umhos/cm			1		10/15/14 11:15		
Turbidity	N	NTU			1		10/15/14 11:15		
Apparent Color	N	no units			1		10/15/14 11:15		
Odor	N	no units			1		10/15/14 11:15		
Temperature, Water (C)	11.6	deg C			1		10/15/14 11:15		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	61.7	mg/L	20.0	10.0	5		10/31/14 15:58	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

**Sample: P-402E**      **Lab ID: 40105529002**      Collected: 10/15/14 11:15      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	373	mg/L	20.0	8.6	1		10/28/14 09:02		

**Sample: TRIP BLANK**      **Lab ID: 40105529003**      Collected: 10/15/14 00:00      Received: 10/18/14 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		10/21/14 15:21	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/21/14 15:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/21/14 15:21	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/21/14 15:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		10/21/14 15:21	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/21/14 15:21	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/21/14 15:21	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/21/14 15:21	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/21/14 15:21	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/21/14 15:21	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/21/14 15:21	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/21/14 15:21	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/21/14 15:21	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/21/14 15:21	74-95-3	
Dichlorodifluoromethane	<0.20	ug/L	1.0	0.20	1		10/21/14 15:21	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/21/14 15:21	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/21/14 15:21	75-09-2	L3
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/21/14 15:21	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/21/14 15:21	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/21/14 15:21	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		10/21/14 15:21	75-69-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Sample: TRIP BLANK      Lab ID: 40105529003      Collected: 10/15/14 00:00      Received: 10/18/14 08:45      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/21/14 15:21	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/21/14 15:21	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/21/14 15:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/21/14 15:21	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/21/14 15:21	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/21/14 15:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	59-130		1		10/21/14 15:21	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		10/21/14 15:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/21/14 15:21	2037-26-5	

Sample: MW-1B      Lab ID: 40105148009      Collected: 10/06/14 00:00      Received: 10/11/14 08:30      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b> Analytical Method:									
Static Water Level	925.13	feet			1		10/06/14 00:00		

Sample: P-401D      Lab ID: 40105148010      Collected: 10/06/14 00:00      Received: 10/18/14 08:45      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b> Analytical Method:									
Static Water Level	851.95	feet			1		10/06/14 00:00		

Sample: P-402E      Lab ID: 40105148011      Collected: 10/06/14 00:00      Received: 10/18/14 08:45      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b> Analytical Method:									
Static Water Level	851.93	feet			1		10/06/14 00:00		

Sample: P-422B      Lab ID: 40105148012      Collected: 10/06/14 00:00      Received: 10/11/14 08:30      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b> Analytical Method:									
Static Water Level	925.69	feet			1		10/06/14 00:00		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:

Static Water Level	<b>850.24</b>	feet			1		10/06/14 00:00		
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:

Static Water Level	<b>850.69</b>	feet			1		10/06/14 00:00		
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:

Static Water Level	<b>850.33</b>	feet			1		10/06/14 00:00		
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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: ICP/9693

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40105148001, 40105148002

METHOD BLANK: 1063418

Matrix: Water

Associated Lab Samples: 40105148001, 40105148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	246J	2000	10/14/14 13:44	

LABORATORY CONTROL SAMPLE: 1063419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32300			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063420 1063421

Parameter	Units	1063420		1063421		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40105037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Total Hardness by 2340B, Dissolved	ug/L	462000			488000	490000			1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

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QC Batch: ICP/9728 Analysis Method: EPA 6010  
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003, 40105529001, 40105529002

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METHOD BLANK: 1067609 Matrix: Water  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003, 40105529001, 40105529002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	298J	2000	10/21/14 16:00	

LABORATORY CONTROL SAMPLE: 1067610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32000			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1067611 1067612

Parameter	Units	40105480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	424000			446000	443000				1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: MSV/26158 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40105148001, 40105148002

METHOD BLANK: 1063279 Matrix: Water

Associated Lab Samples: 40105148001, 40105148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/15/14 13:28	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	10/15/14 13:28	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/15/14 13:28	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/15/14 13:28	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/15/14 13:28	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	10/15/14 13:28	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/15/14 13:28	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/15/14 13:28	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/15/14 13:28	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/15/14 13:28	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/15/14 13:28	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/15/14 13:28	
Acetone	ug/L	<3.0	20.0	10/15/14 13:28	
Benzene	ug/L	<0.50	1.0	10/15/14 13:28	
Bromodichloromethane	ug/L	<0.50	1.0	10/15/14 13:28	
Bromoform	ug/L	<0.50	1.0	10/15/14 13:28	
Bromomethane	ug/L	<2.4	5.0	10/15/14 13:28	
Carbon disulfide	ug/L	<0.61	5.0	10/15/14 13:28	
Carbon tetrachloride	ug/L	<0.50	1.0	10/15/14 13:28	
Chlorobenzene	ug/L	<0.50	1.0	10/15/14 13:28	
Chloroethane	ug/L	<0.37	1.0	10/15/14 13:28	
Chloroform	ug/L	<2.5	5.0	10/15/14 13:28	
Chloromethane	ug/L	<0.50	1.0	10/15/14 13:28	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/15/14 13:28	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/15/14 13:28	
Dibromochloromethane	ug/L	<0.50	1.0	10/15/14 13:28	
Dibromomethane	ug/L	<0.43	1.0	10/15/14 13:28	
Dichlorodifluoromethane	ug/L	<0.20	1.0	10/15/14 13:28	
Ethylbenzene	ug/L	<0.50	1.0	10/15/14 13:28	
m&p-Xylene	ug/L	<1.0	2.0	10/15/14 13:28	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/15/14 13:28	
Methylene Chloride	ug/L	<0.23	1.0	10/15/14 13:28	
Naphthalene	ug/L	<2.5	5.0	10/15/14 13:28	
o-Xylene	ug/L	<0.50	1.0	10/15/14 13:28	
Styrene	ug/L	<0.50	1.0	10/15/14 13:28	
Tetrachloroethene	ug/L	<0.50	1.0	10/15/14 13:28	
Tetrahydrofuran	ug/L	<2.0	5.0	10/15/14 13:28	
Toluene	ug/L	<0.50	1.0	10/15/14 13:28	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/15/14 13:28	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/15/14 13:28	
Trichloroethene	ug/L	<0.33	1.0	10/15/14 13:28	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

METHOD BLANK: 1063279

Matrix: Water

Associated Lab Samples: 40105148001, 40105148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.17	1.0	10/15/14 13:28	
Vinyl chloride	ug/L	<0.18	1.0	10/15/14 13:28	
4-Bromofluorobenzene (S)	%	85	59-130	10/15/14 13:28	
Dibromofluoromethane (S)	%	112	70-130	10/15/14 13:28	
Toluene-d8 (S)	%	100	70-130	10/15/14 13:28	

LABORATORY CONTROL SAMPLE & LCSD: 1063280

1063281

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.3	51.5	107	103	70-130	3	20	
1,1,2-Trichloroethane	ug/L	50	52.8	51.6	106	103	70-130	2	20	
1,1-Dichloroethane	ug/L	50	53.1	52.0	106	104	70-130	2	20	
1,1-Dichloroethene	ug/L	50	54.7	53.3	109	107	70-132	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	52.4	104	105	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	48.8	102	98	70-130	5	20	
1,2-Dichlorobenzene	ug/L	50	52.2	52.4	104	105	70-130	0	20	
1,2-Dichloroethane	ug/L	50	53.7	51.7	107	103	70-130	4	20	
1,2-Dichloropropane	ug/L	50	58.9	56.7	118	113	70-130	4	20	
1,3-Dichlorobenzene	ug/L	50	50.0	50.7	100	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	52.1	52.5	104	105	70-130	1	20	
Benzene	ug/L	50	53.3	51.7	107	103	70-130	3	20	
Bromodichloromethane	ug/L	50	55.0	53.1	110	106	70-130	3	20	
Bromoform	ug/L	50	59.4	59.3	119	119	70-130	0	20	
Bromomethane	ug/L	50	49.9	51.2	100	102	34-157	3	20	
Carbon disulfide	ug/L	50	60.4	58.0	121	116	70-137	4	20	
Carbon tetrachloride	ug/L	50	54.7	54.4	109	109	70-132	1	20	
Chlorobenzene	ug/L	50	54.7	52.5	109	105	70-130	4	20	
Chloroethane	ug/L	50	57.6	58.0	115	116	60-143	1	20	
Chloroform	ug/L	50	49.7	48.7	99	97	70-130	2	20	
Chloromethane	ug/L	50	46.1	45.8	92	92	43-148	1	20	
cis-1,2-Dichloroethene	ug/L	50	46.3	46.5	93	93	51-133	0	20	
cis-1,3-Dichloropropene	ug/L	50	52.6	51.1	105	102	70-130	3	20	
Dibromochloromethane	ug/L	50	52.7	50.2	105	100	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	34.5	29.8	69	60	10-174	15	20	
Ethylbenzene	ug/L	50	59.0	58.0	118	116	70-130	2	20	
m&p-Xylene	ug/L	100	124	119	124	119	70-131	4	20	
Methyl-tert-butyl ether	ug/L	50	45.8	43.8	92	88	54-139	4	20	
Methylene Chloride	ug/L	50	68.9	63.7	138	127	70-130	8	20	LO
o-Xylene	ug/L	50	60.2	57.7	120	115	70-130	4	20	
Styrene	ug/L	50	59.4	56.8	119	114	70-130	4	20	
Tetrachloroethene	ug/L	50	54.0	51.1	108	102	70-130	5	20	
Toluene	ug/L	50	54.9	52.7	110	105	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	52.7	52.3	105	105	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	46.9	45.9	94	92	70-130	2	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

LABORATORY CONTROL SAMPLE & LCSD: 1063280

1063281

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Trichloroethene	ug/L	50	55.4	52.8	111	106	70-130	5	20	
Trichlorofluoromethane	ug/L	50	56.8	56.7	114	113	50-150	0	20	
Vinyl chloride	ug/L	50	50.5	50.7	101	101	59-157	0	20	
4-Bromofluorobenzene (S)	%				119	117	59-130			
Dibromofluoromethane (S)	%				100	99	70-130			
Toluene-d8 (S)	%				99	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063300

1063301

Parameter	Units	40105062008		MSD		MSD		% Rec		Max		Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	Limits	RPD	RPD	
1,1,1-Trichloroethane	ug/L	<0.50	50	50	52.0	51.3	104	103	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.16	50	50	52.9	49.8	106	100	70-130	6	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	52.4	51.0	105	102	70-130	3	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	56.2	52.1	112	104	70-138	8	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	50.3	51.8	101	104	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	51.0	47.7	102	95	70-130	7	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.0	50.6	102	101	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.0	50.6	104	101	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	57.4	54.1	115	108	70-130	6	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.4	48.4	99	97	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.8	51.5	104	103	70-130	1	20	
Benzene	ug/L	<0.50	50	50	52.4	50.9	105	102	70-130	3	20	
Bromodichloromethane	ug/L	<0.50	50	50	54.1	50.6	108	101	70-130	7	20	
Bromoform	ug/L	<0.50	50	50	56.6	50.1	113	100	70-130	12	20	
Bromomethane	ug/L	<2.4	50	50	51.8	52.3	104	105	34-159	1	20	
Carbon disulfide	ug/L	<0.61	50	50	58.8	49.4	118	99	68-142	17	25	
Carbon tetrachloride	ug/L	<0.50	50	50	53.9	52.6	108	105	70-132	2	20	
Chlorobenzene	ug/L	<0.50	50	50	53.2	51.2	106	102	70-130	4	20	
Chloroethane	ug/L	<0.37	50	50	60.9	60.0	122	120	60-143	2	20	
Chloroform	ug/L	<2.5	50	50	47.8	47.8	96	96	70-130	0	20	
Chloromethane	ug/L	<0.50	50	50	47.8	46.2	96	92	43-149	4	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.6	46.5	93	93	48-137	0	33	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.5	48.7	103	97	70-130	6	20	
Dibromochloromethane	ug/L	<0.50	50	50	49.9	46.4	100	93	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.20	50	50	30.1	31.7	60	63	10-174	5	20	
Ethylbenzene	ug/L	<0.50	50	50	58.2	54.3	116	109	70-130	7	20	
m&p-Xylene	ug/L	<1.0	100	100	117	104	117	104	70-135	13	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	45.4	43.5	91	87	54-139	4	20	
Methylene Chloride	ug/L	<0.23	50	50	69.3	65.7	139	131	70-133	5	20	M0
o-Xylene	ug/L	<0.50	50	50	58.5	50.6	117	101	70-130	14	20	
Styrene	ug/L	<0.50	50	50	53.7	38.3	107	77	70-130	33	20	R1
Tetrachloroethene	ug/L	<0.50	50	50	51.9	49.3	104	99	70-130	5	20	
Toluene	ug/L	<0.50	50	50	53.0	49.2	106	98	70-130	7	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063300		1063301		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40105062008 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.3	50.7	103	101	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.4	43.5	93	87	70-130	7	20		
Trichloroethene	ug/L	<0.33	50	50	52.4	50.0	105	100	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.17	50	50	56.6	55.6	113	111	50-150	2	20		
Vinyl chloride	ug/L	<0.18	50	50	52.9	51.5	106	103	59-158	3	20		
4-Bromofluorobenzene (S)	%						117	113	59-130				
Dibromofluoromethane (S)	%						99	101	70-130				
Toluene-d8 (S)	%						99	95	70-130				

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: MSV/26225 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40105480001, 40105480002, 40105480003

METHOD BLANK: 1066736 Matrix: Water

Associated Lab Samples: 40105480001, 40105480002, 40105480003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/20/14 16:35	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	10/20/14 16:35	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/20/14 16:35	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/20/14 16:35	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/20/14 16:35	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	10/20/14 16:35	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/20/14 16:35	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/20/14 16:35	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/20/14 16:35	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/20/14 16:35	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/20/14 16:35	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/20/14 16:35	
Acetone	ug/L	<3.0	20.0	10/20/14 16:35	
Benzene	ug/L	<0.50	1.0	10/20/14 16:35	
Bromodichloromethane	ug/L	<0.50	1.0	10/20/14 16:35	
Bromoform	ug/L	<0.50	1.0	10/20/14 16:35	
Bromomethane	ug/L	<2.4	5.0	10/20/14 16:35	
Carbon disulfide	ug/L	<0.61	5.0	10/20/14 16:35	
Carbon tetrachloride	ug/L	<0.50	1.0	10/20/14 16:35	
Chlorobenzene	ug/L	<0.50	1.0	10/20/14 16:35	
Chloroethane	ug/L	<0.37	1.0	10/20/14 16:35	
Chloroform	ug/L	<2.5	5.0	10/20/14 16:35	
Chloromethane	ug/L	<0.50	1.0	10/20/14 16:35	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/20/14 16:35	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/20/14 16:35	
Dibromochloromethane	ug/L	<0.50	1.0	10/20/14 16:35	
Dibromomethane	ug/L	<0.43	1.0	10/20/14 16:35	
Dichlorodifluoromethane	ug/L	<0.20	1.0	10/20/14 16:35	
Ethylbenzene	ug/L	<0.50	1.0	10/20/14 16:35	
m&p-Xylene	ug/L	<1.0	2.0	10/20/14 16:35	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/20/14 16:35	
Methylene Chloride	ug/L	<0.23	1.0	10/20/14 16:35	
Naphthalene	ug/L	<2.5	5.0	10/20/14 16:35	
o-Xylene	ug/L	<0.50	1.0	10/20/14 16:35	
Styrene	ug/L	<0.50	1.0	10/20/14 16:35	
Tetrachloroethane	ug/L	<0.50	1.0	10/20/14 16:35	
Tetrahydrofuran	ug/L	<2.0	5.0	10/20/14 16:35	
Toluene	ug/L	<0.50	1.0	10/20/14 16:35	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/20/14 16:35	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/20/14 16:35	
Trichloroethene	ug/L	<0.33	1.0	10/20/14 16:35	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

METHOD BLANK: 1066736

Matrix: Water

Associated Lab Samples: 40105480001, 40105480002, 40105480003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.17	1.0	10/20/14 16:35	
Vinyl chloride	ug/L	<0.18	1.0	10/20/14 16:35	
4-Bromofluorobenzene (S)	%	90	59-130	10/20/14 16:35	
Dibromofluoromethane (S)	%	104	70-130	10/20/14 16:35	
Toluene-d8 (S)	%	99	70-130	10/20/14 16:35	

LABORATORY CONTROL SAMPLE & LCSD: 1066737

1066738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.0	57.9	114	116	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	53.9	52.2	108	104	70-130	3	20	
1,1-Dichloroethane	ug/L	50	54.1	53.5	108	107	70-130	1	20	
1,1-Dichloroethene	ug/L	50	53.5	54.3	107	109	70-132	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	47.5	47.3	95	95	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	54.4	109	109	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	53.0	52.3	106	105	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.8	52.5	108	105	70-130	2	20	
1,2-Dichloropropane	ug/L	50	52.7	55.4	105	111	70-130	5	20	
1,3-Dichlorobenzene	ug/L	50	51.5	52.5	103	105	70-130	2	20	
1,4-Dichlorobenzene	ug/L	50	50.6	51.6	101	103	70-130	2	20	
Benzene	ug/L	50	54.6	53.8	109	108	70-130	1	20	
Bromodichloromethane	ug/L	50	53.0	53.2	106	106	70-130	0	20	
Bromoform	ug/L	50	50.0	49.1	100	98	70-130	2	20	
Bromomethane	ug/L	50	28.9	35.0	58	70	34-157	19	20	
Carbon disulfide	ug/L	50	55.2	53.4	110	107	70-137	3	20	
Carbon tetrachloride	ug/L	50	57.9	58.8	116	118	70-132	1	20	
Chlorobenzene	ug/L	50	53.7	54.7	107	109	70-130	2	20	
Chloroethane	ug/L	50	48.8	48.5	98	97	60-143	1	20	
Chloroform	ug/L	50	52.2	52.3	104	105	70-130	0	20	
Chloromethane	ug/L	50	40.7	43.1	81	86	43-148	6	20	
cis-1,2-Dichloroethene	ug/L	50	53.2	53.5	106	107	51-133	0	20	
cis-1,3-Dichloropropene	ug/L	50	46.7	47.5	93	95	70-130	2	20	
Dibromochloromethane	ug/L	50	54.9	54.5	110	109	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	44.2	42.5	88	85	10-174	4	20	
Ethylbenzene	ug/L	50	58.0	58.7	116	117	70-130	1	20	
m&p-Xylene	ug/L	100	117	119	117	119	70-131	2	20	
Methyl-tert-butyl ether	ug/L	50	53.4	52.8	107	106	54-139	1	20	
Methylene Chloride	ug/L	50	51.1	51.2	102	102	70-130	0	20	
o-Xylene	ug/L	50	52.8	53.6	106	107	70-130	1	20	
Styrene	ug/L	50	53.6	54.0	107	108	70-130	1	20	
Tetrachloroethene	ug/L	50	54.1	54.7	108	109	70-130	1	20	
Toluene	ug/L	50	55.1	55.5	110	111	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	54.9	55.4	110	111	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	46.3	47.6	93	95	70-130	3	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

LABORATORY CONTROL SAMPLE & LCSD: 1066737

1066738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Trichloroethene	ug/L	50	55.4	54.9	111	110	70-130	1	20	
Trichlorofluoromethane	ug/L	50	53.5	52.9	107	106	50-150	1	20	
Vinyl chloride	ug/L	50	48.1	48.5	96	97	59-157	1	20	
4-Bromofluorobenzene (S)	%				103	102	59-130			
Dibromofluoromethane (S)	%				102	100	70-130			
Toluene-d8 (S)	%				98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066897

1066898

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40105473019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	57.0	57.5	114	115	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.16	50	50	52.8	52.6	106	105	70-130	0	20	
1,1-Dichloroethane	ug/L	4.7	50	50	58.8	58.5	108	108	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	53.9	53.9	108	108	70-138	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	46.1	46.8	92	94	50-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	54.5	55.2	109	110	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	52.3	52.3	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.7	53.5	105	107	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	53.4	54.5	107	109	70-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	52.4	52.3	105	105	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.6	50.3	101	101	70-130	1	20	
Benzene	ug/L	<0.50	50	50	54.1	54.1	108	108	70-130	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	54.1	53.8	108	108	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	48.5	48.7	97	97	70-130	0	20	
Bromomethane	ug/L	<2.4	50	50	34.2	36.4	68	73	34-159	6	20	
Carbon disulfide	ug/L	<0.61	50	50	53.8	53.6	108	107	68-142	0	25	
Carbon tetrachloride	ug/L	<0.50	50	50	58.9	59.1	118	118	70-132	0	20	
Chlorobenzene	ug/L	<0.50	50	50	53.5	53.3	107	107	70-130	0	20	
Chloroethane	ug/L	<0.37	50	50	48.4	48.5	97	97	60-143	0	20	
Chloroform	ug/L	<2.5	50	50	52.4	52.5	105	105	70-130	0	20	
Chloromethane	ug/L	<0.50	50	50	41.6	42.2	83	84	43-149	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.4	53.8	107	108	48-137	1	33	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	48.1	47.6	96	95	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	54.1	54.3	108	109	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.20	50	50	40.3	40.3	81	81	10-174	0	20	
Ethylbenzene	ug/L	<0.50	50	50	58.4	57.9	117	116	70-130	1	20	
m&p-Xylene	ug/L	<1.0	100	100	118	117	118	117	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	53.7	54.0	107	108	54-139	0	20	
Methylene Chloride	ug/L	<0.23	50	50	51.0	51.6	102	103	70-133	1	20	
o-Xylene	ug/L	<0.50	50	50	53.0	52.6	106	105	70-130	1	20	
Styrene	ug/L	<0.50	50	50	53.5	52.8	107	106	70-130	1	20	
Tetrachloroethene	ug/L	0.76J	50	50	54.4	55.0	107	109	70-130	1	20	
Toluene	ug/L	<0.50	50	50	54.9	54.9	110	110	70-130	0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066897		1066898		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40105473019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.1	55.5	110	111	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.3	47.9	95	96	70-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	56.1	55.5	112	111	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.17	50	50	52.8	53.2	106	106	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	48.1	48.5	96	97	59-158	1	20		
4-Bromofluorobenzene (S)	%						104	103	59-130				
Dibromofluoromethane (S)	%						101	101	70-130				
Toluene-d8 (S)	%						98	98	70-130				

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: MSV/26227 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40105529001, 40105529002, 40105529003

METHOD BLANK: 1066746 Matrix: Water

Associated Lab Samples: 40105529001, 40105529002, 40105529003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/21/14 06:10	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	10/21/14 06:10	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/21/14 06:10	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/21/14 06:10	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/21/14 06:10	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	10/21/14 06:10	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/21/14 06:10	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/21/14 06:10	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/21/14 06:10	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/21/14 06:10	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/21/14 06:10	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/21/14 06:10	
Acetone	ug/L	<3.0	20.0	10/21/14 06:10	
Benzene	ug/L	<0.50	1.0	10/21/14 06:10	
Bromodichloromethane	ug/L	<0.50	1.0	10/21/14 06:10	
Bromoform	ug/L	<0.50	1.0	10/21/14 06:10	
Bromomethane	ug/L	<2.4	5.0	10/21/14 06:10	
Carbon disulfide	ug/L	<0.61	5.0	10/21/14 06:10	
Carbon tetrachloride	ug/L	<0.50	1.0	10/21/14 06:10	
Chlorobenzene	ug/L	<0.50	1.0	10/21/14 06:10	
Chloroethane	ug/L	<0.37	1.0	10/21/14 06:10	
Chloroform	ug/L	<2.5	5.0	10/21/14 06:10	
Chloromethane	ug/L	<0.50	1.0	10/21/14 06:10	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/21/14 06:10	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/21/14 06:10	
Dibromochloromethane	ug/L	<0.50	1.0	10/21/14 06:10	
Dibromomethane	ug/L	<0.43	1.0	10/21/14 06:10	
Dichlorodifluoromethane	ug/L	<0.20	1.0	10/21/14 06:10	
Ethylbenzene	ug/L	<0.50	1.0	10/21/14 06:10	
m&p-Xylene	ug/L	<1.0	2.0	10/21/14 06:10	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/21/14 06:10	
Methylene Chloride	ug/L	<0.23	1.0	10/21/14 06:10	
Naphthalene	ug/L	<2.5	5.0	10/21/14 06:10	
o-Xylene	ug/L	<0.50	1.0	10/21/14 06:10	
Styrene	ug/L	<0.50	1.0	10/21/14 06:10	
Tetrachloroethane	ug/L	<0.50	1.0	10/21/14 06:10	
Tetrahydrofuran	ug/L	<2.0	5.0	10/21/14 06:10	
Toluene	ug/L	<0.50	1.0	10/21/14 06:10	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/21/14 06:10	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/21/14 06:10	
Trichloroethene	ug/L	<0.33	1.0	10/21/14 06:10	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

METHOD BLANK: 1066746

Matrix: Water

Associated Lab Samples: 40105529001, 40105529002, 40105529003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.17	1.0	10/21/14 06:10	
Vinyl chloride	ug/L	<0.18	1.0	10/21/14 06:10	
4-Bromofluorobenzene (S)	%	83	59-130	10/21/14 06:10	
Dibromofluoromethane (S)	%	112	70-130	10/21/14 06:10	
Toluene-d8 (S)	%	98	70-130	10/21/14 06:10	

LABORATORY CONTROL SAMPLE & LCSD: 1066747

1066748

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	51.1	103	102	70-130	1	20	
1,1,2-Trichloroethane	ug/L	50	51.1	50.7	102	101	70-130	1	20	
1,1-Dichloroethane	ug/L	50	49.8	48.9	100	98	70-130	2	20	
1,1-Dichloroethene	ug/L	50	53.1	50.9	106	102	70-132	4	20	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	53.3	111	107	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	50.1	103	100	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	52.9	53.3	106	107	70-130	1	20	
1,2-Dichloroethane	ug/L	50	51.5	49.1	103	98	70-130	5	20	
1,2-Dichloropropane	ug/L	50	57.2	54.5	114	109	70-130	5	20	
1,3-Dichlorobenzene	ug/L	50	51.0	51.7	102	103	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	52.0	52.6	104	105	70-130	1	20	
Benzene	ug/L	50	52.2	50.3	104	101	70-130	4	20	
Bromodichloromethane	ug/L	50	55.4	54.4	111	109	70-130	2	20	
Bromoform	ug/L	50	56.7	56.3	113	113	70-130	1	20	
Bromomethane	ug/L	50	50.8	50.8	102	102	34-157	0	20	
Carbon disulfide	ug/L	50	60.0	56.8	120	114	70-137	5	20	
Carbon tetrachloride	ug/L	50	53.6	54.0	107	108	70-132	1	20	
Chlorobenzene	ug/L	50	54.8	53.9	110	108	70-130	2	20	
Chloroethane	ug/L	50	61.5	58.2	123	116	60-143	6	20	
Chloroform	ug/L	50	49.1	48.2	98	96	70-130	2	20	
Chloromethane	ug/L	50	49.6	47.9	99	96	43-148	3	20	
cis-1,2-Dichloroethene	ug/L	50	46.4	44.9	93	90	51-133	3	20	
cis-1,3-Dichloropropene	ug/L	50	51.2	50.2	102	100	70-130	2	20	
Dibromochloromethane	ug/L	50	53.0	51.9	106	104	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	39.4	43.3	79	87	10-174	10	20	
Ethylbenzene	ug/L	50	57.6	55.4	115	111	70-130	4	20	
m&p-Xylene	ug/L	100	124	119	124	119	70-131	4	20	
Methyl-tert-butyl ether	ug/L	50	41.4	41.4	83	83	54-139	0	20	
Methylene Chloride	ug/L	50	67.2	64.6	134	129	70-130	4	20 LO	
o-Xylene	ug/L	50	59.8	58.4	120	117	70-130	2	20	
Styrene	ug/L	50	60.2	58.3	120	117	70-130	3	20	
Tetrachloroethene	ug/L	50	54.5	53.5	109	107	70-130	2	20	
Toluene	ug/L	50	54.6	52.3	109	105	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	51.4	51.0	103	102	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	45.0	43.1	90	86	70-130	4	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

LABORATORY CONTROL SAMPLE & LCSD:		1066747		1066748							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	55.6	54.8	111	110	70-130	1	20		
Trichlorofluoromethane	ug/L	50	55.2	53.8	110	108	50-150	2	20		
Vinyl chloride	ug/L	50	51.4	50.4	103	101	59-157	2	20		
4-Bromofluorobenzene (S)	%				108	112	59-130				
Dibromofluoromethane (S)	%				97	96	70-130				
Toluene-d8 (S)	%				99	97	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1067593		1067594									
Parameter	Units	40105545003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
1,1,1-Trichloroethane	ug/L	<0.50	50	50	52.2	49.6	104	99	70-130	5	20		
1,1,2-Trichloroethane	ug/L	<0.16	50	50	51.3	48.1	103	96	70-130	6	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	53.3	48.1	107	96	70-130	10	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	52.7	51.2	105	102	70-138	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	55.1	50.9	110	102	50-150	8	20		
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	51.0	47.3	102	95	70-130	7	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.2	51.1	106	102	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	50.0	47.5	100	95	70-130	5	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	55.0	53.0	110	106	70-130	4	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	52.4	50.0	105	100	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	53.3	51.3	107	103	70-130	4	20		
Benzene	ug/L	<0.50	50	50	50.9	48.0	102	96	70-130	6	20		
Bromodichloromethane	ug/L	<0.50	50	50	53.4	50.9	107	102	70-130	5	20		
Bromoform	ug/L	<0.50	50	50	58.2	51.4	116	103	70-130	13	20		
Bromomethane	ug/L	<2.4	50	50	53.8	51.0	108	102	34-159	5	20		
Carbon disulfide	ug/L	<0.61	50	50	56.8	47.1	114	94	68-142	19	25		
Carbon tetrachloride	ug/L	<0.50	50	50	55.6	51.8	111	104	70-132	7	20		
Chlorobenzene	ug/L	<0.50	50	50	53.6	50.7	107	101	70-130	6	20		
Chloroethane	ug/L	<0.37	50	50	56.6	56.8	113	114	60-143	0	20		
Chloroform	ug/L	<2.5	50	50	48.6	46.1	97	92	70-130	5	20		
Chloromethane	ug/L	<0.50	50	50	46.8	44.6	94	89	43-149	5	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.2	44.7	92	89	48-137	3	33		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.5	45.4	101	91	70-130	11	20		
Dibromochloromethane	ug/L	<0.50	50	50	52.2	47.6	104	95	70-130	9	20		
Dichlorodifluoromethane	ug/L	<0.20	50	50	41.9	43.8	84	88	10-174	4	20		
Ethylbenzene	ug/L	<0.50	50	50	55.9	53.1	112	106	70-130	5	20		
m&p-Xylene	ug/L	<1.0	100	100	120	114	120	114	70-135	5	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	43.5	40.5	87	81	54-139	7	20		
Methylene Chloride	ug/L	<0.23	50	50	63.2	62.7	126	125	70-133	1	20		
o-Xylene	ug/L	<0.50	50	50	57.1	53.9	114	108	70-130	6	20		
Styrene	ug/L	<0.50	50	50	55.1	52.9	110	106	70-130	4	20		
Tetrachloroethene	ug/L	<0.50	50	50	54.0	51.2	108	102	70-130	5	20		
Toluene	ug/L	<0.50	50	50	53.1	50.2	106	100	70-130	6	20		

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Parameter	Units	40105545003		1067593		1067594		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.3	48.5	105	97	70-130	7	20			
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.3	40.8	91	82	70-130	10	20			
Trichloroethene	ug/L	<0.33	50	50	52.9	51.1	106	102	70-130	3	20			
Trichlorofluoromethane	ug/L	<0.17	50	50	56.5	55.1	113	110	50-150	3	20			
Vinyl chloride	ug/L	<0.18	50	50	52.4	51.1	105	102	59-158	2	20			
4-Bromofluorobenzene (S)	%						109	108	59-130					
Dibromofluoromethane (S)	%						100	98	70-130					
Toluene-d8 (S)	%						97	96	70-130					

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25761 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
 Associated Lab Samples: 40105148001, 40105148002

METHOD BLANK: 1068073 Matrix: Water

Associated Lab Samples: 40105148001, 40105148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/22/14 11:51	

LABORATORY CONTROL SAMPLE: 1068074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1068075 1068076

Parameter	Units	40105097001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	10.3	20	20	29.3	29.7	95	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1068077 1068078

Parameter	Units	40105168003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	96.2	100	100	196	196	100	100	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25880 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003

METHOD BLANK: 1072193 Matrix: Water  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/29/14 15:25	

LABORATORY CONTROL SAMPLE: 1072194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072195 1072196

Parameter	Units	40105433024 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	58.6	100	100	156	155	98	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072455 1072456

Parameter	Units	40105497003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	18.4	20	20	38.6	38.7	101	101	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25888 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
 Associated Lab Samples: 40105529001, 40105529002

METHOD BLANK: 1072568 Matrix: Water

Associated Lab Samples: 40105529001, 40105529002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/31/14 09:28	

LABORATORY CONTROL SAMPLE: 1072569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072570 1072571

Parameter	Units	40105497011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	58.9	100	100	153	152	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072572 1072573

Parameter	Units	40105597008 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	156	200	200	351	343	97	93	90-110	2	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25698 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40105148001, 40105148002

METHOD BLANK: 1066853 Matrix: Water

Associated Lab Samples: 40105148001, 40105148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/21/14 09:40	

LABORATORY CONTROL SAMPLE: 1066854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	96.5	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066855 1066856

Parameter	Units	40105139001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	433	500	500	906	892	95	92	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066857 1066858

Parameter	Units	40105143001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	292	500	500	742	752	90	92	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25829 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003

METHOD BLANK: 1070987 Matrix: Water  
 Associated Lab Samples: 40105480001, 40105480002, 40105480003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/28/14 08:35	

LABORATORY CONTROL SAMPLE: 1070988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1070989 1070990

Parameter	Units	40105400017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	47.3	100	100	123	119	76	72	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1070991 1070992

Parameter	Units	40105480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	358	500	500	862	834	101	95	90-110	3	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

QC Batch: WETA/25830 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40105529001, 40105529002

METHOD BLANK: 1070996 Matrix: Water

Associated Lab Samples: 40105529001, 40105529002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/28/14 08:54	

LABORATORY CONTROL SAMPLE: 1070997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	97.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1070998 1070999

Parameter	Units	40105497007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	371	500	500	892	928	104	111	90-110	4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1071000 1071001

Parameter	Units	40105628001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	100	100	105	104	100	99	90-110	1	20	

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## QUALIFIERS

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION OCT 2014

Pace Project No.: 40105148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40105148001	MW-1B	EPA 6010	ICP/9693		
40105148002	P-422B	EPA 6010	ICP/9693		
40105480001	P-424D	EPA 6010	ICP/9728		
40105480002	P-424SS	EPA 6010	ICP/9728		
40105480003	P-423D	EPA 6010	ICP/9728		
40105529001	P-401D	EPA 6010	ICP/9728		
40105529002	P-402E	EPA 6010	ICP/9728		
40105148001	MW-1B	EPA 8260	MSV/26158		
40105148002	P-422B	EPA 8260	MSV/26158		
40105480001	P-424D	EPA 8260	MSV/26225		
40105480002	P-424SS	EPA 8260	MSV/26225		
40105480003	P-423D	EPA 8260	MSV/26225		
40105529001	P-401D	EPA 8260	MSV/26227		
40105529002	P-402E	EPA 8260	MSV/26227		
40105529003	TRIP BLANK	EPA 8260	MSV/26227		
40105148001	MW-1B		PM/		
40105148002	P-422B		PM/		
40105480001	P-424D		PM/		
40105480002	P-424SS		PM/		
40105480003	P-423D		PM/		
40105529001	P-401D		PM/		
40105529002	P-402E		PM/		
40105148009	MW-1B		PM/		
40105148010	P-401D		PM/		
40105148011	P-402E		PM/		
40105148012	P-422B		PM/		
40105148013	P-423D		PM/		
40105148014	P-424D		PM/		
40105148015	P-424SS		PM/		
40105148001	MW-1B	EPA 300.0	WETA/25761		
40105148002	P-422B	EPA 300.0	WETA/25761		
40105480001	P-424D	EPA 300.0	WETA/25880		
40105480002	P-424SS	EPA 300.0	WETA/25880		
40105480003	P-423D	EPA 300.0	WETA/25880		
40105529001	P-401D	EPA 300.0	WETA/25888		
40105529002	P-402E	EPA 300.0	WETA/25888		
40105148001	MW-1B	EPA 310.2	WETA/25698		
40105148002	P-422B	EPA 310.2	WETA/25698		
40105480001	P-424D	EPA 310.2	WETA/25829		
40105480002	P-424SS	EPA 310.2	WETA/25829		
40105480003	P-423D	EPA 310.2	WETA/25829		
40105529001	P-401D	EPA 310.2	WETA/25830		
40105529002	P-402E	EPA 310.2	WETA/25830		

### 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.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
ADS Glacier Ridge		Report To: Same		Attention: Same	
N7296 Hwy V		Copy To: Frank Pengrini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGRL GW001		Pace Quote Reference:	
Phone:		Project Number: <i>Investigation</i>		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Project Number: 3707		Pace Profile #: 3707	

ITEM #	Section D Required Client Information SAMPLE ID One Character per box (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Matrix Codes WATER WASTE WATER PRODUCT SOIL/SOLID WIFE AIR OTHER ISSUE	CODE BY WW P SL WP WR AR OT IS	COLLECTED		# OF CONTAINERS	PRESERVATIVES HCL HCL HNO3	Requested Analyte	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
				COMPOSITE START DATE	COMPOSITE END/GRAB DATE						
1	MW-16 3-40, 10, 8 2-250, 10, 8 AD			10/10/14 1150	150	5	1P3 H	X	N		001
2	P-422B ↓			10/10/14 1155	136	5	1P3 H	X	N		002
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

**Additional Comments:** \*\* NO VOCS - MW-6R, MW-7R, MW-203A, DUP-02

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	10/11/14	0830	<i>[Signature]</i>	10/11/14	0830	Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N
<i>[Signature]</i>	10/11/14	0830	<i>[Signature]</i>	10/11/14	0830	Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Scott Bergmark*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): 10/10/14

Sample Condition Upon Receipt

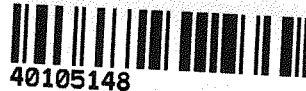
Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302



Client Name: ADS Glacier

Project #:

WO#: **40105148**



Courier:  Fed Ex  UPS  Client  Pace Other: Dunham  
Tracking #: 865613

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used

NA

Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R071 Corr:

Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:

Date: 10-11-14

Initials: KB

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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	
(HNO <sub>3</sub> ) H <sub>2</sub> SO <sub>4</sub> ≤ 2; NaOH + ZnAct ≥ 9, NaOH ≥ 12		<input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
exceptions: VOA, Coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>KB</u> Lab Std #ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

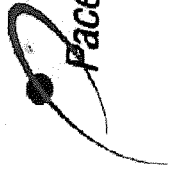
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

If checked, see attached form for additional comments

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: Che

Date: 10/17/14



**Pace Analytical™**  
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40105529

<b>Section A</b> Required Client Information: ADS Glacier Ridge N7296 Hwy V Horton, WI 53032 Email To: Tim Curry - ADS Phone: _____ Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: Same Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng. Sheren Clark - SCS Eng Purchase Order No.: _____ Project Name: LGRL Investigation Wells Project Number: _____		<b>Section C</b> Invoice Information: Attention: Same Company Name: Address: Pace Quote Reference: Pace Project Manager: Cindy Varga Pace Profile #: 3707	
---	--	---	--	--	--

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

**SITE**  
 GA  IL  IN  MI  NC  
**LOCATION**  
 OH  SC  WI  OTHER

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX: DRINKING WATER (DW), WATER (WT), WASTE WATER (WW), WASTEWATER (WWT), SOIL/SOLID (SL), OIL (OL), WASTE (WP), WASTE WATER (WWT), OTHER (OT), TISSUE (TS)	COLLECTED		# OF CONTAINERS	PRESERVATIVES Nitric 1 3 1 HCL 1 3 1 Unpreserved	SAMPLER TEMP AT COLLECTION	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			MATRIX CODE	SAMPLE TYPE							
1	P-40 LP		W6	W6	5		124	14/14/05	124	14/14/05	Received on Ice Custody Sealed Cooler Temp in °C
2	P-40 BK		W6	W6	5		116	14/14/05	116	14/14/05	Received on Ice Custody Sealed Cooler Temp in °C
3	Trip Blanks										Received on Ice Custody Sealed Cooler Temp in °C
4											Received on Ice Custody Sealed Cooler Temp in °C
5											Received on Ice Custody Sealed Cooler Temp in °C
6											Received on Ice Custody Sealed Cooler Temp in °C
7											Received on Ice Custody Sealed Cooler Temp in °C
8											Received on Ice Custody Sealed Cooler Temp in °C
9											Received on Ice Custody Sealed Cooler Temp in °C
10											Received on Ice Custody Sealed Cooler Temp in °C
11											Received on Ice Custody Sealed Cooler Temp in °C
12											Received on Ice Custody Sealed Cooler Temp in °C

**Additional Comments:**

RELINQUISHED BY / AFFILIATION: *[Signature]*  
 DATE: *14/14/05*  
 TIME: *124*

ACCEPTED BY / AFFILIATION: *[Signature]*  
 DATE: *14/14/05*  
 TIME: *116*

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: *[Signature]*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): *10/17/14*

# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302



Client Name: ADS Glacier Ridge

Project #: **WO#: 40105529**

Courier:  Fed Ex  UPS  Client  Pace Other: Dunham

Tracking #: 6594832



Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: NA    Type of Ice:  Wet  Blue  Dry  None     Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 20E / Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:  
Date: 10/16/14  
Initials: SB

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
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	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>1 vial broke - 001+002 SB 10/16/14</u>
Filtered volume received for Dissolved tests <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>002-ID = P-402E SB 10/16/14</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, NaOH + ZnAct ≥ 9, NaOH ≥ 12) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SB</u> Lab Std #/ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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): <u>308</u>	

**Client Notification/ Resolution:** \_\_\_\_\_    If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_    Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

**Project Manager Review:** CW    Date: 10/20/14

June 03, 2015

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

RE: Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

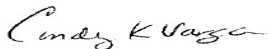
Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between April 16, 2015 and May 13, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised report is report the re-anlaysis results for 6020 metals on MW-201A, MW-210, MW-210B, MW-214, MW-214A, MW-8R, MW-203A, MW-6R, MW-6R DUP, W-3R and W-3AR.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Tim Curry, Advanced Disposal Services  
Frank Perugini, ESC (Environmental Sampling Corp)  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40113304001	MW-210A	Water	04/16/15 12:25	04/17/15 07:50
40113304002	MW-210	Water	04/16/15 12:05	04/17/15 07:50
40113304003	MW-210B	Water	04/16/15 13:00	04/17/15 07:50
40113304004	MW-214	Water	04/16/15 11:15	04/17/15 07:50
40113304005	MW-214A	Water	04/16/15 11:30	04/17/15 07:50
40113304006	MW-8R	Water	04/16/15 09:45	04/17/15 07:50
40113304007	MW-203A	Water	04/16/15 10:30	04/17/15 07:50
40113304008	MW-6R	Water	04/16/15 10:25	04/17/15 07:50
40113304009	MW-6R DUP 01	Water	04/16/15 10:25	04/17/15 07:50
40113304010	TRIP BLANK	Water	04/16/15 00:00	04/17/15 07:50
40113341001	MW-1RR	Water	04/16/15 14:25	04/17/15 07:50
40113341002	MW-1AR	Water	04/16/15 14:55	04/17/15 07:50
40113341003	TRIP BLANK	Water	04/16/15 00:00	04/17/15 07:50
40113419001	W-3R	Water	04/17/15 09:15	04/18/15 08:50
40113419002	W-3AR	Water	04/17/15 09:25	04/18/15 08:50
40113420001	MW-7R	Water	04/17/15 08:45	04/18/15 08:50
40113420002	W-163	Water	04/17/15 09:00	04/18/15 08:50
40113420003	W-163A	Water	04/17/15 09:15	04/18/15 08:50
40113420004	W-163A DUP 02	Water	04/17/15 09:15	04/18/15 08:50
40113420005	TRIP BLANK	Water	04/17/15 00:00	04/18/15 08:50
40113421001	MW-1B	Water	04/17/15 09:50	04/18/15 08:50
40113421002	P-422B	Water	04/17/15 10:10	04/18/15 08:50
40113421003	P-402E	Water	04/17/15 10:40	04/18/15 08:50
40113421004	P-401D	Water	04/17/15 11:35	04/18/15 08:50
40113421005	P-423D	Water	04/17/15 12:50	04/18/15 08:50
40113421006	P-424D	Water	04/17/15 13:40	04/18/15 08:50
40113421007	P-424SS	Water	04/17/15 14:55	04/18/15 08:50
40113421008	TRIP BLANK	Water	04/17/15 00:00	04/18/15 08:50
40113217001	GAS CONDENSATE TANK	Water	04/15/15 14:30	04/16/15 07:35
40113217002	TRIP BLANK	Water	04/15/15 00:00	04/16/15 07:35
40113304031	MW-8R	Water	04/13/15 00:00	05/13/15 19:32
40113304032	MW-203A	Water	04/13/15 00:00	05/13/15 19:32
40113304033	MW-6R	Water	04/13/15 00:00	05/13/15 19:32
40113304034	MW-7R	Water	04/13/15 00:00	05/13/15 19:32
40113304035	MW-201	Water	04/13/15 00:00	05/13/15 19:32
40113304036	MW-201	Water	04/17/15 15:20	05/13/15 19:32
40113304037	MW-201A	Water	04/13/15 00:00	05/13/15 19:32

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40113304038	MW-201A	Water	04/17/15 15:05	05/13/15 19:32
40113304039	MW-201B	Water	04/13/15 00:00	05/13/15 19:32
40113304040	MW-201B	Water	04/17/15 15:15	05/13/15 19:32
40113304041	W-163	Water	04/13/15 00:00	05/13/15 19:32
40113304042	W-163A	Water	04/13/15 00:00	05/13/15 19:32
40113304043	MW-210A	Water	04/13/15 00:00	05/13/15 19:32
40113304044	MW-210	Water	04/13/15 00:00	05/13/15 19:32
40113304045	MW-210B	Water	04/13/15 00:00	05/13/15 19:32
40113304046	MW-214	Water	04/13/15 00:00	05/13/15 19:32
40113304047	MW-214A	Water	04/13/15 00:00	05/13/15 19:32
40113304048	W-3R	Water	04/13/15 00:00	05/13/15 19:32
40113304049	W-3AR	Water	04/13/15 00:00	05/13/15 19:32
40113304050	MW-1RR	Water	04/13/15 00:00	05/13/15 19:32
40113304051	MW-1AR	Water	04/13/15 00:00	05/13/15 19:32
40113304052	SW-2	Water	04/13/15 00:00	05/13/15 19:32
40113304053	SW-3	Water	04/13/15 00:00	05/13/15 19:32
40113304054	SW-4	Water	04/13/15 00:00	05/13/15 19:32
40113304055	SW-5	Water	04/13/15 00:00	05/13/15 19:32
40113304056	P-423D	Water	04/13/15 00:00	05/13/15 19:32
40113304057	P-424D	Water	04/13/15 00:00	05/13/15 19:32
40113304058	P-424SS	Water	04/13/15 00:00	05/13/15 19:32
40113304059	P-422B	Water	04/13/15 00:00	05/13/15 19:32
40113304060	MW-1B	Water	04/13/15 00:00	05/13/15 19:32
40113304061	P-401D	Water	04/13/15 00:00	05/13/15 19:32
40113304062	P-402E	Water	04/13/15 00:00	05/13/15 19:32
40113226006	MW-204A	Water	04/15/15 13:00	04/16/15 07:35
40113226007	A-3A	Water	04/15/15 12:35	04/16/15 07:35
40113171081	A-3A	Water	04/13/15 00:00	05/13/15 19:00
40113171082	MW-204A	Water	04/13/15 00:00	05/13/15 19:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40113304001	MW-210A	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113304002	MW-210	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113304003	MW-210B	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113304004	MW-214	EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6020	DS1	2	PASI-G
40113304005	MW-214A		MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
40113304006	MW-8R	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
40113304007	MW-203A	EPA 310.2	DAW	1	PASI-G
		EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113304008	MW-6R	EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6020	DS1	2	PASI-G
40113304009	MW-6R DUP 01		MAT	6	PASI-G
		EPA 6020	DS1	2	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113304010</b>	<b>TRIP BLANK</b>	EPA 8260	LAP	46	PASI-G
<b>40113341001</b>	<b>MW-1RR</b>	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113341002</b>	<b>MW-1AR</b>	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113341003</b>	<b>TRIP BLANK</b>	EPA 8260	LAP	46	PASI-G
<b>40113419001</b>	<b>W-3R</b>	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113419002</b>	<b>W-3AR</b>	EPA 6020	DS1	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113420001</b>	<b>MW-7R</b>	EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113420002</b>	<b>W-163</b>	EPA 6020	DS1	1	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113420003</b>	<b>W-163A</b>	EPA 6020	DS1	1	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40113420004</b>	<b>W-163A DUP 02</b>	EPA 6020	DS1	2	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113420005	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40113421001	MW-1B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421002	P-422B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421003	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421004	P-401D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421005	P-423D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421006	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421007	P-424SS	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113421008	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40113217001	GAS CONDENSATE TANK	EPA 6010	DLB, MMZ	2	PASI-G
		EPA 8260	LAP	46	PASI-G
			MAT	6	PASI-G
		SM 2540D	MLH	1	PASI-G
		SM 5210B	DDY	1	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G
40113217002	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40113304031	MW-8R		MAT	1	PASI-G
40113304032	MW-203A		MAT	1	PASI-G
40113304033	MW-6R		MAT	1	PASI-G
40113304034	MW-7R		MAT	1	PASI-G
40113304035	MW-201		MAT	1	PASI-G
40113304036	MW-201		MAT	6	PASI-G
40113304037	MW-201A		MAT	1	PASI-G
40113304038	MW-201A		MAT	6	PASI-G
40113304039	MW-201B		MAT	1	PASI-G
40113304040	MW-201B		MAT	6	PASI-G
40113304041	W-163		MAT	1	PASI-G
40113304042	W-163A		MAT	1	PASI-G
40113304043	MW-210A		MAT	1	PASI-G
40113304044	MW-210		MAT	1	PASI-G
40113304045	MW-210B		MAT	1	PASI-G
40113304046	MW-214		MAT	1	PASI-G
40113304047	MW-214A		MAT	1	PASI-G
40113304048	W-3R		MAT	1	PASI-G
40113304049	W-3AR		MAT	1	PASI-G
40113304050	MW-1RR		MAT	1	PASI-G
40113304051	MW-1AR		MAT	1	PASI-G
40113304052	SW-2		MAT	1	PASI-G
40113304053	SW-3		MAT	1	PASI-G
40113304054	SW-4		MAT	1	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40113304055	SW-5		CDH	1	PASI-G
40113304056	P-423D		MAT	1	PASI-G
40113304057	P-424D		MAT	1	PASI-G
40113304058	P-424SS		MAT	1	PASI-G
40113304059	P-422B		MAT	1	PASI-G
40113304060	MW-1B		MAT	1	PASI-G
40113304061	P-401D		MAT	1	PASI-G
40113304062	P-402E		MAT	1	PASI-G
40113226006	MW-204A	EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113226007	A-3A	EPA 6020	DS1	2	PASI-G
			MAT	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40113171081	A-3A		MAT	1	PASI-G
40113171082	MW-204A		MAT	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-210A**      **Lab ID: 40113304001**      Collected: 04/16/15 12:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>6.2</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 08:40	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>622</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 08:40		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	71-55-6	
1,1,2-Trichloroethane	< <b>0.49</b>	ug/L	2.5	0.49	2.5		04/18/15 19:49	79-00-5	
1,1-Dichloroethane	<b>18.2</b>	ug/L	2.5	0.60	2.5		04/18/15 19:49	75-34-3	
1,1-Dichloroethene	<b>1.5J</b>	ug/L	2.5	1.0	2.5		04/18/15 19:49	75-35-4	
1,2-Dibromo-3-chloropropane	< <b>5.4</b>	ug/L	12.5	5.4	2.5		04/18/15 19:49	96-12-8	
1,2-Dibromoethane (EDB)	< <b>0.44</b>	ug/L	2.5	0.44	2.5		04/18/15 19:49	106-93-4	
1,2-Dichlorobenzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	95-50-1	
1,2-Dichloroethane	< <b>0.42</b>	ug/L	2.5	0.42	2.5		04/18/15 19:49	107-06-2	
1,2-Dichloropropane	< <b>0.58</b>	ug/L	2.5	0.58	2.5		04/18/15 19:49	78-87-5	
1,3-Dichlorobenzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	541-73-1	
1,4-Dichlorobenzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	106-46-7	
2-Butanone (MEK)	< <b>7.4</b>	ug/L	50.0	7.4	2.5		04/18/15 19:49	78-93-3	
Acetone	< <b>7.4</b>	ug/L	50.0	7.4	2.5		04/18/15 19:49	67-64-1	
Benzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	71-43-2	
Bromodichloromethane	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	75-27-4	
Bromoform	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	75-25-2	
Bromomethane	< <b>6.1</b>	ug/L	12.5	6.1	2.5		04/18/15 19:49	74-83-9	1q
Carbon disulfide	< <b>1.5</b>	ug/L	12.5	1.5	2.5		04/18/15 19:49	75-15-0	
Carbon tetrachloride	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	56-23-5	
Chlorobenzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	108-90-7	
Chloroethane	<b>8.6</b>	ug/L	2.5	0.94	2.5		04/18/15 19:49	75-00-3	
Chloroform	< <b>6.2</b>	ug/L	12.5	6.2	2.5		04/18/15 19:49	67-66-3	
Chloromethane	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	74-87-3	L3
Dibromochloromethane	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	124-48-1	
Dibromomethane	< <b>1.1</b>	ug/L	2.5	1.1	2.5		04/18/15 19:49	74-95-3	
Dichlorodifluoromethane	< <b>0.56</b>	ug/L	2.5	0.56	2.5		04/18/15 19:49	75-71-8	
Ethylbenzene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	100-41-4	
Methyl-tert-butyl ether	< <b>0.44</b>	ug/L	2.5	0.44	2.5		04/18/15 19:49	1634-04-4	
Methylene Chloride	< <b>0.58</b>	ug/L	2.5	0.58	2.5		04/18/15 19:49	75-09-2	
Naphthalene	< <b>6.2</b>	ug/L	12.5	6.2	2.5		04/18/15 19:49	91-20-3	
Styrene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	100-42-5	
Tetrachloroethene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	127-18-4	
Tetrahydrofuran	<b>13.0</b>	ug/L	12.5	5.1	2.5		04/18/15 19:49	109-99-9	
Toluene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	108-88-3	
Trichloroethene	<b>1.7J</b>	ug/L	2.5	0.83	2.5		04/18/15 19:49	79-01-6	
Trichlorofluoromethane	< <b>0.46</b>	ug/L	2.5	0.46	2.5		04/18/15 19:49	75-69-4	
Vinyl chloride	<b>149</b>	ug/L	2.5	0.44	2.5		04/18/15 19:49	75-01-4	
cis-1,2-Dichloroethene	<b>296</b>	ug/L	2.5	0.64	2.5		04/18/15 19:49	156-59-2	
cis-1,3-Dichloropropene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	10061-01-5	
m&p-Xylene	< <b>2.5</b>	ug/L	5.0	2.5	2.5		04/18/15 19:49	179601-23-1	
o-Xylene	< <b>1.2</b>	ug/L	2.5	1.2	2.5		04/18/15 19:49	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-210A**      **Lab ID: 40113304001**      Collected: 04/16/15 12:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<b>3.0</b>	ug/L	2.5	0.64	2.5		04/18/15 19:49	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;0.57</b>	ug/L	2.5	0.57	2.5		04/18/15 19:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		2.5		04/18/15 19:49	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		2.5		04/18/15 19:49	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2.5		04/18/15 19:49	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.39</b>	Std. Units			1		04/16/15 12:25		
Field Specific Conductance	<b>1465</b>	umhos/cm			1		04/16/15 12:25		
Turbidity	<b>N</b>	NTU			1		04/16/15 12:25		
Apparent Color	<b>N</b>	no units			1		04/16/15 12:25		
Odor	<b>N</b>	no units			1		04/16/15 12:25		
Temperature, Water (C)	<b>14.1</b>	deg C			1		04/16/15 12:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>255</b>	mg/L	40.0	20.0	10		04/28/15 00:03	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>463</b>	mg/L	100	43.2	5		04/21/15 15:04		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-210**      **Lab ID: 40113304002**      Collected: 04/16/15 12:05      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	2.7	ug/L	2.0	0.20	2	05/21/15 08:30	05/23/15 08:47	7440-38-2	
Total Hardness by 2340B, Dissolved	860	mg/L	10.0	0.30	2	05/21/15 08:30	05/23/15 08:47		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/20/15 07:36	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/20/15 07:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/20/15 07:36	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/20/15 07:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/20/15 07:36	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/20/15 07:36	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/20/15 07:36	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/20/15 07:36	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/20/15 07:36	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/20/15 07:36	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/20/15 07:36	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/20/15 07:36	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/20/15 07:36	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	74-87-3	L3
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/20/15 07:36	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/20/15 07:36	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/20/15 07:36	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/20/15 07:36	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/20/15 07:36	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/20/15 07:36	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/20/15 07:36	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/20/15 07:36	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/20/15 07:36	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/20/15 07:36	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/20/15 07:36	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/20/15 07:36	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-210**      **Lab ID: 40113304002**      Collected: 04/16/15 12:05      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/20/15 07:36	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/20/15 07:36	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/20/15 07:36	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/20/15 07:36	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/20/15 07:36	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.44	Std. Units			1		04/16/15 12:05		
Field Specific Conductance	1323	umhos/cm			1		04/16/15 12:05		
Turbidity	N	NTU			1		04/16/15 12:05		
Apparent Color	N	no units			1		04/16/15 12:05		
Odor	N	no units			1		04/16/15 12:05		
Temperature, Water (C)	11.9	deg C			1		04/16/15 12:05		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	58.5	mg/L	20.0	10.0	5		04/28/15 17:31	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	748	mg/L	100	43.2	5		04/21/15 15:07		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Project No.: 40113304

Sample: **MW-210B** Lab ID: **40113304003** Collected: 04/16/15 13:00 Received: 04/17/15 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.23J</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 08:53	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>388</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 08:53		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/18/15 15:04	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/18/15 15:04	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/18/15 15:04	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/18/15 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/18/15 15:04	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/18/15 15:04	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/18/15 15:04	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/18/15 15:04	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/18/15 15:04	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/18/15 15:04	74-83-9	1q
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/18/15 15:04	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/18/15 15:04	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/18/15 15:04	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	74-87-3	L3
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/18/15 15:04	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/18/15 15:04	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/18/15 15:04	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/18/15 15:04	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/18/15 15:04	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/18/15 15:04	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/18/15 15:04	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/18/15 15:04	75-69-4	
Vinyl chloride	<b>4.1</b>	ug/L	1.0	0.18	1		04/18/15 15:04	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/18/15 15:04	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/18/15 15:04	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/18/15 15:04	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-210B**      **Lab ID: 40113304003**      Collected: 04/16/15 13:00      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/18/15 15:04	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/18/15 15:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/18/15 15:04	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/18/15 15:04	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/18/15 15:04	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.84</b>	Std. Units			1		04/16/15 13:00		
Field Specific Conductance	<b>698</b>	umhos/cm			1		04/16/15 13:00		
Turbidity	<b>N</b>	NTU			1		04/16/15 13:00		
Apparent Color	<b>N</b>	no units			1		04/16/15 13:00		
Odor	<b>N</b>	no units			1		04/16/15 13:00		
Temperature, Water (C)	<b>13.0</b>	deg C			1		04/16/15 13:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>76.7</b>	mg/L	20.0	10.0	5		04/28/15 00:27	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>277</b>	mg/L	20.0	8.6	1		04/21/15 15:08		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

**Sample: MW-214**      **Lab ID: 40113304004**      Collected: 04/16/15 11:15      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>1.4J</b>	ug/L	2.0	0.20	2	05/21/15 08:30	05/23/15 09:00	7440-38-2	D3
Total Hardness by 2340B, Dissolved	<b>576</b>	mg/L	10.0	0.30	2	05/21/15 08:30	05/23/15 09:00		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.29</b>	Std. Units			1		04/16/15 11:15		
Field Specific Conductance	<b>994</b>	umhos/cm			1		04/16/15 11:15		
Turbidity	<b>N</b>	NTU			1		04/16/15 11:15		
Apparent Color	<b>N</b>	no units			1		04/16/15 11:15		
Odor	<b>N</b>	no units			1		04/16/15 11:15		
Temperature, Water (C)	<b>9.6</b>	deg C			1		04/16/15 11:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>58.8</b>	mg/L	20.0	10.0	5		04/28/15 17:43	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>478</b>	mg/L	40.0	17.3	2		04/21/15 15:08		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-214A**      **Lab ID: 40113304005**      Collected: 04/16/15 11:30      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.74J</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:06	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>588</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:06		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.52</b>	Std. Units			1		04/16/15 11:30		
Field Specific Conductance	<b>1141</b>	umhos/cm			1		04/16/15 11:30		
Turbidity	<b>N</b>	NTU			1		04/16/15 11:30		
Apparent Color	<b>N</b>	no units			1		04/16/15 11:30		
Odor	<b>N</b>	no units			1		04/16/15 11:30		
Temperature, Water (C)	<b>12.9</b>	deg C			1		04/16/15 11:30		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>200</b>	mg/L	40.0	20.0	10		04/28/15 01:15	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>347</b>	mg/L	20.0	8.6	1		04/21/15 15:09		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-8R**      **Lab ID: 40113304006**      Collected: 04/16/15 09:45      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>2.7</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:25	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>759</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:25		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>6.75</b>	Std. Units			1		04/16/15 09:45		
Field Specific Conductance	<b>1343</b>	umhos/cm			1		04/16/15 09:45		
Turbidity	<b>N</b>	NTU			1		04/16/15 09:45		
Apparent Color	<b>N</b>	no units			1		04/16/15 09:45		
Odor	<b>N</b>	no units			1		04/16/15 09:45		
Temperature, Water (C)	<b>10.6</b>	deg C			1		04/16/15 09:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>45.2</b>	mg/L	4.0	2.0	1		04/28/15 01:27	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>729</b>	mg/L	200	86.5	10		04/21/15 15:09		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-203A**      **Lab ID: 40113304007**      Collected: 04/16/15 10:30      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>8.4</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:32	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>338</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:32		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.49</b>	Std. Units			1		04/16/15 10:30		
Field Specific Conductance	<b>628</b>	umhos/cm			1		04/16/15 10:30		
Turbidity	<b>0</b>	NTU			1		04/16/15 10:30		
Apparent Color	<b>N</b>	no units			1		04/16/15 10:30		
Odor	<b>N</b>	no units			1		04/16/15 10:30		
Temperature, Water (C)	<b>11.9</b>	deg C			1		04/16/15 10:30		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>16.6</b>	mg/L	4.0	2.0	1		04/28/15 01:39	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>351</b>	mg/L	20.0	8.6	1		04/21/15 15:11		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-6R**      **Lab ID: 40113304008**      Collected: 04/16/15 10:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.72J</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:38	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>338</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:38		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.15</b>	Std. Units			1		04/16/15 10:25		
Field Specific Conductance	<b>619</b>	umhos/cm			1		04/16/15 10:25		
Turbidity	<b>N</b>	NTU			1		04/16/15 10:25		
Apparent Color	<b>N</b>	no units			1		04/16/15 10:25		
Odor	<b>N</b>	no units			1		04/16/15 10:25		
Temperature, Water (C)	<b>11.7</b>	deg C			1		04/16/15 10:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>25.6</b>	mg/L	4.0	2.0	1		04/28/15 01:52	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>322</b>	mg/L	20.0	8.6	1		04/21/15 15:12		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-6R DUP 01**      **Lab ID: 40113304009**      Collected: 04/16/15 10:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.69J</b>	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:44	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>337</b>	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:44		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.15</b>	Std. Units			1		04/16/15 10:25		
Field Specific Conductance	<b>619</b>	umhos/cm			1		04/16/15 10:25		
Turbidity	<b>N</b>	NTU			1		04/16/15 10:25		
Apparent Color	<b>N</b>	no units			1		04/16/15 10:25		
Odor	<b>N</b>	no units			1		04/16/15 10:25		
Temperature, Water (C)	<b>11.7</b>	deg C			1		04/16/15 10:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>25.7</b>	mg/L	4.0	2.0	1		04/28/15 02:04	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>318</b>	mg/L	20.0	8.6	1		04/21/15 15:13		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Sample: TRIP BLANK Lab ID: 40113304010 Collected: 04/16/15 00:00 Received: 04/17/15 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/18/15 18:44	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/18/15 18:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/18/15 18:44	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/18/15 18:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/18/15 18:44	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/18/15 18:44	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/18/15 18:44	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/18/15 18:44	78-93-3	
Acetone	9.0J	ug/L	20.0	3.0	1		04/18/15 18:44	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/18/15 18:44	74-83-9	1q
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/18/15 18:44	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/18/15 18:44	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/18/15 18:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	74-87-3	L3
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/18/15 18:44	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/18/15 18:44	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/18/15 18:44	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/18/15 18:44	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/18/15 18:44	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/18/15 18:44	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/18/15 18:44	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/18/15 18:44	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/18/15 18:44	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/18/15 18:44	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/18/15 18:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/18/15 18:44	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/18/15 18:44	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/18/15 18:44	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/18/15 18:44	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/18/15 18:44	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: TRIP BLANK**      **Lab ID: 40113304010**      Collected: 04/16/15 00:00      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1		04/18/15 18:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1RR**      **Lab ID: 40113341001**      Collected: 04/16/15 14:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>6.4</b>	ug/L	2.0	0.20	2	04/21/15 10:52	04/22/15 20:50	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>788</b>	mg/L	10.0	0.30	2	04/21/15 10:52	04/22/15 20:50		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/22/15 16:55	79-00-5	
1,1-Dichloroethane	<b>1.2</b>	ug/L	1.0	0.24	1		04/22/15 16:55	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/22/15 16:55	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/22/15 16:55	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/22/15 16:55	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/22/15 16:55	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 16:55	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/22/15 16:55	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/22/15 16:55	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/22/15 16:55	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/22/15 16:55	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/22/15 16:55	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/22/15 16:55	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/22/15 16:55	74-95-3	
Dichlorodifluoromethane	<b>0.52J</b>	ug/L	1.0	0.22	1		04/22/15 16:55	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/22/15 16:55	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 16:55	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/22/15 16:55	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	127-18-4	
Tetrahydrofuran	<b>2.6J</b>	ug/L	5.0	2.0	1		04/22/15 16:55	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	108-88-3	
Trichloroethene	<b>0.53J</b>	ug/L	1.0	0.33	1		04/22/15 16:55	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/22/15 16:55	75-69-4	
Vinyl chloride	<b>56.6</b>	ug/L	1.0	0.18	1		04/22/15 16:55	75-01-4	
cis-1,2-Dichloroethene	<b>14.4</b>	ug/L	1.0	0.26	1		04/22/15 16:55	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/22/15 16:55	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 16:55	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1RR**      **Lab ID: 40113341001**      Collected: 04/16/15 14:25      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/15 16:55	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/22/15 16:55	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/22/15 16:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/22/15 16:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/22/15 16:55	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	7.02	Std. Units			1		04/16/15 14:25		
Field Specific Conductance	1764	umhos/cm			1		04/16/15 14:25		
Turbidity	0	NTU			1		04/16/15 14:25		
Apparent Color	N	no units			1		04/16/15 14:25		
Odor	N	no units			1		04/16/15 14:25		
Temperature, Water (C)	10.8	deg C			1		04/16/15 14:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	85.5	mg/L	20.0	10.0	5		04/28/15 11:17	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	814	mg/L	100	43.2	5		04/21/15 14:53		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1AR**      **Lab ID: 40113341002**      Collected: 04/16/15 14:55      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	2.7	ug/L	1.0	0.099	1	04/21/15 10:52	04/22/15 21:09	7440-38-2	
Total Hardness by 2340B, Dissolved	661	mg/L	5.0	0.15	1	04/21/15 10:52	04/22/15 21:09		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		04/22/15 14:17	79-00-5	
1,1-Dichloroethane	19.6	ug/L	10.0	2.4	10		04/22/15 14:17	75-34-3	
1,1-Dichloroethene	8.0J	ug/L	10.0	4.1	10		04/22/15 14:17	75-35-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		04/22/15 14:17	96-12-8	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		04/22/15 14:17	106-93-4	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	95-50-1	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		04/22/15 14:17	107-06-2	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		04/22/15 14:17	78-87-5	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	106-46-7	
2-Butanone (MEK)	<29.8	ug/L	200	29.8	10		04/22/15 14:17	78-93-3	
Acetone	<29.5	ug/L	200	29.5	10		04/22/15 14:17	67-64-1	
Benzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	71-43-2	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		04/22/15 14:17	74-83-9	
Carbon disulfide	<6.1	ug/L	50.0	6.1	10		04/22/15 14:17	75-15-0	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		04/22/15 14:17	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		04/22/15 14:17	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	74-87-3	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	124-48-1	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		04/22/15 14:17	74-95-3	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		04/22/15 14:17	75-71-8	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	100-41-4	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		04/22/15 14:17	1634-04-4	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		04/22/15 14:17	75-09-2	
Naphthalene	<25.0	ug/L	50.0	25.0	10		04/22/15 14:17	91-20-3	
Styrene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	100-42-5	
Tetrachloroethene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	127-18-4	
Tetrahydrofuran	53.8	ug/L	50.0	20.3	10		04/22/15 14:17	109-99-9	
Toluene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	108-88-3	
Trichloroethene	<3.3	ug/L	10.0	3.3	10		04/22/15 14:17	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		04/22/15 14:17	75-69-4	
Vinyl chloride	1190	ug/L	10.0	1.8	10		04/22/15 14:17	75-01-4	
cis-1,2-Dichloroethene	1450	ug/L	10.0	2.6	10		04/22/15 14:17	156-59-2	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	10061-01-5	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		04/22/15 14:17	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		04/22/15 14:17	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1AR**      **Lab ID: 40113341002**      Collected: 04/16/15 14:55      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<b>7.2J</b>	ug/L	10.0	2.6	10		04/22/15 14:17	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;2.3</b>	ug/L	10.0	2.3	10		04/22/15 14:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		10		04/22/15 14:17	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		10		04/22/15 14:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		04/22/15 14:17	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.39</b>	Std. Units			1		04/16/15 14:55		
Field Specific Conductance	<b>1770</b>	umhos/cm			1		04/16/15 14:55		
Turbidity	<b>N</b>	NTU			1		04/16/15 14:55		
Apparent Color	<b>N</b>	no units			1		04/16/15 14:55		
Odor	<b>N</b>	no units			1		04/16/15 14:55		
Temperature, Water (C)	<b>11.4</b>	deg C			1		04/16/15 14:55		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>456</b>	mg/L	80.0	40.0	20		04/28/15 11:53	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>558</b>	mg/L	100	43.2	5		04/24/15 10:13		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: TRIP BLANK**      **Lab ID: 40113341003**      Collected: 04/16/15 00:00      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/18/15 19:27	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/18/15 19:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/18/15 19:27	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/18/15 19:27	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/18/15 19:27	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/18/15 19:27	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/18/15 19:27	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/18/15 19:27	78-93-3	
Acetone	9.5J	ug/L	20.0	3.0	1		04/18/15 19:27	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/18/15 19:27	74-83-9	1q
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/18/15 19:27	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/18/15 19:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/18/15 19:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	74-87-3	L3
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/18/15 19:27	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/18/15 19:27	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/18/15 19:27	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/18/15 19:27	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/18/15 19:27	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/18/15 19:27	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/18/15 19:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/18/15 19:27	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/18/15 19:27	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/18/15 19:27	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/18/15 19:27	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/18/15 19:27	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/18/15 19:27	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/18/15 19:27	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/18/15 19:27	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/18/15 19:27	1868-53-7	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: TRIP BLANK**      **Lab ID: 40113341003**      Collected: 04/16/15 00:00      Received: 04/17/15 07:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	102	%	70-130		1		04/18/15 19:27	2037-26-5	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-3R**      **Lab ID: 40113419001**      Collected: 04/17/15 09:15      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	1.2	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:51	7440-38-2	
Total Hardness by 2340B, Dissolved	894	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:51		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/21/15 23:51	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/21/15 23:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/21/15 23:51	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/21/15 23:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/21/15 23:51	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/21/15 23:51	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/21/15 23:51	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/21/15 23:51	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/21/15 23:51	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/21/15 23:51	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/21/15 23:51	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/21/15 23:51	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/21/15 23:51	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/21/15 23:51	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/21/15 23:51	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/21/15 23:51	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/21/15 23:51	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/21/15 23:51	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/21/15 23:51	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/21/15 23:51	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/21/15 23:51	75-69-4	
Vinyl chloride	1.5	ug/L	1.0	0.18	1		04/21/15 23:51	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/21/15 23:51	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/21/15 23:51	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/21/15 23:51	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-3R**      **Lab ID: 40113419001**      Collected: 04/17/15 09:15      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/21/15 23:51	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/21/15 23:51	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/15 23:51	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/21/15 23:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/21/15 23:51	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	6.52	Std. Units			1		04/17/15 09:15		
Field Specific Conductance	1597	umhos/cm			1		04/17/15 09:15		
Turbidity	N	NTU			1		04/17/15 09:15		
Apparent Color	N	no units			1		04/17/15 09:15		
Odor	N	no units			1		04/17/15 09:15		
Temperature, Water (C)	8.2	deg C			1		04/17/15 09:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	78.9	mg/L	20.0	10.0	5		04/30/15 16:09	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	748	mg/L	100	43.2	5		04/24/15 10:26		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-3AR**      **Lab ID: 40113419002**      Collected: 04/17/15 09:25      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	1.7	ug/L	1.0	0.099	1	05/21/15 08:30	05/23/15 09:57	7440-38-2	
Total Hardness by 2340B, Dissolved	656	mg/L	5.0	0.15	1	05/21/15 08:30	05/23/15 09:57		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/22/15 00:14	79-00-5	
1,1-Dichloroethane	12.4	ug/L	1.0	0.24	1		04/22/15 00:14	75-34-3	
1,1-Dichloroethene	1.1	ug/L	1.0	0.41	1		04/22/15 00:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/22/15 00:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/22/15 00:14	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/22/15 00:14	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/22/15 00:14	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/22/15 00:14	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/22/15 00:14	67-64-1	
Benzene	0.76J	ug/L	1.0	0.50	1		04/22/15 00:14	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/22/15 00:14	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/22/15 00:14	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	108-90-7	
Chloroethane	4.3	ug/L	1.0	0.37	1		04/22/15 00:14	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/22/15 00:14	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/22/15 00:14	74-95-3	
Dichlorodifluoromethane	1.4	ug/L	1.0	0.22	1		04/22/15 00:14	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/22/15 00:14	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/22/15 00:14	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/22/15 00:14	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	127-18-4	
Tetrahydrofuran	3.8J	ug/L	5.0	2.0	1		04/22/15 00:14	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/22/15 00:14	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/22/15 00:14	75-69-4	
Vinyl chloride	112	ug/L	1.0	0.18	1		04/22/15 00:14	75-01-4	
cis-1,2-Dichloroethene	111	ug/L	1.0	0.26	1		04/22/15 00:14	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/22/15 00:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/22/15 00:14	95-47-6	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-3AR**      **Lab ID: 40113419002**      Collected: 04/17/15 09:25      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<b>0.67J</b>	ug/L	1.0	0.26	1		04/22/15 00:14	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 00:14	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/22/15 00:14	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/22/15 00:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/22/15 00:14	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>6.31</b>	Std. Units			1		04/17/15 09:25		
Field Specific Conductance	<b>1421</b>	umhos/cm			1		04/17/15 09:25		
Turbidity	<b>N</b>	NTU			1		04/17/15 09:25		
Apparent Color	<b>N</b>	no units			1		04/17/15 09:25		
Odor	<b>N</b>	no units			1		04/17/15 09:25		
Temperature, Water (C)	<b>9.9</b>	deg C			1		04/17/15 09:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>81.4</b>	mg/L	20.0	10.0	5		04/30/15 16:59	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>721</b>	mg/L	100	43.2	5		04/24/15 10:27		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-7R**      **Lab ID: 40113420001**      Collected: 04/17/15 08:45      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>2.3</b>	ug/L	1.0	0.099	1	04/24/15 08:41	04/25/15 07:42	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>833</b>	mg/L	5.0	0.15	1	04/24/15 08:41	04/25/15 07:42		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>6.69</b>	Std. Units			1		04/17/15 08:45		
Field Specific Conductance	<b>841</b>	umhos/cm			1		04/17/15 08:45		
Turbidity	<b>0</b>	NTU			1		04/17/15 08:45		
Apparent Color	<b>N</b>	no units			1		04/17/15 08:45		
Odor	<b>N</b>	no units			1		04/17/15 08:45		
Temperature, Water (C)	<b>8.7</b>	deg C			1		04/17/15 08:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>67.5</b>	mg/L	20.0	10.0	5		05/01/15 10:05	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>422</b>	mg/L	40.0	17.3	2		04/24/15 10:27		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-163**      **Lab ID: 40113420002**      Collected: 04/17/15 09:00      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>643</b>	mg/L	50.0	1.5	10	04/24/15 08:41	04/25/15 06:34		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.14</b>	Std. Units			1		04/17/15 09:00		
Field Specific Conductance	<b>528</b>	umhos/cm			1		04/17/15 09:00		
Turbidity	<b>N</b>	NTU			1		04/17/15 09:00		
Apparent Color	<b>N</b>	no units			1		04/17/15 09:00		
Odor	<b>N</b>	no units			1		04/17/15 09:00		
Temperature, Water (C)	<b>9.1</b>	deg C			1		04/17/15 09:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>27.7</b>	mg/L	4.0	2.0	1		04/30/15 17:49	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>257</b>	mg/L	20.0	8.6	1		04/24/15 10:28		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

**Sample: W-163A**      **Lab ID: 40113420003**      Collected: 04/17/15 09:15      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Total Hardness by 2340B, Dissolved	<b>380</b>	mg/L	5.0	0.15	1	04/24/15 08:41	04/25/15 07:56		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.78</b>	Std. Units			1		04/17/15 09:15		
Field Specific Conductance	<b>297</b>	umhos/cm			1		04/17/15 09:15		
Turbidity	<b>0</b>	NTU			1		04/17/15 09:15		
Apparent Color	<b>N</b>	no units			1		04/17/15 09:15		
Odor	<b>N</b>	no units			1		04/17/15 09:15		
Temperature, Water (C)	<b>11.3</b>	deg C			1		04/17/15 09:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>3.2J</b>	mg/L	4.0	2.0	1		04/30/15 18:02	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>185</b>	mg/L	20.0	8.6	1		04/24/15 10:28		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: W-163A DUP 02**      **Lab ID: 40113420004**      Collected: 04/17/15 09:15      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>1.2</b>	ug/L	1.0	0.099	1	04/24/15 08:41	04/25/15 08:03	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>558</b>	mg/L	5.0	0.15	1	04/24/15 08:41	04/25/15 08:03		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.78</b>	Std. Units			1		04/17/15 09:15		
Field Specific Conductance	<b>297</b>	umhos/cm			1		04/17/15 09:15		
Turbidity	<b>0</b>	NTU			1		04/17/15 09:15		
Apparent Color	<b>N</b>	no units			1		04/17/15 09:15		
Odor	<b>N</b>	no units			1		04/17/15 09:15		
Temperature, Water (C)	<b>11.3</b>	deg C			1		04/17/15 09:15		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>3.2J</b>	mg/L	4.0	2.0	1		04/30/15 11:55	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>192</b>	mg/L	40.0	17.3	2		04/24/15 10:29		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: TRIP BLANK**      **Lab ID: 40113420005**      Collected: 04/17/15 00:00      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/22/15 01:44	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/22/15 01:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/22/15 01:44	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/22/15 01:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/22/15 01:44	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/22/15 01:44	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/22/15 01:44	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/22/15 01:44	78-93-3	
Acetone	6.5J	ug/L	20.0	3.0	1		04/22/15 01:44	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/22/15 01:44	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/22/15 01:44	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/22/15 01:44	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/22/15 01:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/22/15 01:44	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/22/15 01:44	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/22/15 01:44	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/22/15 01:44	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/22/15 01:44	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/22/15 01:44	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/22/15 01:44	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/22/15 01:44	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/22/15 01:44	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/15 01:44	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/22/15 01:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:44	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/15 01:44	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/22/15 01:44	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/22/15 01:44	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/22/15 01:44	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: TRIP BLANK**      **Lab ID: 40113420005**      Collected: 04/17/15 00:00      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1		04/22/15 01:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1B**      **Lab ID: 40113421001**      Collected: 04/17/15 09:50      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>265000</b>	ug/L	2000	150	1		04/23/15 14:31		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/21/15 20:29	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/21/15 20:29	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/21/15 20:29	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/21/15 20:29	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 20:29	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 20:29	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:29	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 20:29	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 20:29	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/21/15 20:29	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/21/15 20:29	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/21/15 20:29	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 20:29	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/21/15 20:29	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/21/15 20:29	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 20:29	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:29	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 20:29	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/21/15 20:29	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/21/15 20:29	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 20:29	75-69-4	
Vinyl chloride	<b>1.1</b>	ug/L	1.0	0.18	1		04/21/15 20:29	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 20:29	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/21/15 20:29	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:29	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 20:29	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-1B**      **Lab ID: 40113421001**      Collected: 04/17/15 09:50      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:29	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/15 20:29	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/21/15 20:29	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/21/15 20:29	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.74</b>	Std. Units			1		04/17/15 09:50		
Field Specific Conductance	<b>686</b>	umhos/cm			1		04/17/15 09:50		
Turbidity	<b>N</b>	NTU			1		04/17/15 09:50		
Apparent Color	<b>N</b>	no units			1		04/17/15 09:50		
Odor	<b>N</b>	no units			1		04/17/15 09:50		
Temperature, Water (C)	<b>10.4</b>	deg C			1		04/17/15 09:50		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>67.6</b>	mg/L	20.0	10.0	5		04/30/15 12:32	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>224</b>	mg/L	20.0	8.6	1		04/24/15 10:34		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-422B**      **Lab ID: 40113421002**      Collected: 04/17/15 10:10      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>166000</b>	ug/L	2000	150	1		04/23/15 14:33		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/21/15 20:51	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/21/15 20:51	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/21/15 20:51	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/21/15 20:51	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 20:51	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 20:51	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:51	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 20:51	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 20:51	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/21/15 20:51	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/21/15 20:51	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/21/15 20:51	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 20:51	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/21/15 20:51	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/21/15 20:51	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 20:51	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:51	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 20:51	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/21/15 20:51	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/21/15 20:51	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 20:51	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 20:51	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 20:51	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/21/15 20:51	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 20:51	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 20:51	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-422B**      **Lab ID: 40113421002**      Collected: 04/17/15 10:10      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 20:51	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/15 20:51	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/21/15 20:51	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/21/15 20:51	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.82</b>	Std. Units			1		04/17/15 10:10		
Field Specific Conductance	<b>439</b>	umhos/cm			1		04/17/15 10:10		
Turbidity	<b>N</b>	NTU			1		04/17/15 10:10		
Apparent Color	<b>N</b>	no units			1		04/17/15 10:10		
Odor	<b>N</b>	no units			1		04/17/15 10:10		
Temperature, Water (C)	<b>13.9</b>	deg C			1		04/17/15 10:10		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>32.5</b>	mg/L	4.0	2.0	1		04/30/15 12:44	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>189</b>	mg/L	20.0	8.6	1		04/24/15 10:34		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-402E**      **Lab ID: 40113421003**      Collected: 04/17/15 10:40      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>450000</b>	ug/L	2000	150	1		04/29/15 14:05		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		04/22/15 09:11	79-00-5	
1,1-Dichloroethane	<b>0.82J</b>	ug/L	2.5	0.60	2.5		04/22/15 09:11	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		04/22/15 09:11	75-35-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		04/22/15 09:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		04/22/15 09:11	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	95-50-1	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		04/22/15 09:11	107-06-2	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		04/22/15 09:11	78-87-5	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	106-46-7	
2-Butanone (MEK)	<7.4	ug/L	50.0	7.4	2.5		04/22/15 09:11	78-93-3	
Acetone	<7.4	ug/L	50.0	7.4	2.5		04/22/15 09:11	67-64-1	
Benzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	71-43-2	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		04/22/15 09:11	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		04/22/15 09:11	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	108-90-7	
Chloroethane	<b>4.8</b>	ug/L	2.5	0.94	2.5		04/22/15 09:11	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		04/22/15 09:11	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		04/22/15 09:11	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		04/22/15 09:11	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		04/22/15 09:11	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		04/22/15 09:11	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		04/22/15 09:11	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		04/22/15 09:11	109-99-9	
Toluene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	108-88-3	
Trichloroethene	<b>5.5</b>	ug/L	2.5	0.83	2.5		04/22/15 09:11	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		04/22/15 09:11	75-69-4	
Vinyl chloride	<b>27.6</b>	ug/L	2.5	0.44	2.5		04/22/15 09:11	75-01-4	
cis-1,2-Dichloroethene	<b>298</b>	ug/L	2.5	0.64	2.5		04/22/15 09:11	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		04/22/15 09:11	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		04/22/15 09:11	95-47-6	
trans-1,2-Dichloroethene	<b>8.5</b>	ug/L	2.5	0.64	2.5		04/22/15 09:11	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-402E**      **Lab ID: 40113421003**      Collected: 04/17/15 10:40      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.57</b>	ug/L	2.5	0.57	2.5		04/22/15 09:11	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		2.5		04/22/15 09:11	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2.5		04/22/15 09:11	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		04/22/15 09:11	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.60</b>	Std. Units			1		04/17/15 10:40		
Field Specific Conductance	<b>808</b>	umhos/cm			1		04/17/15 10:40		
Turbidity	<b>N</b>	NTU			1		04/17/15 10:40		
Apparent Color	<b>N</b>	no units			1		04/17/15 10:40		
Odor	<b>N</b>	no units			1		04/17/15 10:40		
Temperature, Water (C)	<b>14.8</b>	deg C			1		04/17/15 10:40		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>62.8</b>	mg/L	20.0	10.0	5		04/30/15 12:56	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>383</b>	mg/L	20.0	8.6	1		04/24/15 10:35		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-401D**      **Lab ID: 40113421004**      Collected: 04/17/15 11:35      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>251000</b>	ug/L	2000	150	1		04/29/15 14:07		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/22/15 08:49	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/22/15 08:49	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/22/15 08:49	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/22/15 08:49	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/22/15 08:49	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/22/15 08:49	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 08:49	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/22/15 08:49	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/22/15 08:49	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/22/15 08:49	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/22/15 08:49	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/22/15 08:49	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/22/15 08:49	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/22/15 08:49	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/22/15 08:49	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/22/15 08:49	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 08:49	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/22/15 08:49	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/22/15 08:49	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/22/15 08:49	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/22/15 08:49	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/22/15 08:49	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/22/15 08:49	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/22/15 08:49	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/22/15 08:49	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/22/15 08:49	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-401D**      **Lab ID: 40113421004**      Collected: 04/17/15 11:35      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/22/15 08:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/22/15 08:49	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/22/15 08:49	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/22/15 08:49	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.87</b>	Std. Units			1		04/17/15 11:35		
Field Specific Conductance	<b>615</b>	umhos/cm			1		04/17/15 11:35		
Turbidity	<b>N</b>	NTU			1		04/17/15 11:35		
Apparent Color	<b>N</b>	no units			1		04/17/15 11:35		
Odor	<b>N</b>	no units			1		04/17/15 11:35		
Temperature, Water (C)	<b>15.8</b>	deg C			1		04/17/15 11:35		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>12.0</b>	mg/L	4.0	2.0	1		04/30/15 13:08	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>348</b>	mg/L	20.0	8.6	1		04/24/15 10:35		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Sample: P-423D Lab ID: 40113421005 Collected: 04/17/15 12:50 Received: 04/18/15 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>408000</b>	ug/L	2000	150	1		04/29/15 14:10		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/21/15 21:59	79-00-5	
1,1-Dichloroethane	<b>0.35J</b>	ug/L	1.0	0.24	1		04/21/15 21:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/21/15 21:59	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/21/15 21:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/21/15 21:59	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/21/15 21:59	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/21/15 21:59	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/21/15 21:59	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/21/15 21:59	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/21/15 21:59	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/21/15 21:59	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	108-90-7	
Chloroethane	<b>0.97J</b>	ug/L	1.0	0.37	1		04/21/15 21:59	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/21/15 21:59	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/21/15 21:59	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/21/15 21:59	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/21/15 21:59	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/21/15 21:59	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/21/15 21:59	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/21/15 21:59	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	108-88-3	
Trichloroethene	<b>0.66J</b>	ug/L	1.0	0.33	1		04/21/15 21:59	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/21/15 21:59	75-69-4	
Vinyl chloride	<b>1.1</b>	ug/L	1.0	0.18	1		04/21/15 21:59	75-01-4	
cis-1,2-Dichloroethene	<b>47.7</b>	ug/L	1.0	0.26	1		04/21/15 21:59	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/21/15 21:59	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/21/15 21:59	95-47-6	
trans-1,2-Dichloroethene	<b>2.2</b>	ug/L	1.0	0.26	1		04/21/15 21:59	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-423D**      **Lab ID: 40113421005**      Collected: 04/17/15 12:50      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 21:59	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/15 21:59	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/21/15 21:59	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/21/15 21:59	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.69</b>	Std. Units			1		04/17/15 12:50		
Field Specific Conductance	<b>697</b>	umhos/cm			1		04/17/15 12:50		
Turbidity	<b>N</b>	NTU			1		04/17/15 12:50		
Apparent Color	<b>N</b>	no units			1		04/17/15 12:50		
Odor	<b>N</b>	no units			1		04/17/15 12:50		
Temperature, Water (C)	<b>16.2</b>	deg C			1		04/17/15 12:50		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>33.8</b>	mg/L	4.0	2.0	1		04/30/15 13:20	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>357</b>	mg/L	20.0	8.6	1		04/24/15 10:36		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-424D**      **Lab ID: 40113421006**      Collected: 04/17/15 13:40      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>409000</b>	ug/L	2000	150	1		04/29/15 14:12		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/21/15 22:21	79-00-5	
1,1-Dichloroethane	<b>0.54J</b>	ug/L	1.0	0.24	1		04/21/15 22:21	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/21/15 22:21	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/21/15 22:21	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 22:21	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 22:21	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:21	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 22:21	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 22:21	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/21/15 22:21	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/21/15 22:21	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	108-90-7	
Chloroethane	<b>1.8</b>	ug/L	1.0	0.37	1		04/21/15 22:21	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 22:21	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/21/15 22:21	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/21/15 22:21	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 22:21	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:21	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 22:21	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/21/15 22:21	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	108-88-3	
Trichloroethene	<b>2.3</b>	ug/L	1.0	0.33	1		04/21/15 22:21	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 22:21	75-69-4	
Vinyl chloride	<b>2.6</b>	ug/L	1.0	0.18	1		04/21/15 22:21	75-01-4	
cis-1,2-Dichloroethene	<b>79.6</b>	ug/L	1.0	0.26	1		04/21/15 22:21	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/21/15 22:21	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:21	95-47-6	
trans-1,2-Dichloroethene	<b>2.5</b>	ug/L	1.0	0.26	1		04/21/15 22:21	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-424D**      **Lab ID: 40113421006**      Collected: 04/17/15 13:40      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/15 22:21	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/21/15 22:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/21/15 22:21	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.46</b>	Std. Units			1		04/17/15 13:40		
Field Specific Conductance	<b>713</b>	umhos/cm			1		04/17/15 13:40		
Turbidity	<b>N</b>	NTU			1		04/17/15 13:40		
Apparent Color	<b>N</b>	no units			1		04/17/15 13:40		
Odor	<b>N</b>	no units			1		04/17/15 13:40		
Temperature, Water (C)	<b>16.7</b>	deg C			1		04/17/15 13:40		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>37.7</b>	mg/L	4.0	2.0	1		04/30/15 13:32	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>363</b>	mg/L	20.0	8.6	1		04/24/15 10:37		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-424SS**      **Lab ID: 40113421007**      Collected: 04/17/15 14:55      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>276000</b>	ug/L	2000	150	1		04/29/15 14:14		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/21/15 22:44	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/21/15 22:44	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/21/15 22:44	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/21/15 22:44	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 22:44	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 22:44	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:44	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/21/15 22:44	78-93-3	
Acetone	<b>3.7J</b>	ug/L	20.0	3.0	1		04/21/15 22:44	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/21/15 22:44	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/21/15 22:44	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		04/21/15 22:44	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 22:44	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/21/15 22:44	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/21/15 22:44	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/21/15 22:44	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:44	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/21/15 22:44	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/21/15 22:44	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		04/21/15 22:44	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 22:44	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/21/15 22:44	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 22:44	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/21/15 22:44	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/21/15 22:44	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		04/21/15 22:44	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: P-424SS**      **Lab ID: 40113421007**      Collected: 04/17/15 14:55      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/21/15 22:44	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/21/15 22:44	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/21/15 22:44	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/21/15 22:44	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.63</b>	Std. Units			1		04/17/15 14:55		
Field Specific Conductance	<b>475</b>	umhos/cm			1		04/17/15 14:55		
Turbidity	<b>N</b>	NTU			1		04/17/15 14:55		
Apparent Color	<b>N</b>	no units			1		04/17/15 14:55		
Odor	<b>N</b>	no units			1		04/17/15 14:55		
Temperature, Water (C)	<b>15.5</b>	deg C			1		04/17/15 14:55		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>2.8J</b>	mg/L	4.0	2.0	1		04/30/15 13:44	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>314</b>	mg/L	20.0	8.6	1		04/24/15 10:37		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: TRIP BLANK**      **Lab ID: 40113421008**      Collected: 04/17/15 00:00      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/22/15 01:21	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/22/15 01:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/22/15 01:21	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/22/15 01:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/22/15 01:21	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/22/15 01:21	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/22/15 01:21	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/22/15 01:21	78-93-3	
Acetone	8.5J	ug/L	20.0	3.0	1		04/22/15 01:21	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/22/15 01:21	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/22/15 01:21	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/22/15 01:21	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/22/15 01:21	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/22/15 01:21	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/22/15 01:21	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/22/15 01:21	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/22/15 01:21	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/22/15 01:21	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/22/15 01:21	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/22/15 01:21	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/22/15 01:21	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/22/15 01:21	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/15 01:21	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/22/15 01:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/22/15 01:21	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/15 01:21	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/22/15 01:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/22/15 01:21	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/22/15 01:21	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: TRIP BLANK**      **Lab ID: 40113421008**      Collected: 04/17/15 00:00      Received: 04/18/15 08:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	99	%	70-130		1		04/22/15 01:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Sample: **GAS CONDENSATE TANK** Lab ID: **40113217001** Collected: 04/15/15 14:30 Received: 04/16/15 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Sodium	<b>7480</b>	ug/L	1000	46.3	1	04/23/15 13:36	04/27/15 17:18	7440-23-5	
Total Hardness by 2340B	<b>250000</b>	ug/L	2000	150	1	04/23/15 13:36	04/24/15 20:23		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	71-55-6	
1,1,2-Trichloroethane	<b>&lt;9.9</b>	ug/L	50.0	9.9	50		04/17/15 13:40	79-00-5	
1,1-Dichloroethane	<b>&lt;12.1</b>	ug/L	50.0	12.1	50		04/17/15 13:40	75-34-3	
1,1-Dichloroethene	<b>&lt;20.5</b>	ug/L	50.0	20.5	50		04/17/15 13:40	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;108</b>	ug/L	250	108	50		04/17/15 13:40	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;8.9</b>	ug/L	50.0	8.9	50		04/17/15 13:40	106-93-4	
1,2-Dichlorobenzene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	95-50-1	
1,2-Dichloroethane	<b>&lt;8.4</b>	ug/L	50.0	8.4	50		04/17/15 13:40	107-06-2	
1,2-Dichloropropane	<b>&lt;11.7</b>	ug/L	50.0	11.7	50		04/17/15 13:40	78-87-5	
1,3-Dichlorobenzene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	541-73-1	
1,4-Dichlorobenzene	<b>47.6J</b>	ug/L	50.0	25.0	50		04/17/15 13:40	106-46-7	
2-Butanone (MEK)	<b>3550</b>	ug/L	1000	149	50		04/17/15 13:40	78-93-3	
Acetone	<b>4900</b>	ug/L	1000	148	50		04/17/15 13:40	67-64-1	
Benzene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	71-43-2	
Bromodichloromethane	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	75-27-4	
Bromoform	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	75-25-2	
Bromomethane	<b>&lt;122</b>	ug/L	250	122	50		04/17/15 13:40	74-83-9	
Carbon disulfide	<b>&lt;30.7</b>	ug/L	250	30.7	50		04/17/15 13:40	75-15-0	
Carbon tetrachloride	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	56-23-5	
Chlorobenzene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	108-90-7	
Chloroethane	<b>&lt;18.7</b>	ug/L	50.0	18.7	50		04/17/15 13:40	75-00-3	
Chloroform	<b>&lt;125</b>	ug/L	250	125	50		04/17/15 13:40	67-66-3	
Chloromethane	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	74-87-3	
Dibromochloromethane	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	124-48-1	
Dibromomethane	<b>&lt;21.3</b>	ug/L	50.0	21.3	50		04/17/15 13:40	74-95-3	
Dichlorodifluoromethane	<b>&lt;11.2</b>	ug/L	50.0	11.2	50		04/17/15 13:40	75-71-8	
Ethylbenzene	<b>202</b>	ug/L	50.0	25.0	50		04/17/15 13:40	100-41-4	
Methyl-tert-butyl ether	<b>&lt;8.7</b>	ug/L	50.0	8.7	50		04/17/15 13:40	1634-04-4	
Methylene Chloride	<b>&lt;11.6</b>	ug/L	50.0	11.6	50		04/17/15 13:40	75-09-2	
Naphthalene	<b>&lt;125</b>	ug/L	250	125	50		04/17/15 13:40	91-20-3	
Styrene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	100-42-5	
Tetrachloroethene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	127-18-4	
Tetrahydrofuran	<b>4030</b>	ug/L	250	102	50		04/17/15 13:40	109-99-9	
Toluene	<b>411</b>	ug/L	50.0	25.0	50		04/17/15 13:40	108-88-3	
Trichloroethene	<b>&lt;16.5</b>	ug/L	50.0	16.5	50		04/17/15 13:40	79-01-6	
Trichlorofluoromethane	<b>&lt;9.2</b>	ug/L	50.0	9.2	50		04/17/15 13:40	75-69-4	
Vinyl chloride	<b>17.2J</b>	ug/L	50.0	8.8	50		04/17/15 13:40	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;12.8</b>	ug/L	50.0	12.8	50		04/17/15 13:40	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;25.0</b>	ug/L	50.0	25.0	50		04/17/15 13:40	10061-01-5	
m&p-Xylene	<b>462</b>	ug/L	100	50.0	50		04/17/15 13:40	179601-23-1	
o-Xylene	<b>133</b>	ug/L	50.0	25.0	50		04/17/15 13:40	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;12.8</b>	ug/L	50.0	12.8	50		04/17/15 13:40	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

**Sample: GAS CONDENSATE TANK**    **Lab ID: 40113217001**    Collected: 04/15/15 14:30    Received: 04/16/15 07:35    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;11.5</b>	ug/L	50.0	11.5	50		04/17/15 13:40	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		50		04/17/15 13:40	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		50		04/17/15 13:40	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		04/17/15 13:40	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.31</b>	Std. Units			1		04/15/15 14:30		
Field Specific Conductance	<b>310</b>	umhos/cm			1		04/15/15 14:30		
Turbidity	<b>0</b>	NTU			1		04/15/15 14:30		
Apparent Color	<b>N</b>	no units			1		04/15/15 14:30		
Odor	<b>0</b>	no units			1		04/15/15 14:30		
Temperature, Water (C)	<b>11.1</b>	deg C			1		04/15/15 14:30		
<b>2540D Total Suspended Solids</b>		Analytical Method: SM 2540D							
Total Suspended Solids	<b>177</b>	mg/L	2.5	1.2	1		04/16/15 20:28		
<b>5210B BOD, 5 day</b>		Analytical Method: SM 5210B    Preparation Method: SM 5210B							
BOD, 5 day	<b>6330</b>	mg/L	6330	6330	3165	04/16/15 11:45	04/21/15 14:15		B1
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>28.7J</b>	mg/L	40.0	20.0	10		04/24/15 14:15	16887-00-6	D3
Sulfate	<b>30.3J</b>	mg/L	40.0	20.0	10		04/24/15 14:15	14808-79-8	D3
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>206</b>	mg/L	20.0	7.5	1		04/21/15 14:28		
<b>350.1 Ammonia, Distilled</b>		Analytical Method: EPA 350.1    Preparation Method: EPA 350.1							
Nitrogen, Ammonia	<b>10.3</b>	mg/L	6.0	3.0	1	04/20/15 17:07	04/20/15 20:04	7664-41-7	
<b>410.4 COD</b>		Analytical Method: EPA 410.4    Preparation Method: EPA 410.4							
Chemical Oxygen Demand	<b>11900</b>	mg/L	1000	231	1	04/27/15 10:26	04/27/15 14:03		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: TRIP BLANK**      **Lab ID: 40113217002**      Collected: 04/15/15 00:00      Received: 04/16/15 07:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/17/15 20:32	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/17/15 20:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/17/15 20:32	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/17/15 20:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/17/15 20:32	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/17/15 20:32	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/17/15 20:32	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/17/15 20:32	78-93-3	
Acetone	11.4J	ug/L	20.0	3.0	1		04/17/15 20:32	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/17/15 20:32	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/17/15 20:32	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/17/15 20:32	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/17/15 20:32	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/17/15 20:32	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/17/15 20:32	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/17/15 20:32	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/17/15 20:32	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/17/15 20:32	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/17/15 20:32	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/17/15 20:32	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/17/15 20:32	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/17/15 20:32	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/17/15 20:32	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/17/15 20:32	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/17/15 20:32	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/17/15 20:32	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/17/15 20:32	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/17/15 20:32	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/17/15 20:32	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: TRIP BLANK**      **Lab ID: 40113217002**      Collected: 04/15/15 00:00      Received: 04/16/15 07:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1		04/17/15 20:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-8R**      **Lab ID: 40113304031**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>931.84</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-203A**      **Lab ID: 40113304032**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>928.30</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-6R**      **Lab ID: 40113304033**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>925.90</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-7R**      **Lab ID: 40113304034**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>925.82</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201**      **Lab ID: 40113304035**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>927.04</b>	feet			1		04/13/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201**      **Lab ID: 40113304036**      Collected: 04/17/15 15:20      Received: 05/13/15 19:32      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.30</b>	Std. Units			1		04/17/15 15:20		
Field Specific Conductance	<b>1012</b>	umhos/cm			1		04/17/15 15:20		
Turbidity	<b>0</b>	NTU			1		04/17/15 15:20		
Apparent Color	<b>0</b>	no units			1		04/17/15 15:20		
Odor	<b>0</b>	no units			1		04/17/15 15:20		
Temperature, Water (C)	<b>13.1</b>	deg C			1		04/17/15 15:20		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201A**      **Lab ID: 40113304037**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>926.13</b>	feet			1		04/13/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201A**      **Lab ID: 40113304038**      Collected: 04/17/15 15:05      Received: 05/13/15 19:32      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.39</b>	Std. Units			1		04/17/15 15:05		
Field Specific Conductance	<b>980</b>	umhos/cm			1		04/17/15 15:05		
Turbidity	<b>0</b>	NTU			1		04/17/15 15:05		
Apparent Color	<b>0</b>	no units			1		04/17/15 15:05		
Odor	<b>N</b>	no units			1		04/17/15 15:05		
Temperature, Water (C)	<b>15.7</b>	deg C			1		04/17/15 15:05		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201B**      **Lab ID: 40113304039**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:

Static Water Level	<b>926.52</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-201B**      **Lab ID: 40113304040**      Collected: 04/17/15 15:15      Received: 05/13/15 19:32      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.61</b>	Std. Units			1		04/17/15 15:15		
Field Specific Conductance	<b>517</b>	umhos/cm			1		04/17/15 15:15		
Turbidity	<b>0</b>	NTU			1		04/17/15 15:15		
Apparent Color	<b>0</b>	no units			1		04/17/15 15:15		
Odor	<b>N</b>	no units			1		04/17/15 15:15		
Temperature, Water (C)	<b>14.4</b>	deg C			1		04/17/15 15:15		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: W-163**      **Lab ID: 40113304041**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>925.63</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: W-163A**      **Lab ID: 40113304042**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>927.15</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-210A**      **Lab ID: 40113304043**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>926.83</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-210**      **Lab ID: 40113304044**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>926.71</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-210B**      **Lab ID: 40113304045**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:

Static Water Level	<b>926.63</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-214**      **Lab ID: 40113304046**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>925.47</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-214A**      **Lab ID: 40113304047**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>926.89</b>	feet			1		04/13/15 00:00		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: W-3R**                      **Lab ID: 40113304048**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**                      Analytical Method:

Static Water Level	<b>927.75</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: W-3AR**                      **Lab ID: 40113304049**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	<b>927.37</b>	feet			1		04/13/15 00:00		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-1RR**      **Lab ID: 40113304050**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>929.42</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-1AR**                      **Lab ID: 40113304051**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>928.09</b>	feet			1		04/13/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: SW-2**                      **Lab ID: 40113304052**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:

Static Water Level	<b>926.02</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: SW-3**                      **Lab ID: 40113304053**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>925.82</b>	feet			1		04/13/15 00:00		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: SW-4**                                      **Lab ID: 40113304054**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**                                      Analytical Method:

Static Water Level	<b>928.14</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: SW-5**      **Lab ID: 40113304055**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:

Well Broken	0	no units			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-423D**      **Lab ID: 40113304056**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>852.11</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-424D**                      **Lab ID: 40113304057**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method:									
Static Water Level	<b>852.50</b>	feet			1		04/13/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-424SS**      **Lab ID: 40113304058**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:

Static Water Level	<b>852.16</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-422B**      **Lab ID: 40113304059**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>927.34</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-1B**                      **Lab ID: 40113304060**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>925.57</b>	feet			1		04/13/15 00:00		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-401D**      **Lab ID: 40113304061**      Collected: 04/13/15 00:00      Received: 05/13/15 19:32      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>853.55</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: P-402E**                      **Lab ID: 40113304062**    Collected: 04/13/15 00:00    Received: 05/13/15 19:32    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:

Static Water Level	<b>853.63</b>	feet			1		04/13/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: MW-204A**      **Lab ID: 40113226006**      Collected: 04/15/15 13:00      Received: 04/16/15 07:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>1.4</b>	ug/L	1.0	0.099	1	04/21/15 10:52	04/22/15 19:14	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>615</b>	mg/L	5.0	0.15	1	04/21/15 10:52	04/22/15 19:14		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.67</b>	Std. Units			1		04/15/15 13:00		
Field Specific Conductance	<b>1154</b>	umhos/cm			1		04/15/15 13:00		
Turbidity	<b>N</b>	NTU			1		04/15/15 13:00		
Apparent Color	<b>N</b>	no units			1		04/15/15 13:00		
Odor	<b>N</b>	no units			1		04/15/15 13:00		
Temperature, Water (C)	<b>11.5</b>	deg C			1		04/15/15 13:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>44.4</b>	mg/L	4.0	2.0	1		04/27/15 22:51	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>466</b>	mg/L	100	43.2	5		04/21/15 14:45		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

**Sample: A-3A**      **Lab ID: 40113226007**      Collected: 04/15/15 12:35      Received: 04/16/15 07:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.23J</b>	ug/L	1.0	0.099	1	04/21/15 10:52	04/22/15 19:20	7440-38-2	
Total Hardness by 2340B, Dissolved	<b>410</b>	mg/L	5.0	0.15	1	04/21/15 10:52	04/22/15 19:20		
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.63</b>	Std. Units			1		04/15/15 12:35		
Field Specific Conductance	<b>747</b>	umhos/cm			1		04/15/15 12:35		
Turbidity	<b>N</b>	NTU			1		04/15/15 12:35		
Apparent Color	<b>N</b>	no units			1		04/15/15 12:35		
Odor	<b>N</b>	no units			1		04/15/15 12:35		
Temperature, Water (C)	<b>11.5</b>	deg C			1		04/15/15 12:35		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>5.6</b>	mg/L	4.0	2.0	1		04/27/15 23:03	16887-00-6	B
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>381</b>	mg/L	20.0	8.6	1		04/21/15 14:45		

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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: A-3A**      **Lab ID: 40113171081**      Collected: 04/13/15 00:00      Received: 05/13/15 19:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>947.47</b>	feet			1		04/13/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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**Sample: MW-204A**      **Lab ID: 40113171082**      Collected: 04/13/15 00:00      Received: 05/13/15 19:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----	-----	----	----------	----------	---------	------

**Field Data**      Analytical Method:

Static Water Level	<b>938.97</b>	feet			1		04/13/15 00:00		
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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	MPRP/11769	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	40113217001		

METHOD BLANK: 1146166 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sodium	ug/L	<46.3	1000	04/27/15 16:57	
Total Hardness by 2340B	ug/L	<150	2000	04/24/15 20:09	

LABORATORY CONTROL SAMPLE: 1146167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	ug/L	5000	5020	100	80-120	
Total Hardness by 2340B	ug/L		33600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1146168 1146169

Parameter	Units	40113389008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Sodium	ug/L	169000	5000	169000	170000	203000	-2	12	75-125	0	20	P6
Total Hardness by 2340B	ug/L	175000		204000	203000					0	20	

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.

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MPRP/11754 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40113226006, 40113226007, 40113341001, 40113341002

METHOD BLANK: 1144523 Matrix: Water  
 Associated Lab Samples: 40113226006, 40113226007, 40113341001, 40113341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	04/22/15 17:19	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	04/22/15 17:19	

LABORATORY CONTROL SAMPLE: 1144524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	486	97	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.7			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144525 1144526

Parameter	Units	40113189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	1.5	500	500	497	494	99	99	75-125	1	20	
Total Hardness by 2340B, Dissolved	mg/L	143			175	177				1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MPRP/11774 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40113420001, 40113420002, 40113420003, 40113420004

METHOD BLANK: 1146496 Matrix: Water  
 Associated Lab Samples: 40113420001, 40113420002, 40113420003, 40113420004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	04/25/15 06:20	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	04/25/15 06:20	

LABORATORY CONTROL SAMPLE: 1146497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	481	96	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1146498 1146499

Parameter	Units	40113420002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L		500	500	494	508	98	100	75-125	3	20	
Total Hardness by 2340B, Dissolved	mg/L	643			665	701				5	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MPRP/11926 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009, 40113419001, 40113419002

METHOD BLANK: 1161573 Matrix: Water  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009, 40113419001, 40113419002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	05/23/15 06:33	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	05/23/15 06:33	

LABORATORY CONTROL SAMPLE: 1161574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	511	102	80-120	
Total Hardness by 2340B, Dissolved	mg/L		33.8			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1161575 1161576

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40113238003 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	<1.0	500	500	505	515	101	103	75-125	2	20
Total Hardness by 2340B, Dissolved	mg/L	53.1			83.8	83.5				0	20

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MSV/28087 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40113217001, 40113217002

METHOD BLANK: 1142588 Matrix: Water

Associated Lab Samples: 40113217001, 40113217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/17/15 06:44	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/17/15 06:44	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/17/15 06:44	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/17/15 06:44	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/17/15 06:44	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/17/15 06:44	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/17/15 06:44	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/17/15 06:44	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/17/15 06:44	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/17/15 06:44	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/17/15 06:44	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/17/15 06:44	
Acetone	ug/L	<3.0	20.0	04/17/15 06:44	
Benzene	ug/L	<0.50	1.0	04/17/15 06:44	
Bromodichloromethane	ug/L	<0.50	1.0	04/17/15 06:44	
Bromoform	ug/L	<0.50	1.0	04/17/15 06:44	
Bromomethane	ug/L	<2.4	5.0	04/17/15 06:44	
Carbon disulfide	ug/L	<0.61	5.0	04/17/15 06:44	
Carbon tetrachloride	ug/L	<0.50	1.0	04/17/15 06:44	
Chlorobenzene	ug/L	<0.50	1.0	04/17/15 06:44	
Chloroethane	ug/L	<0.37	1.0	04/17/15 06:44	
Chloroform	ug/L	<2.5	5.0	04/17/15 06:44	
Chloromethane	ug/L	<0.50	1.0	04/17/15 06:44	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/17/15 06:44	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/17/15 06:44	
Dibromochloromethane	ug/L	<0.50	1.0	04/17/15 06:44	
Dibromomethane	ug/L	<0.43	1.0	04/17/15 06:44	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/17/15 06:44	
Ethylbenzene	ug/L	<0.50	1.0	04/17/15 06:44	
m&p-Xylene	ug/L	<1.0	2.0	04/17/15 06:44	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/17/15 06:44	
Methylene Chloride	ug/L	<0.23	1.0	04/17/15 06:44	
Naphthalene	ug/L	<2.5	5.0	04/17/15 06:44	
o-Xylene	ug/L	<0.50	1.0	04/17/15 06:44	
Styrene	ug/L	<0.50	1.0	04/17/15 06:44	
Tetrachloroethene	ug/L	<0.50	1.0	04/17/15 06:44	
Tetrahydrofuran	ug/L	<2.0	5.0	04/17/15 06:44	
Toluene	ug/L	<0.50	1.0	04/17/15 06:44	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/17/15 06:44	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/17/15 06:44	
Trichloroethene	ug/L	<0.33	1.0	04/17/15 06:44	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Project No.: 40113304

METHOD BLANK: 1142588

Matrix: Water

Associated Lab Samples: 40113217001, 40113217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/17/15 06:44	
Vinyl chloride	ug/L	<0.18	1.0	04/17/15 06:44	
4-Bromofluorobenzene (S)	%	97	70-130	04/17/15 06:44	
Dibromofluoromethane (S)	%	102	70-130	04/17/15 06:44	
Toluene-d8 (S)	%	101	70-130	04/17/15 06:44	

LABORATORY CONTROL SAMPLE & LCSD: 1142589

1142590

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.9	51.1	100	102	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	52.8	54.1	106	108	70-130	2	20	
1,1-Dichloroethane	ug/L	50	55.3	55.5	111	111	70-130	0	20	
1,1-Dichloroethene	ug/L	50	60.2	60.2	120	120	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	50	34.4	35.4	69	71	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	54.1	108	108	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	51.4	50.9	103	102	70-130	1	20	
1,2-Dichloroethane	ug/L	50	57.2	56.9	114	114	70-131	0	20	
1,2-Dichloropropane	ug/L	50	53.0	53.3	106	107	70-130	1	20	
1,3-Dichlorobenzene	ug/L	50	52.0	51.3	104	103	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	53.3	52.1	107	104	70-130	2	20	
Benzene	ug/L	50	56.3	55.7	113	111	70-130	1	20	
Bromodichloromethane	ug/L	50	52.5	53.4	105	107	70-130	2	20	
Bromoform	ug/L	50	41.2	41.6	82	83	68-130	1	20	
Bromomethane	ug/L	50	53.4	56.3	107	113	38-137	5	20	
Carbon disulfide	ug/L	50	56.8	57.5	114	115	70-154	1	20	
Carbon tetrachloride	ug/L	50	51.7	53.0	103	106	70-130	2	20	
Chlorobenzene	ug/L	50	54.3	55.0	109	110	70-130	1	20	
Chloroethane	ug/L	50	59.7	60.1	119	120	70-136	1	20	
Chloroform	ug/L	50	56.2	56.6	112	113	70-130	1	20	
Chloromethane	ug/L	50	60.6	61.1	121	122	48-144	1	20	
cis-1,2-Dichloroethene	ug/L	50	55.7	54.9	111	110	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	42.5	42.5	85	85	70-130	0	20	
Dibromochloromethane	ug/L	50	46.7	47.5	93	95	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	48.7	49.1	97	98	33-157	1	20	
Ethylbenzene	ug/L	50	56.0	56.2	112	112	70-132	0	20	
m&p-Xylene	ug/L	100	113	113	113	113	70-131	0	20	
Methyl-tert-butyl ether	ug/L	50	45.4	45.6	91	91	48-141	1	20	
Methylene Chloride	ug/L	50	57.3	58.2	115	116	70-130	2	20	
o-Xylene	ug/L	50	54.0	54.9	108	110	70-131	2	20	
Styrene	ug/L	50	54.9	56.5	110	113	70-130	3	20	
Tetrachloroethene	ug/L	50	54.5	54.1	109	108	70-130	1	20	
Toluene	ug/L	50	56.0	56.3	112	113	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	58.6	59.5	117	119	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	35.9	36.3	72	73	70-130	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

LABORATORY CONTROL SAMPLE & LCSD:		1142589		1142590							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	54.7	54.9	109	110	70-130	0	20		
Trichlorofluoromethane	ug/L	50	64.3	64.9	129	130	50-150	1	20		
Vinyl chloride	ug/L	50	60.7	60.6	121	121	65-142	0	20		
4-Bromofluorobenzene (S)	%				100	103	70-130				
Dibromofluoromethane (S)	%				111	110	70-130				
Toluene-d8 (S)	%				100	101	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1142775		1142776							
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40113234001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	250	250	262	251	105	100	70-130	4	20
1,1,2-Trichloroethane	ug/L	<0.20	250	250	269	271	108	108	70-130	1	20
1,1-Dichloroethane	ug/L	1.1	250	250	284	275	113	110	70-134	3	20
1,1-Dichloroethene	ug/L	<0.41	250	250	307	298	123	119	70-139	3	20
1,2-Dibromo-3-chloropropane	ug/L	<2.2	250	250	186	186	74	74	50-150	0	20
1,2-Dibromoethane (EDB)	ug/L	<0.18	250	250	276	269	110	108	70-130	2	20
1,2-Dichlorobenzene	ug/L	<0.50	250	250	267	261	107	104	70-130	2	20
1,2-Dichloroethane	ug/L	<0.17	250	250	293	283	117	113	70-132	4	20
1,2-Dichloropropane	ug/L	2.3	250	250	271	265	108	105	70-130	2	20
1,3-Dichlorobenzene	ug/L	<0.50	250	250	271	263	108	105	70-130	3	20
1,4-Dichlorobenzene	ug/L	<0.50	250	250	268	262	107	105	70-130	2	20
Benzene	ug/L	<0.50	250	250	286	278	115	111	70-130	3	20
Bromodichloromethane	ug/L	<0.50	250	250	269	262	108	105	70-132	3	20
Bromoform	ug/L	<0.50	250	250	206	209	83	83	68-130	1	20
Bromomethane	ug/L	<2.4	250	250	293	274	117	110	38-141	7	20
Carbon disulfide	ug/L	1.7J	250	250	300	286	119	114	70-155	5	20
Carbon tetrachloride	ug/L	<0.50	250	250	267	264	107	106	70-130	1	20
Chlorobenzene	ug/L	<0.50	250	250	284	274	114	109	70-130	4	20
Chloroethane	ug/L	<0.37	250	250	305	297	122	119	66-152	3	20
Chloroform	ug/L	<2.5	250	250	288	278	115	111	70-130	4	20
Chloromethane	ug/L	<0.50	250	250	305	288	122	115	44-151	6	20
cis-1,2-Dichloroethene	ug/L	<0.26	250	250	283	273	113	109	70-130	4	20
cis-1,3-Dichloropropene	ug/L	<0.50	250	250	217	212	87	85	70-130	3	20
Dibromochloromethane	ug/L	<0.50	250	250	243	235	97	94	70-130	4	20
Dichlorodifluoromethane	ug/L	<0.22	250	250	250	241	100	97	29-160	3	20
Ethylbenzene	ug/L	<0.50	250	250	286	277	114	110	70-132	3	20
m&p-Xylene	ug/L	<1.0	500	500	575	561	115	112	70-131	3	20
Methyl-tert-butyl ether	ug/L	<0.17	250	250	232	225	93	90	48-143	3	20
Methylene Chloride	ug/L	<0.23	250	250	295	282	118	113	70-130	5	20
o-Xylene	ug/L	<0.50	250	250	280	269	112	107	70-131	4	20
Styrene	ug/L	<0.50	250	250	279	275	112	110	70-130	2	20
Tetrachloroethene	ug/L	3.0	250	250	283	272	112	108	70-130	4	20
Toluene	ug/L	<0.50	250	250	287	281	115	112	70-130	2	20

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Parameter	Units	1142775		1142776		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40113234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
trans-1,2-Dichloroethene	ug/L	<0.26	250	250	302	293	121	117	70-132	3	20
trans-1,3-Dichloropropene	ug/L	<0.23	250	250	185	182	74	73	70-130	1	20
Trichloroethene	ug/L	<0.33	250	250	282	274	113	110	70-130	3	20
Trichlorofluoromethane	ug/L	<0.18	250	250	336	321	134	128	50-153	4	20
Vinyl chloride	ug/L	<0.18	250	250	308	295	123	118	60-155	4	20
4-Bromofluorobenzene (S)	%						103	103	70-130		
Dibromofluoromethane (S)	%						109	108	70-130		
Toluene-d8 (S)	%						100	102	70-130		

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MSV/28108 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304010, 40113341003

METHOD BLANK: 1143636 Matrix: Water  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304010, 40113341003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/18/15 10:41	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/18/15 10:41	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/18/15 10:41	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/18/15 10:41	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/18/15 10:41	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/18/15 10:41	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/18/15 10:41	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/18/15 10:41	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/18/15 10:41	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/18/15 10:41	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/18/15 10:41	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/18/15 10:41	
Acetone	ug/L	<3.0	20.0	04/18/15 10:41	
Benzene	ug/L	<0.50	1.0	04/18/15 10:41	
Bromodichloromethane	ug/L	<0.50	1.0	04/18/15 10:41	
Bromoform	ug/L	<0.50	1.0	04/18/15 10:41	
Bromomethane	ug/L	<2.4	5.0	04/18/15 10:41	1q
Carbon disulfide	ug/L	<0.61	5.0	04/18/15 10:41	
Carbon tetrachloride	ug/L	<0.50	1.0	04/18/15 10:41	
Chlorobenzene	ug/L	<0.50	1.0	04/18/15 10:41	
Chloroethane	ug/L	<0.37	1.0	04/18/15 10:41	
Chloroform	ug/L	<2.5	5.0	04/18/15 10:41	
Chloromethane	ug/L	<0.50	1.0	04/18/15 10:41	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/18/15 10:41	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/18/15 10:41	
Dibromochloromethane	ug/L	<0.50	1.0	04/18/15 10:41	
Dibromomethane	ug/L	<0.43	1.0	04/18/15 10:41	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/18/15 10:41	
Ethylbenzene	ug/L	<0.50	1.0	04/18/15 10:41	
m&p-Xylene	ug/L	<1.0	2.0	04/18/15 10:41	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/18/15 10:41	
Methylene Chloride	ug/L	<0.23	1.0	04/18/15 10:41	
Naphthalene	ug/L	<2.5	5.0	04/18/15 10:41	
o-Xylene	ug/L	<0.50	1.0	04/18/15 10:41	
Styrene	ug/L	<0.50	1.0	04/18/15 10:41	
Tetrachloroethene	ug/L	<0.50	1.0	04/18/15 10:41	
Tetrahydrofuran	ug/L	<2.0	5.0	04/18/15 10:41	
Toluene	ug/L	<0.50	1.0	04/18/15 10:41	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/18/15 10:41	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/18/15 10:41	
Trichloroethene	ug/L	<0.33	1.0	04/18/15 10:41	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Project No.: 40113304

METHOD BLANK: 1143636

Matrix: Water

Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304010, 40113341003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/18/15 10:41	
Vinyl chloride	ug/L	<0.18	1.0	04/18/15 10:41	
4-Bromofluorobenzene (S)	%	96	70-130	04/18/15 10:41	
Dibromofluoromethane (S)	%	108	70-130	04/18/15 10:41	
Toluene-d8 (S)	%	102	70-130	04/18/15 10:41	

LABORATORY CONTROL SAMPLE & LCSD: 1143637

1143638

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	53.8	105	108	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	53.1	54.2	106	108	70-130	2	20	
1,1-Dichloroethane	ug/L	50	57.3	58.2	115	116	70-130	2	20	
1,1-Dichloroethene	ug/L	50	64.2	64.4	128	129	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	50	35.3	36.5	71	73	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	53.9	107	108	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	49.6	49.8	99	100	70-130	0	20	
1,2-Dichloroethane	ug/L	50	58.8	58.5	118	117	70-131	0	20	
1,2-Dichloropropane	ug/L	50	52.9	54.2	106	108	70-130	2	20	
1,3-Dichlorobenzene	ug/L	50	48.9	50.3	98	101	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	51.0	51.7	102	103	70-130	1	20	
Benzene	ug/L	50	55.9	55.8	112	112	70-130	0	20	
Bromodichloromethane	ug/L	50	53.6	56.0	107	112	70-130	4	20	
Bromoform	ug/L	50	43.8	43.9	88	88	68-130	0	20	
Bromomethane	ug/L	50	55.8	60.3	112	121	38-137	8	20	CC
Carbon disulfide	ug/L	50	62.4	63.0	125	126	70-154	1	20	
Carbon tetrachloride	ug/L	50	57.4	58.3	115	117	70-130	2	20	
Chlorobenzene	ug/L	50	54.6	55.5	109	111	70-130	2	20	
Chloroethane	ug/L	50	66.0	66.3	132	133	70-136	0	20	
Chloroform	ug/L	50	57.2	57.9	114	116	70-130	1	20	
Chloromethane	ug/L	50	73.1	73.4	146	147	48-144	0	20	L0
cis-1,2-Dichloroethene	ug/L	50	56.2	56.5	112	113	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	42.4	44.9	85	90	70-130	6	20	
Dibromochloromethane	ug/L	50	49.1	50.0	98	100	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	70.8	69.9	142	140	33-157	1	20	
Ethylbenzene	ug/L	50	55.9	57.0	112	114	70-132	2	20	
m&p-Xylene	ug/L	100	113	114	113	114	70-131	0	20	
Methyl-tert-butyl ether	ug/L	50	44.8	46.4	90	93	48-141	4	20	
Methylene Chloride	ug/L	50	59.7	60.4	119	121	70-130	1	20	
o-Xylene	ug/L	50	53.7	54.0	107	108	70-131	0	20	
Styrene	ug/L	50	55.0	56.2	110	112	70-130	2	20	
Tetrachloroethene	ug/L	50	54.4	55.8	109	112	70-130	3	20	
Toluene	ug/L	50	55.8	56.9	112	114	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	61.1	62.5	122	125	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	37.3	38.2	75	76	70-130	2	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

LABORATORY CONTROL SAMPLE & LCSD:		1143637		1143638							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	54.5	56.1	109	112	70-130	3	20		
Trichlorofluoromethane	ug/L	50	72.2	73.2	144	146	50-150	1	20		
Vinyl chloride	ug/L	50	70.3	70.9	141	142	65-142	1	20		
4-Bromofluorobenzene (S)	%				105	105	70-130				
Dibromofluoromethane (S)	%				116	115	70-130				
Toluene-d8 (S)	%				100	102	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1143667		1143668								
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40113352009 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.9	51.4	104	103	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.4	52.9	105	106	70-130	1	20	
1,1-Dichloroethane	ug/L	0.70J	50	50	56.5	56.3	112	111	70-134	0	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	61.3	61.9	123	124	70-139	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	33.9	35.4	68	71	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.5	52.7	105	105	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.5	49.0	97	98	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	56.7	56.9	113	114	70-132	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	52.6	53.0	105	106	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.3	49.4	97	99	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.0	51.3	100	103	70-130	3	20	
Benzene	ug/L	0.68J	50	50	54.5	55.0	108	109	70-130	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	53.2	53.4	106	107	70-132	0	20	
Bromoform	ug/L	<0.50	50	50	42.7	43.0	85	86	68-130	1	20	
Bromomethane	ug/L	<2.4	50	50	60.7	61.3	121	123	38-141	1	20	CC
Carbon disulfide	ug/L	<0.61	50	50	60.7	60.9	121	122	70-155	0	20	
Carbon tetrachloride	ug/L	<0.50	50	50	55.2	54.7	110	109	70-130	1	20	
Chlorobenzene	ug/L	<0.50	50	50	54.6	54.2	109	108	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	64.1	64.0	128	128	66-152	0	20	
Chloroform	ug/L	<2.5	50	50	56.5	56.1	113	112	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	69.4	71.3	139	143	44-151	3	20	
cis-1,2-Dichloroethene	ug/L	0.97J	50	50	51.3	49.6	101	97	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	42.3	42.4	85	85	70-130	0	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.8	47.8	98	96	70-130	2	20	
Dichlorodifluoromethane	ug/L	0.53J	50	50	68.8	69.7	137	138	29-160	1	20	
Ethylbenzene	ug/L	<0.50	50	50	55.0	54.9	110	110	70-132	0	20	
m&p-Xylene	ug/L	<1.0	100	100	112	111	112	111	70-131	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.4	45.0	89	90	48-143	1	20	
Methylene Chloride	ug/L	<0.23	50	50	58.1	57.9	116	116	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	53.2	53.4	106	107	70-131	0	20	
Styrene	ug/L	<0.50	50	50	54.8	54.5	110	109	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	53.8	54.1	108	108	70-130	0	20	
Toluene	ug/L	<0.50	50	50	55.1	55.5	110	111	70-130	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Parameter	Units	1143667		1143668		MS % Rec	MSD % Rec	% Rec	Limits	Max RPD	RPD	Qual
		40113352009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	60.4	60.2	121	120	70-132	0	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	37.2	37.0	74	74	70-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	53.5	53.4	107	107	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	69.5	69.9	139	140	50-153	1	20	
Vinyl chloride	ug/L	4.3	50	50	71.7	72.7	135	137	60-155	1	20	
4-Bromofluorobenzene (S)	%						107	105	70-130			
Dibromofluoromethane (S)	%						111	113	70-130			
Toluene-d8 (S)	%						103	102	70-130			

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MSV/28122 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40113419001, 40113419002, 40113420005, 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007, 40113421008

METHOD BLANK: 1144216 Matrix: Water  
 Associated Lab Samples: 40113419001, 40113419002, 40113420005, 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007, 40113421008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/21/15 16:13	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/21/15 16:13	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/21/15 16:13	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/21/15 16:13	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/21/15 16:13	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/21/15 16:13	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/21/15 16:13	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/21/15 16:13	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/21/15 16:13	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/21/15 16:13	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/21/15 16:13	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/21/15 16:13	
Acetone	ug/L	<3.0	20.0	04/21/15 16:13	
Benzene	ug/L	<0.50	1.0	04/21/15 16:13	
Bromodichloromethane	ug/L	<0.50	1.0	04/21/15 16:13	
Bromoform	ug/L	<0.50	1.0	04/21/15 16:13	
Bromomethane	ug/L	<2.4	5.0	04/21/15 16:13	
Carbon disulfide	ug/L	<0.61	5.0	04/21/15 16:13	
Carbon tetrachloride	ug/L	<0.50	1.0	04/21/15 16:13	
Chlorobenzene	ug/L	<0.50	1.0	04/21/15 16:13	
Chloroethane	ug/L	<0.37	1.0	04/21/15 16:13	
Chloroform	ug/L	<2.5	5.0	04/21/15 16:13	
Chloromethane	ug/L	<0.50	1.0	04/21/15 16:13	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/21/15 16:13	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/21/15 16:13	
Dibromochloromethane	ug/L	<0.50	1.0	04/21/15 16:13	
Dibromomethane	ug/L	<0.43	1.0	04/21/15 16:13	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/21/15 16:13	
Ethylbenzene	ug/L	<0.50	1.0	04/21/15 16:13	
m&p-Xylene	ug/L	<1.0	2.0	04/21/15 16:13	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/21/15 16:13	
Methylene Chloride	ug/L	<0.23	1.0	04/21/15 16:13	
Naphthalene	ug/L	<2.5	5.0	04/21/15 16:13	
o-Xylene	ug/L	<0.50	1.0	04/21/15 16:13	
Styrene	ug/L	<0.50	1.0	04/21/15 16:13	
Tetrachloroethene	ug/L	<0.50	1.0	04/21/15 16:13	
Tetrahydrofuran	ug/L	<2.0	5.0	04/21/15 16:13	
Toluene	ug/L	<0.50	1.0	04/21/15 16:13	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/21/15 16:13	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/21/15 16:13	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

METHOD BLANK: 1144216

Matrix: Water

Associated Lab Samples: 40113419001, 40113419002, 40113420005, 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007, 40113421008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.33	1.0	04/21/15 16:13	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/21/15 16:13	
Vinyl chloride	ug/L	<0.18	1.0	04/21/15 16:13	
4-Bromofluorobenzene (S)	%	96	70-130	04/21/15 16:13	
Dibromofluoromethane (S)	%	99	70-130	04/21/15 16:13	
Toluene-d8 (S)	%	100	70-130	04/21/15 16:13	

LABORATORY CONTROL SAMPLE & LCSD: 1144217

1144218

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	49.0	102	98	70-130	4	20	
1,1,2-Trichloroethane	ug/L	50	50.6	48.8	101	98	70-130	4	20	
1,1-Dichloroethane	ug/L	50	48.8	46.7	98	93	70-130	5	20	
1,1-Dichloroethene	ug/L	50	51.8	49.7	104	99	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	50	44.9	49.5	90	99	50-150	10	20	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	50.3	100	101	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	48.9	47.5	98	95	70-130	3	20	
1,2-Dichloroethane	ug/L	50	47.9	46.4	96	93	70-131	3	20	
1,2-Dichloropropane	ug/L	50	49.3	46.9	99	94	70-130	5	20	
1,3-Dichlorobenzene	ug/L	50	48.9	47.0	98	94	70-130	4	20	
1,4-Dichlorobenzene	ug/L	50	47.9	47.1	96	94	70-130	2	20	
Benzene	ug/L	50	48.3	46.5	97	93	70-130	4	20	
Bromodichloromethane	ug/L	50	49.8	47.3	100	95	70-130	5	20	
Bromoform	ug/L	50	48.4	49.5	97	99	68-130	2	20	
Bromomethane	ug/L	50	32.9	34.3	66	69	38-137	4	20	
Carbon disulfide	ug/L	50	53.9	49.4	108	99	70-154	9	20	
Carbon tetrachloride	ug/L	50	49.9	49.5	100	99	70-130	1	20	
Chlorobenzene	ug/L	50	50.7	49.6	101	99	70-130	2	20	
Chloroethane	ug/L	50	47.7	45.5	95	91	70-136	5	20	
Chloroform	ug/L	50	48.8	46.4	98	93	70-130	5	20	
Chloromethane	ug/L	50	44.0	40.5	88	81	48-144	8	20	
cis-1,2-Dichloroethene	ug/L	50	48.9	46.3	98	93	70-130	6	20	
cis-1,3-Dichloropropene	ug/L	50	47.5	46.5	95	93	70-130	2	20	
Dibromochloromethane	ug/L	50	50.2	47.7	100	95	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	43.9	37.3	88	75	33-157	16	20	
Ethylbenzene	ug/L	50	51.5	50.7	103	101	70-132	1	20	
m&p-Xylene	ug/L	100	105	102	105	102	70-131	3	20	
Methyl-tert-butyl ether	ug/L	50	45.8	45.8	92	92	48-141	0	20	
Methylene Chloride	ug/L	50	46.2	44.2	92	88	70-130	4	20	
o-Xylene	ug/L	50	51.1	49.7	102	99	70-131	3	20	
Styrene	ug/L	50	51.7	50.5	103	101	70-130	2	20	
Tetrachloroethene	ug/L	50	51.4	49.3	103	99	70-130	4	20	
Toluene	ug/L	50	51.6	49.0	103	98	70-130	5	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

LABORATORY CONTROL SAMPLE & LCSD:		1144217		1144218							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
trans-1,2-Dichloroethene	ug/L	50	51.0	49.0	102	98	70-130	4	20		
trans-1,3-Dichloropropene	ug/L	50	47.1	47.0	94	94	70-130	0	20		
Trichloroethene	ug/L	50	51.4	49.1	103	98	70-130	5	20		
Trichlorofluoromethane	ug/L	50	52.1	49.0	104	98	50-150	6	20		
Vinyl chloride	ug/L	50	50.2	45.5	100	91	65-142	10	20		
4-Bromofluorobenzene (S)	%				100	101	70-130				
Dibromofluoromethane (S)	%				100	99	70-130				
Toluene-d8 (S)	%				100	100	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1144725		1144726								
Parameter	Units	40113421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	46.5	50.9	93	102	70-130	9	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.0	52.8	100	106	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	43.9	48.3	88	97	70-134	10	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	47.7	51.5	95	103	70-139	8	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	46.7	52.7	93	105	50-150	12	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.0	52.6	100	105	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.5	49.8	101	100	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	43.2	49.2	86	98	70-132	13	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.6	50.4	97	101	70-130	4	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.2	50.7	102	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.1	49.5	100	99	70-130	1	20	
Benzene	ug/L	<0.50	50	50	43.6	47.8	87	96	70-130	9	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.5	50.5	99	101	70-132	2	20	
Bromoform	ug/L	<0.50	50	50	49.3	52.3	99	105	68-130	6	20	
Bromomethane	ug/L	<2.4	50	50	32.2	35.1	64	70	38-141	9	20	
Carbon disulfide	ug/L	<0.61	50	50	48.0	52.4	96	105	70-155	9	20	
Carbon tetrachloride	ug/L	<0.50	50	50	46.2	51.5	92	103	70-130	11	20	
Chlorobenzene	ug/L	<0.50	50	50	50.5	51.2	101	102	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	42.8	47.3	86	95	66-152	10	20	
Chloroform	ug/L	<2.5	50	50	43.4	48.8	87	98	70-130	12	20	
Chloromethane	ug/L	<0.50	50	50	41.1	44.5	82	89	44-151	8	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	44.4	48.6	89	97	70-130	9	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.6	48.7	95	97	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	50.0	51.7	100	103	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	42.9	46.9	86	94	29-160	9	20	
Ethylbenzene	ug/L	<0.50	50	50	51.9	52.5	104	105	70-132	1	20	
m&p-Xylene	ug/L	<1.0	100	100	105	106	105	106	70-131	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	41.4	48.6	83	97	48-143	16	20	
Methylene Chloride	ug/L	<0.23	50	50	41.7	46.3	83	93	70-130	11	20	
o-Xylene	ug/L	<0.50	50	50	51.2	52.3	102	105	70-131	2	20	
Styrene	ug/L	<0.50	50	50	51.2	53.0	102	106	70-130	3	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Parameter	Units	1144725		1144726		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		40113421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Tetrachloroethene	ug/L	<0.50	50	50	51.8	52.4	104	105	70-130	1	20	
Toluene	ug/L	<0.50	50	50	51.2	52.6	102	105	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	46.7	50.0	93	100	70-132	7	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.8	49.1	94	98	70-130	5	20	
Trichloroethene	ug/L	<0.33	50	50	51.3	51.8	103	104	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	48.1	52.5	96	105	50-153	9	20	
Vinyl chloride	ug/L	1.1	50	50	47.2	51.1	92	100	60-155	8	20	
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						89	99	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: MSV/28128 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40113341001, 40113341002

METHOD BLANK: 1144375 Matrix: Water

Associated Lab Samples: 40113341001, 40113341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/22/15 10:24	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/22/15 10:24	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/22/15 10:24	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/22/15 10:24	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/22/15 10:24	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/22/15 10:24	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/22/15 10:24	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/22/15 10:24	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/22/15 10:24	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/22/15 10:24	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/22/15 10:24	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/22/15 10:24	
Acetone	ug/L	<3.0	20.0	04/22/15 10:24	
Benzene	ug/L	<0.50	1.0	04/22/15 10:24	
Bromodichloromethane	ug/L	<0.50	1.0	04/22/15 10:24	
Bromoform	ug/L	<0.50	1.0	04/22/15 10:24	
Bromomethane	ug/L	<2.4	5.0	04/22/15 10:24	
Carbon disulfide	ug/L	<0.61	5.0	04/22/15 10:24	
Carbon tetrachloride	ug/L	<0.50	1.0	04/22/15 10:24	
Chlorobenzene	ug/L	<0.50	1.0	04/22/15 10:24	
Chloroethane	ug/L	<0.37	1.0	04/22/15 10:24	
Chloroform	ug/L	<2.5	5.0	04/22/15 10:24	
Chloromethane	ug/L	<0.50	1.0	04/22/15 10:24	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/22/15 10:24	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/22/15 10:24	
Dibromochloromethane	ug/L	<0.50	1.0	04/22/15 10:24	
Dibromomethane	ug/L	<0.43	1.0	04/22/15 10:24	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/22/15 10:24	
Ethylbenzene	ug/L	<0.50	1.0	04/22/15 10:24	
m&p-Xylene	ug/L	<1.0	2.0	04/22/15 10:24	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/22/15 10:24	
Methylene Chloride	ug/L	<0.23	1.0	04/22/15 10:24	
Naphthalene	ug/L	<2.5	5.0	04/22/15 10:24	
o-Xylene	ug/L	<0.50	1.0	04/22/15 10:24	
Styrene	ug/L	<0.50	1.0	04/22/15 10:24	
Tetrachloroethene	ug/L	<0.50	1.0	04/22/15 10:24	
Tetrahydrofuran	ug/L	<2.0	5.0	04/22/15 10:24	
Toluene	ug/L	<0.50	1.0	04/22/15 10:24	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/22/15 10:24	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/22/15 10:24	
Trichloroethene	ug/L	<0.33	1.0	04/22/15 10:24	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

METHOD BLANK: 1144375

Matrix: Water

Associated Lab Samples: 40113341001, 40113341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/22/15 10:24	
Vinyl chloride	ug/L	<0.18	1.0	04/22/15 10:24	
4-Bromofluorobenzene (S)	%	96	70-130	04/22/15 10:24	
Dibromofluoromethane (S)	%	100	70-130	04/22/15 10:24	
Toluene-d8 (S)	%	98	70-130	04/22/15 10:24	

LABORATORY CONTROL SAMPLE & LCSD: 1144376

1144377

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.4	60.6	121	121	70-130	0	20	
1,1,2-Trichloroethane	ug/L	50	49.9	51.6	100	103	70-130	3	20	
1,1-Dichloroethane	ug/L	50	54.3	52.5	109	105	70-130	3	20	
1,1-Dichloroethene	ug/L	50	47.2	48.2	94	96	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	49.6	95	99	50-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	54.3	107	109	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	50.2	51.4	100	103	70-130	2	20	
1,2-Dichloroethane	ug/L	50	49.7	51.8	99	104	70-131	4	20	
1,2-Dichloropropane	ug/L	50	53.0	54.4	106	109	70-130	3	20	
1,3-Dichlorobenzene	ug/L	50	50.0	50.6	100	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	49.3	49.4	99	99	70-130	0	20	
Benzene	ug/L	50	50.1	50.9	100	102	70-130	2	20	
Bromodichloromethane	ug/L	50	51.6	51.9	103	104	70-130	0	20	
Bromoform	ug/L	50	51.9	52.8	104	106	68-130	2	20	
Bromomethane	ug/L	50	35.3	39.1	71	78	38-137	10	20	
Carbon disulfide	ug/L	50	52.4	51.0	105	102	70-154	3	20	
Carbon tetrachloride	ug/L	50	56.8	56.9	114	114	70-130	0	20	
Chlorobenzene	ug/L	50	51.3	51.9	103	104	70-130	1	20	
Chloroethane	ug/L	50	49.1	48.9	98	98	70-136	0	20	
Chloroform	ug/L	50	51.8	52.7	104	105	70-130	2	20	
Chloromethane	ug/L	50	40.2	41.2	80	82	48-144	3	20	
cis-1,2-Dichloroethene	ug/L	50	54.0	55.8	108	112	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	50	51.3	51.4	103	103	70-130	0	20	
Dibromochloromethane	ug/L	50	51.6	52.8	103	106	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	37.9	37.2	76	74	33-157	2	20	
Ethylbenzene	ug/L	50	55.6	56.5	111	113	70-132	2	20	
m&p-Xylene	ug/L	100	112	113	112	113	70-131	1	20	
Methyl-tert-butyl ether	ug/L	50	55.1	57.1	110	114	48-141	4	20	
Methylene Chloride	ug/L	50	46.3	47.2	93	94	70-130	2	20	
o-Xylene	ug/L	50	51.0	51.5	102	103	70-131	1	20	
Styrene	ug/L	50	49.1	50.2	98	100	70-130	2	20	
Tetrachloroethene	ug/L	50	52.6	52.0	105	104	70-130	1	20	
Toluene	ug/L	50	52.4	53.8	105	108	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	50.3	51.2	101	102	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	51.5	52.5	103	105	70-130	2	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

LABORATORY CONTROL SAMPLE & LCSD:		1144376	1144377								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	53.7	54.7	107	109	70-130	2	20		
Trichlorofluoromethane	ug/L	50	52.8	51.2	106	102	50-150	3	20		
Vinyl chloride	ug/L	50	46.5	48.5	93	97	65-142	4	20		
4-Bromofluorobenzene (S)	%				103	102	70-130				
Dibromofluoromethane (S)	%				104	104	70-130				
Toluene-d8 (S)	%				98	97	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1144378	1144379									
Parameter	Units	40113440001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
1,1,1-Trichloroethane	ug/L	2.6	50	50	62.4	62.0	120	119	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.5	51.3	101	103	70-130	1	20	
1,1-Dichloroethane	ug/L	0.77J	50	50	52.0	53.1	102	105	70-134	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	46.8	46.4	94	93	70-139	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.9	49.4	100	99	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.3	53.5	107	107	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.3	50.9	99	102	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	49.3	50.0	99	100	70-132	1	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	52.9	53.3	106	107	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.9	49.1	98	98	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	48.2	48.1	96	96	70-130	0	20	
Benzene	ug/L	<0.50	50	50	49.7	50.1	99	100	70-130	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	50.7	51.2	101	102	70-132	1	20	
Bromoform	ug/L	<0.50	50	50	51.8	51.9	104	104	68-130	0	20	
Bromomethane	ug/L	<2.4	50	50	40.4	39.9	81	80	38-141	1	20	
Carbon disulfide	ug/L	<0.61	50	50	51.0	50.8	101	101	70-155	0	20	
Carbon tetrachloride	ug/L	<0.50	50	50	55.3	55.1	111	110	70-130	0	20	
Chlorobenzene	ug/L	<0.50	50	50	50.6	50.5	101	101	70-130	0	20	
Chloroethane	ug/L	<0.37	50	50	47.6	46.9	95	94	66-152	2	20	
Chloroform	ug/L	<2.5	50	50	51.6	51.9	103	104	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	40.6	40.6	81	81	44-151	0	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	52.1	57.0	104	114	70-130	9	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	49.3	50.2	99	100	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	51.2	51.6	102	103	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	36.3	36.9	73	74	29-160	2	20	
Ethylbenzene	ug/L	<0.50	50	50	54.4	55.2	109	110	70-132	1	20	
m&p-Xylene	ug/L	<1.0	100	100	112	111	112	111	70-131	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	55.2	54.9	110	110	48-143	0	20	
Methylene Chloride	ug/L	<0.23	50	50	45.5	45.9	91	92	70-130	1	20	
o-Xylene	ug/L	<0.50	50	50	50.7	50.6	101	101	70-131	0	20	
Styrene	ug/L	<0.50	50	50	48.6	47.7	97	95	70-130	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	51.0	50.6	102	101	70-130	1	20	
Toluene	ug/L	<0.50	50	50	52.6	52.8	105	106	70-130	0	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144378		1144379		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40113440001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.7	48.8	97	98	70-132	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.4	51.3	103	103	70-130	0	20		
Trichloroethene	ug/L	<0.33	50	50	52.8	53.4	106	107	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.3	49.4	99	99	50-153	0	20		
Vinyl chloride	ug/L	<0.18	50	50	47.9	48.3	96	97	60-155	1	20		
4-Bromofluorobenzene (S)	%						101	101	70-130				
Dibromofluoromethane (S)	%						101	101	70-130				
Toluene-d8 (S)	%						97	98	70-130				

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WET/21772	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	40113217001		

METHOD BLANK: 1142766 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	04/16/15 20:25	

LABORATORY CONTROL SAMPLE: 1142767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.0	98	80-120	

SAMPLE DUPLICATE: 1142768

Parameter	Units	40113147001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.6	18.8	4	10	

SAMPLE DUPLICATE: 1142769

Parameter	Units	40113217001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	177	175	1	10	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WET/21770	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	40113217001		

METHOD BLANK: 1142757 Matrix: Water

Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	04/21/15 14:15	

LABORATORY CONTROL SAMPLE & LCSD: 1142759 1142760

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	214	218	108	110	84.6-115	1	20	

SAMPLE DUPLICATE: 1142761

Parameter	Units	40113214001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	102	96.4	6	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WETA/28202	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
Associated Lab Samples:	40113226006, 40113226007, 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009		

METHOD BLANK:	1147206	Matrix:	Water
Associated Lab Samples:	40113226006, 40113226007, 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	2.2J	4.0	04/27/15 21:14	

LABORATORY CONTROL SAMPLE: 1147207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147208 1147209

Parameter	Units	40113226004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.5	20	20	48.1	48.3	108	109	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147210 1147211

Parameter	Units	40113338003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	35.2	20	20	57.8	58.5	113	117	90-110	1	20 M0	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

QC Batch: WETA/28212 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
Associated Lab Samples: 40113341001, 40113341002

METHOD BLANK: 1147772 Matrix: Water  
Associated Lab Samples: 40113341001, 40113341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/28/15 09:29	

LABORATORY CONTROL SAMPLE: 1147773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147774 1147775

Parameter	Units	40113338004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Chloride	mg/L	15.1	20	36.0	20	35.8	104	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147776 1147777

Parameter	Units	40113347016 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Chloride	mg/L	14.9	20	35.3	20	35.5	102	103	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WETA/28219	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
Associated Lab Samples:	40113419001, 40113419002, 40113420001, 40113420002, 40113420003, 40113420004, 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007		

METHOD BLANK:	1147884	Matrix:	Water
Associated Lab Samples:	40113419001, 40113419002, 40113420001, 40113420002, 40113420003, 40113420004, 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	2.4J	4.0	04/30/15 10:03	

LABORATORY CONTROL SAMPLE: 1147885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147886 1147887

Parameter	Units	40113419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	78.9	100	100	177	178	98	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147888 1147889

Parameter	Units	40113440005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	101	100	100	198	198	96	97	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

QC Batch: WETA/28176 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40113217001

METHOD BLANK: 1146069 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	2.2J	4.0	04/24/15 11:27	
Sulfate	mg/L	<2.0	4.0	04/24/15 11:27	

LABORATORY CONTROL SAMPLE: 1146070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	
Sulfate	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1146071 1146072

Parameter	Units	40113448001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	3.3J	20	20	21.4	21.7	91	92	90-110	1	20	
Sulfate	mg/L	9.1	20	20	30.2	30.4	105	107	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1146073 1146074

Parameter	Units	40113271001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	332	400	400	730	727	100	99	90-110	0	20	
Sulfate	mg/L	112	400	400	504	503	98	98	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WETA/28130	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	40113217001		

METHOD BLANK: 1144597 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.5	20.0	04/21/15 14:22	

LABORATORY CONTROL SAMPLE: 1144598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	100	97.0	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144599 1144600

Parameter	Units	40113415003		40113415003		40113415003		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	365	500	500	855	869	98	101	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144601 1144602

Parameter	Units	40113418005		40113418005		40113418005		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	494	500	500	979	994	97	100	90-110	2	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

QC Batch: WETA/28131 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 40113226006, 40113226007, 40113341001

METHOD BLANK: 1144603 Matrix: Water  
Associated Lab Samples: 40113226006, 40113226007, 40113341001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/21/15 14:40	

LABORATORY CONTROL SAMPLE: 1144604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	95.1	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144605 1144606

Parameter	Units	40113352001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	2170	1000	1000	3100	3120	93	95	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144607 1144608

Parameter	Units	40113352011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	217	200	200	421	416	102	100	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: WETA/28132 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009

METHOD BLANK: 1144609 Matrix: Water  
 Associated Lab Samples: 40113304001, 40113304002, 40113304003, 40113304004, 40113304005, 40113304006, 40113304007, 40113304008, 40113304009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/21/15 15:01	

LABORATORY CONTROL SAMPLE: 1144610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	97.0	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144611 1144612

Parameter	Units	40113304006		40113304006		40113304006		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	729	1000	1000	1710	1700	98	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144613 1144614

Parameter	Units	40113338009		40113338009		40113338009		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	652	1000	1000	1530	1630	88	98	90-110	7	20	M0

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: WETA/28172 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40113341002, 40113419001, 40113419002, 40113420001, 40113420002, 40113420003, 40113420004

METHOD BLANK: 1145758 Matrix: Water  
 Associated Lab Samples: 40113341002, 40113419001, 40113419002, 40113420001, 40113420002, 40113420003, 40113420004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/24/15 10:11	

LABORATORY CONTROL SAMPLE: 1145759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	95.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145760 1145761

Parameter	Units	40113386009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	220	200	200	424	422	102	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145762 1145763

Parameter	Units	40113420004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	192	200	200	398	389	103	99	90-110	2	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch: WETA/28173 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007

METHOD BLANK: 1145764 Matrix: Water  
 Associated Lab Samples: 40113421001, 40113421002, 40113421003, 40113421004, 40113421005, 40113421006, 40113421007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/24/15 10:33	

LABORATORY CONTROL SAMPLE: 1145765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	109	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145766 1145767

Parameter	Units	40113440003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	548	500	500	1020	1040	94	98	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145768 1145769

Parameter	Units	40113475003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	499	500	500	993	1000	99	101	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

QC Batch: WETA/28117 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled  
Associated Lab Samples: 40113217001

METHOD BLANK: 1144297 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	04/20/15 19:47	

LABORATORY CONTROL SAMPLE: 1144298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144299 1144300

Parameter	Units	40113216001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Nitrogen, Ammonia	mg/L	30.0	10	10	40.6	38.8	106	88	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144301 1144302

Parameter	Units	40113253002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Nitrogen, Ammonia	mg/L	5.1	10	10	15.2	14.9	101	98	90-110	2	20	

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### QUALITY CONTROL DATA

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

QC Batch:	WETA/28207	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	40113217001		

METHOD BLANK: 1147746 Matrix: Water  
Associated Lab Samples: 40113217001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<11.6	50.0	04/27/15 14:02	

LABORATORY CONTROL SAMPLE: 1147747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	507	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147748 1147749

Parameter	Units	40113152003		40113152003		40113152003		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chemical Oxygen Demand	mg/L	146	1000	1170	1000	102	99	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147750 1147751

Parameter	Units	40113302001		40113302001		40113302001		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chemical Oxygen Demand	mg/L	15.9J	526	543	526	100	101	90-110	0	10	

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## QUALIFIERS

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

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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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

1q Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

B Analyte was detected in the associated method blank.

B1 Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.

CC The continuing calibration for this compound is outside of method control limits. The result is estimated.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113217001	GAS CONDENSATE TANK	EPA 3010	MPRP/11769	EPA 6010	ICP/10452
40113421001	MW-1B	EPA 6010	ICP/10442		
40113421002	P-422B	EPA 6010	ICP/10442		
40113421003	P-402E	EPA 6010	ICP/10465		
40113421004	P-401D	EPA 6010	ICP/10465		
40113421005	P-423D	EPA 6010	ICP/10465		
40113421006	P-424D	EPA 6010	ICP/10465		
40113421007	P-424SS	EPA 6010	ICP/10465		
40113226006	MW-204A	EPA 3010	MPRP/11754	EPA 6020	ICPM/5446
40113226007	A-3A	EPA 3010	MPRP/11754	EPA 6020	ICPM/5446
40113304001	MW-210A	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304002	MW-210	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304003	MW-210B	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304004	MW-214	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304005	MW-214A	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304006	MW-8R	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304007	MW-203A	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304008	MW-6R	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113304009	MW-6R DUP 01	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113341001	MW-1RR	EPA 3010	MPRP/11754	EPA 6020	ICPM/5446
40113341002	MW-1AR	EPA 3010	MPRP/11754	EPA 6020	ICPM/5446
40113419001	W-3R	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113419002	W-3AR	EPA 3010	MPRP/11926	EPA 6020	ICPM/5531
40113420001	MW-7R	EPA 3010	MPRP/11774	EPA 6020	ICPM/5458
40113420002	W-163	EPA 3010	MPRP/11774	EPA 6020	ICPM/5458
40113420003	W-163A	EPA 3010	MPRP/11774	EPA 6020	ICPM/5458
40113420004	W-163A DUP 02	EPA 3010	MPRP/11774	EPA 6020	ICPM/5458
40113217001	GAS CONDENSATE TANK	EPA 8260	MSV/28087		
40113217002	TRIP BLANK	EPA 8260	MSV/28087		
40113304001	MW-210A	EPA 8260	MSV/28108		
40113304002	MW-210	EPA 8260	MSV/28108		
40113304003	MW-210B	EPA 8260	MSV/28108		
40113304010	TRIP BLANK	EPA 8260	MSV/28108		
40113341001	MW-1RR	EPA 8260	MSV/28128		
40113341002	MW-1AR	EPA 8260	MSV/28128		
40113341003	TRIP BLANK	EPA 8260	MSV/28108		
40113419001	W-3R	EPA 8260	MSV/28122		
40113419002	W-3AR	EPA 8260	MSV/28122		
40113420005	TRIP BLANK	EPA 8260	MSV/28122		
40113421001	MW-1B	EPA 8260	MSV/28122		
40113421002	P-422B	EPA 8260	MSV/28122		
40113421003	P-402E	EPA 8260	MSV/28122		
40113421004	P-401D	EPA 8260	MSV/28122		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113421005	P-423D	EPA 8260	MSV/28122		
40113421006	P-424D	EPA 8260	MSV/28122		
40113421007	P-424SS	EPA 8260	MSV/28122		
40113421008	TRIP BLANK	EPA 8260	MSV/28122		
40113217001	GAS CONDENSATE TANK		PM/		
40113226006	MW-204A		PM/		
40113226007	A-3A		PM/		
40113304001	MW-210A		PM/		
40113304002	MW-210		PM/		
40113304003	MW-210B		PM/		
40113304004	MW-214		PM/		
40113304005	MW-214A		PM/		
40113304006	MW-8R		PM/		
40113304007	MW-203A		PM/		
40113304008	MW-6R		PM/		
40113304009	MW-6R DUP 01		PM/		
40113341001	MW-1RR		PM/		
40113341002	MW-1AR		PM/		
40113419001	W-3R		PM/		
40113419002	W-3AR		PM/		
40113420001	MW-7R		PM/		
40113420002	W-163		PM/		
40113420003	W-163A		PM/		
40113420004	W-163A DUP 02		PM/		
40113421001	MW-1B		PM/		
40113421002	P-422B		PM/		
40113421003	P-402E		PM/		
40113421004	P-401D		PM/		
40113421005	P-423D		PM/		
40113421006	P-424D		PM/		
40113421007	P-424SS		PM/		
40113171081	A-3A		PM/		
40113171082	MW-204A		PM/		
40113304031	MW-8R		PM/		
40113304032	MW-203A		PM/		
40113304033	MW-6R		PM/		
40113304034	MW-7R		PM/		
40113304035	MW-201		PM/		
40113304036	MW-201		PM/		
40113304037	MW-201A		PM/		
40113304038	MW-201A		PM/		
40113304039	MW-201B		PM/		
40113304040	MW-201B		PM/		
40113304041	W-163		PM/		
40113304042	W-163A		PM/		
40113304043	MW-210A		PM/		
40113304044	MW-210		PM/		
40113304045	MW-210B		PM/		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL GW APRIL 2015

Pace Project No.: 40113304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113304046	MW-214		PM/		
40113304047	MW-214A		PM/		
40113304048	W-3R		PM/		
40113304049	W-3AR		PM/		
40113304050	MW-1RR		PM/		
40113304051	MW-1AR		PM/		
40113304052	SW-2		PM/		
40113304053	SW-3		PM/		
40113304054	SW-4		PM/		
40113304055	SW-5		PM/		
40113304056	P-423D		PM/		
40113304057	P-424D		PM/		
40113304058	P-424SS		PM/		
40113304059	P-422B		PM/		
40113304060	MW-1B		PM/		
40113304061	P-401D		PM/		
40113304062	P-402E		PM/		
40113217001	GAS CONDENSATE TANK	SM 2540D	WET/21772		
40113217001	GAS CONDENSATE TANK	SM 5210B	WET/21770	SM 5210B	WET/21814
40113217001	GAS CONDENSATE TANK	EPA 300.0	WETA/28176		
40113226006	MW-204A	EPA 300.0	WETA/28202		
40113226007	A-3A	EPA 300.0	WETA/28202		
40113304001	MW-210A	EPA 300.0	WETA/28202		
40113304002	MW-210	EPA 300.0	WETA/28202		
40113304003	MW-210B	EPA 300.0	WETA/28202		
40113304004	MW-214	EPA 300.0	WETA/28202		
40113304005	MW-214A	EPA 300.0	WETA/28202		
40113304006	MW-8R	EPA 300.0	WETA/28202		
40113304007	MW-203A	EPA 300.0	WETA/28202		
40113304008	MW-6R	EPA 300.0	WETA/28202		
40113304009	MW-6R DUP 01	EPA 300.0	WETA/28202		
40113341001	MW-1RR	EPA 300.0	WETA/28212		
40113341002	MW-1AR	EPA 300.0	WETA/28212		
40113419001	W-3R	EPA 300.0	WETA/28219		
40113419002	W-3AR	EPA 300.0	WETA/28219		
40113420001	MW-7R	EPA 300.0	WETA/28219		
40113420002	W-163	EPA 300.0	WETA/28219		
40113420003	W-163A	EPA 300.0	WETA/28219		
40113420004	W-163A DUP 02	EPA 300.0	WETA/28219		
40113421001	MW-1B	EPA 300.0	WETA/28219		
40113421002	P-422B	EPA 300.0	WETA/28219		
40113421003	P-402E	EPA 300.0	WETA/28219		
40113421004	P-401D	EPA 300.0	WETA/28219		
40113421005	P-423D	EPA 300.0	WETA/28219		
40113421006	P-424D	EPA 300.0	WETA/28219		
40113421007	P-424SS	EPA 300.0	WETA/28219		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL GW APRIL 2015  
Pace Project No.: 40113304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113217001	GAS CONDENSATE TANK	EPA 310.2	WETA/28130		
40113226006	MW-204A	EPA 310.2	WETA/28131		
40113226007	A-3A	EPA 310.2	WETA/28131		
40113304001	MW-210A	EPA 310.2	WETA/28132		
40113304002	MW-210	EPA 310.2	WETA/28132		
40113304003	MW-210B	EPA 310.2	WETA/28132		
40113304004	MW-214	EPA 310.2	WETA/28132		
40113304005	MW-214A	EPA 310.2	WETA/28132		
40113304006	MW-8R	EPA 310.2	WETA/28132		
40113304007	MW-203A	EPA 310.2	WETA/28132		
40113304008	MW-6R	EPA 310.2	WETA/28132		
40113304009	MW-6R DUP 01	EPA 310.2	WETA/28132		
40113341001	MW-1RR	EPA 310.2	WETA/28131		
40113341002	MW-1AR	EPA 310.2	WETA/28172		
40113419001	W-3R	EPA 310.2	WETA/28172		
40113419002	W-3AR	EPA 310.2	WETA/28172		
40113420001	MW-7R	EPA 310.2	WETA/28172		
40113420002	W-163	EPA 310.2	WETA/28172		
40113420003	W-163A	EPA 310.2	WETA/28172		
40113420004	W-163A DUP 02	EPA 310.2	WETA/28172		
40113421001	MW-1B	EPA 310.2	WETA/28173		
40113421002	P-422B	EPA 310.2	WETA/28173		
40113421003	P-402E	EPA 310.2	WETA/28173		
40113421004	P-401D	EPA 310.2	WETA/28173		
40113421005	P-423D	EPA 310.2	WETA/28173		
40113421006	P-424D	EPA 310.2	WETA/28173		
40113421007	P-424SS	EPA 310.2	WETA/28173		
40113217001	GAS CONDENSATE TANK	EPA 350.1	WETA/28117	EPA 350.1	WETA/28126
40113217001	GAS CONDENSATE TANK	EPA 410.4	WETA/28207	EPA 410.4	WETA/28222

### 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.

40113304

<b>Section A</b> Required Client Information: ADS Glacier Ridge		<b>Section B</b> Required Project Information: Report To: Same		<b>Section C</b> Invoice Information: Attention: Same	
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGRL GW APR		Pace Quote Reference:	
Phone:		Project Number:		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Valid Matrix Codes		Pace Profile #: 4172 line 17	

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Nitr	HCL	Unpreserved	Preservatives	Requested Ant	Filtered (Y/N)	LOCATION	SITE	REGULATORY AGENCY
				DATE	TIME											
1	MW-210A		DW	7/14/19	1225	17.1	5	IF 3				X	NY			
2	MW-210		WT		1205	11.9	5	IF 3				X	NY			
3	MW-210B		WW		1300	13.0	5	IF 3				X	NY			
4	MW-21M		SL		1115	9.6	2	IF				X	NY			
5	MW-21MA		OL		1130	12.9	2	IF				X	NY			
6	MW-8R		WP		0945	10.6	2	IF				X	NY			
7	MW-203A		WP		1030	11.9	2	IF				X	NY			
8	MW-6R		OT		1025	11.7	2	IF				X	NY			
9	Dup-01		TS		7/14/19	10:05	2	IF				X	NY			
10	Top Blank						2					X	NY			
11													NY			
12													NY			

**Additional Comments:**  
VOCs - MW-1RR, MW-1AR, W-3AR, W-3AR, MW-210, MW-210A, MW-210B, DUP02, W-163, W-163A

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	4/17/15	0750	<i>[Signature]</i>	4/17/15	0750	Temp in °C
<i>[Signature]</i>	4/17/15	1800	<i>[Signature]</i>	4/17/15	0750	Received on
<i>[Signature]</i>	4/17/15	0750	<i>[Signature]</i>	4/17/15	0750	Ice
<i>[Signature]</i>	4/17/15	0750	<i>[Signature]</i>	4/17/15	0750	Custody Cooler
<i>[Signature]</i>	4/17/15	0750	<i>[Signature]</i>	4/17/15	0750	Sealed
<i>[Signature]</i>	4/17/15	0750	<i>[Signature]</i>	4/17/15	0750	Intact

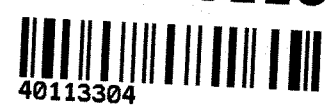
**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: *[Signature]*  
SIGNATURE of SAMPLER: *[Signature]*  
DATE Signed (MM/DD/YY): 4/16/15

# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

**Pace Analytical™**

Client Name: ADS  
 Courier:  Fed Ex  UPS  Client  Pace Other: Donham  
 Tracking #: 972502

Project #: **WO#: 40113304**  
  
 40113304

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used: NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun  
 Cooler Temperature: Uncorr: 201 /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes  no  
 Temp Blank Present:  yes  no

Person examining contents:  
 Date: 4-17-15  
 Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.  
 Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: <u>MV</u> Lab Std #ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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): <u>328</u>		

Client Notification/ Resolution:  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ If checked, see attached form for additional comments   
 Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 4/17/15





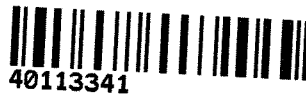
Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Client Name: ADS
Courier: Fed Ex UPS Client Pace Other: Dunham
Tracking #: 972502

Project #: WO#: 40113341



Custody Seal on Cooler/Box Present: yes no
Custody Seal on Samples Present: yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: NA
Type of Ice: Wet Blue Dry None
Cooler Temperature: Uncorr: 201 /Corr:
Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 4-17-15
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present: Yes No N/A
Chain of Custody Filled Out: Yes No N/A
Chain of Custody Relinquished: Yes No N/A
Sampler Name & Signature on COC: Yes No N/A
Samples Arrived within Hold Time: Yes No N/A
Short Hold Time Analysis (<72hr): Yes No N/A
Rush Turn Around Time Requested: Yes No N/A
Sufficient Volume: Yes No N/A
Correct Containers Used: Yes No N/A
Containers Intact: Yes No N/A
Filtered volume received for Dissolved tests: Yes No N/A
Sample Labels match COC: Yes No N/A
All containers needing preservation have been checked.
All containers needing preservation are found to be in compliance with EPA recommendation.
Headspace in VOA Vials (>6mm): Yes No N/A
Trip Blank Present: Yes No N/A
Trip Blank Custody Seals Present: Yes No N/A
Pace Trip Blank Lot # (if purchased): 328

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: Date:



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40113419

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																				
ADS Glacier Ridge		Report To: Same		Attention: Same																				
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bulli - SCS Eng, Sheren Clark - SCS Eng		Company Name:																				
Horicon, WI 53032		Purchase Order No.:		Address:																				
Email To: Tim Curry - ADS		Project Name: LGRL GW APR		Pace Project Reference:																				
Phone:		Project Number:		Pace Project Manager: Cindy Varga																				
Requested Due Date/TAT:		Project Profile #: 4172 line 17		Pace Quote Reference:																				
#	ITEM	Section D Required Client Information		Section E Valid Matrix Codes		Section F Sample Information		Section G Collection		Section H Containers		Section I Analysis		Section J Preservatives		Section K Filtering		Section L Location		Section M Site		Section N Regulatory Agency		
		SAMPLE ID One Character per box. (A-Z, 0-9, /, -)	SAMPLES MUST BE UNIQUE	MATRIX	CODE	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE
1		001	W-3R	DRINKING WATER	OW	4/17	095	8.2	8.2	5														
2		002	W-3AR	WASTE WATER	WW	0925	9.9	9.9	9.9	1														
3		003	MW-1B	PRODUCT	P	0950	10.4	10.4	10.4	1														
4		MS	4/18/15	PRODUCED	PL																			
5				SOIL	SO																			
6				PAINT	PA																			
7				SLURRY	SL																			
8				WASTE OIL	WO																			
9				WASTE OIL	WO																			
10				WASTE OIL	WO																			
11				WASTE OIL	WO																			
12				WASTE OIL	WO																			

Additional Comments:

VOCs - MW-1RR, MW-1AR, W-3AR, W-3AR, MW-210, MW-210A, MW-210B, DUP02, W-163, W-163A

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Brenda Fritsch  
 SIGNATURE of SAMPLER: *Brenda Fritsch*  
 DATE Signed (MM/DD/YYYY): 04/17/15

# Sample Condition Upon Receipt

Pace Analytical Services, Inc  
1241 Bellevue Street, Suite 5  
Green Bay, WI 54302

**Pace Analytical**

**Client Name:** ADS Glacier Ridge

Project #: **WO#: 40113419**

**Courier:**  Fed Ex  UPS  Client  Pace Other: PLR/PLAS



**Tracking #:** 973255

**Custody Seal on Cooler/Box Present:**  yes  no    **Seals intact:**  yes  no

**Custody Seal on Samples Present:**  yes  no    **Seals intact:**  yes  no

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other

**Thermometer Used:** SR-40    **Type of Ice:**  Wet  Blue  Dry  None

**Cooler Temperature:** 4    **Biological Tissue is Frozen:**  yes  no

Samples on ice, cooling process has begun

**Temp Blank Present:**  yes  no

**Person examining contents:**  
Date: 4/18/15  
Initials: MF

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

	Comments:
Chain of Custody Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Did not receive MW-1B</u>
-Includes date/time/ID/Analysis Matrix: <u>MF 4/18/15</u>	<u>MF 4/18/15</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2, NaOH+ZnAct ≥9, NaOH ≥12) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed: <u>MF</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

**Client Notification/ Resolution:**  
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

If checked, see attached form for additional comments

**Project Manager Review:** [Signature]    **Date:** 4-18-15

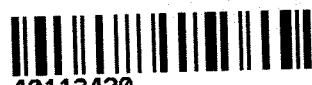


# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

**Pace Analytical™**

**Client Name:** ADS Glacier Ridge  
**Courier:**  Fed Ex  UPS  Client  Pace Other: Durham  
**Tracking #:** 973255

**Project #:** **WO#: 40113420**  
  
**40113420**

**Custody Seal on Cooler/Box Present:**  yes  no    **Seals intact:**  yes  no  
**Custody Seal on Samples Present:**  yes  no    **Seals intact:**  yes  no  
**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other  
**Thermometer Used:** SR-44    **Type of Ice:**  Wet  Blue  Dry  None  
**Cooler Temperature:** 4    **Biological Tissue is Frozen:**  yes  no  
**Temp Blank Present:**  yes  no     Samples on ice, cooling process has begun

Temp should be above freezing to 6°C for all sample except Biota.  
 Frozen Biota Samples should be received ≤ 0°C.

**Person examining contents:**  
**Date:** 4/18/15  
**Initials:** MF

	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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
- Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	MF 4/18/15
Sample Labels match COC: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
- Includes date/time/ID/Analysis Matrix:	
All containers needing preservation have been checked. (Non-Compliance noted in 13.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed    Lab Std #ID of preservative    Date/Time:
Headspace in VOA Vials (>6mm): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. 003 1-40mL <sup>B</sup> MF 4/18/15
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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): <u>328</u>	

**Client Notification/ Resolution:** Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 If checked, see attached form for additional comments

**Project Manager Review:** W for CV    **Date:** 4-18-15



Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

**Pace Analytical™**

Client Name: ADS Glacier Ridge  
Courier:  Fed Ex  UPS  Client  Pace Other: DLH/KAS  
Tracking #: 973255

Project # **WO# : 40113421**



Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
Thermometer Used: SR-44 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun  
Cooler Temperature: Uncorr: 4 / Corr: 4 Biological Tissue is Frozen:  yes  no  
Temp Blank Present:  yes  no

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:  
Date: 4/18/15  
Initials: ME

		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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <sup>CO3</sup> ID correct on Lit, ID is MW-1AR on label ME 4/18/15
-Includes date/time/ID/Analysis Matrix:		<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>ME</u> Lab Std #/ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>CO6 1-40mL<sup>b</sup> ME 4/18/15</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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): <u>328</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: JJ for CV

Date: 4-18-15



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

*Handwritten initials*

1011321

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
ADS Glacier Ridge		Report To: Same		Attention: Same	
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGRL GAS CONDENSATE T		Pace Quote Reference:	
Phone:		Project Number:		Pace Project Manager: Cindy Varga	
Requested Due Date/TAT:		Project Profile #: 4172 line 20			

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / , ) Samples IDs MUST BE UNIQUE	Matrix Codes	COLLECTED		# OF CONTAINERS	PRESERVATIVES			Requested	Ani	Residual Chlorine (Y/N)	Pace Project Number	Lab I.D.	
			MATRIX	CODE		DATE	TIME	COMPOSITE START						COMPOSITE END
1	gas condensate tank 001	WV	WV	4/15/15	1420	H2SO4	1	3	1	X	X	X	X	
2	* Trip Blank 002	WV	WV			HNO3								
3	* Added by Lab	WV	WV			HCL								
4		WV	WV			Unpreserved								
5		WV	WV											
6		WV	WV											
7		WV	WV											
8		WV	WV											
9		WV	WV											
10		WV	WV											
11		WV	WV											
12		WV	WV											

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>Handwritten signature</i>	4/15/15	1700	<i>Handwritten signature</i>	4/16/15	0735	Received on ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N
<i>Handwritten signature</i>	4/16/15		<i>Handwritten signature</i>			

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>Handwritten name</i>
SIGNATURE of SAMPLER:	<i>Handwritten signature</i>
DATE Signed (MM/DD/YY)	4/15/15



Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Sample Condition Upon Receipt

Client Name: ADS Project # 40113217

Additional Comments/Resolution: \_\_\_\_\_

01 3-40mL<sup>B</sup>, 2-1Lp<sup>A</sup>, 2-250mLp<sup>ADC</sup>  
02 2-40mL<sup>B</sup>

MG 4/16/15

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

# Sample Condition Upon Receipt

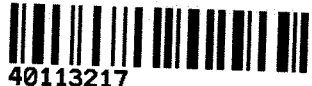
Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

## Pace Analytical™

**Client Name:** ADS Glacier Ridge

Project #: **WO#: 40113217**

**Courier:**  Fed Ex  UPS  Client  Pace  Other: Dunham



**Tracking #:** 971834

**Custody Seal on Cooler/Box Present:**  yes  no **Seals intact:**  yes  no

**Custody Seal on Samples Present:**  yes  no **Seals intact:**  yes  no

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other: plastic bags

**Thermometer Used:** SR-47 **Type of Ice:**  Wet  Blue Dry  None

Samples on ice, cooling process has begun

**Cooler Temperature:** Uncorr: 5 / Corr: 5 **Biological Tissue is Frozen:**  yes  no

**Temp Blank Present:**  yes  no

**Person examining contents:**  
Date: 4/16/15  
Initials: MG

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Chain of Custody Present:	Comments:
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD analyses requested MG 4/16/15</u>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>HNO3</u> <input checked="" type="checkbox"/> <u>H2SO4</u> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lab Std #ID of preservative
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>001 - 1-40mL headspace MG 4/16/15</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

**Sampler Name & Signature on COC:**  Yes  No  N/A

**Samples Arrived within Hold Time:**  Yes  No  N/A

**- VOA Samples frozen upon receipt:**  Yes  No

**Short Hold Time Analysis (<72hr):**  Yes  No  N/A

**Rush Turn Around Time Requested:**  Yes  No  N/A

**Sufficient Volume:**  Yes  No  N/A

**Correct Containers Used:**  Yes  No  N/A

**-Pace Containers Used:**  Yes  No  N/A

**-Pace IR Containers Used:**  Yes  No  N/A

**Containers Intact:**  Yes  No  N/A

**Filtered volume received for Dissolved tests:**  Yes  No  N/A

**Sample Labels match COC:**  Yes  No  N/A

**-Includes date/time/ID/Analysis Matrix:** W

**All containers needing preservation have been checked. (Non-Compliance noted in 13.)**  Yes  No  N/A

**All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2, NaOH+ZnAct ≥9, NaOH ≥12)**  Yes  No  N/A

**exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:**  Yes  No

**Headspace in VOA Vials (>6mm):**  Yes  No  N/A

**Trip Blank Present:**  Yes  No  N/A

**Trip Blank Custody Seals Present:**  Yes  No  N/A

**Pace Trip Blank Lot # (if purchased):** 328

**Client Notification/ Resolution:** Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \* Added trip blank to COC MG 4/16/15

If checked, see attached form for additional comments

**Project Manager Review:** CM **Date:** 4/16/15

July 06, 2015

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

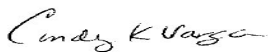
RE: Project: LGRL GW JUNE 2015  
Pace Project No.: 40115956

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between June 04, 2015 and June 30, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Tim Curry, Advanced Disposal Services  
Frank Perugini, ESC (Environmental Sampling Corp)  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40115956001	P-426D	Water	06/03/15 12:10	06/04/15 07:20
40115956002	TRIP BLANK	Water	06/03/15 00:00	06/04/15 07:20
40115956003	P-401D	Water	06/03/15 00:00	06/30/15 15:04
40115956004	P-402E	Water	06/03/15 10:50	06/30/15 15:04
40115956005	P-423D	Water	06/03/15 13:40	06/30/15 15:04
40115956006	P-424D	Water	06/03/15 11:15	06/30/15 15:04
40115956007	P-424SS	Water	06/03/15 11:20	06/30/15 15:04

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40115956001	P-426D	EPA 8260	LAP AMH	46 6	PASI-G PASI-G
40115956002	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40115956003	P-401D		AMH	1	PASI-G
40115956004	P-402E		AMH	1	PASI-G
40115956005	P-423D		AMH	1	PASI-G
40115956006	P-424D		AMH	1	PASI-G
40115956007	P-424SS		AMH	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

**Sample: P-426D**      **Lab ID: 40115956001**      Collected: 06/03/15 12:10      Received: 06/04/15 07:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		06/06/15 20:34	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/06/15 20:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/06/15 20:34	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		06/06/15 20:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		06/06/15 20:34	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		06/06/15 20:34	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		06/06/15 20:34	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		06/06/15 20:34	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		06/06/15 20:34	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		06/06/15 20:34	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		06/06/15 20:34	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		06/06/15 20:34	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		06/06/15 20:34	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		06/06/15 20:34	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/06/15 20:34	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		06/06/15 20:34	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/06/15 20:34	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		06/06/15 20:34	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		06/06/15 20:34	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/06/15 20:34	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		06/06/15 20:34	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/06/15 20:34	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/06/15 20:34	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/06/15 20:34	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/06/15 20:34	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/06/15 20:34	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		06/06/15 20:34	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/06/15 20:34	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/06/15 20:34	1868-53-7	

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## ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-426D**      **Lab ID: 40115956001**      Collected: 06/03/15 12:10      Received: 06/04/15 07:20      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
<b>Surrogates</b>									
Toluene-d8 (S)	102	%	70-130		1		06/06/15 20:34	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.27</b>	Std. Units			1		06/03/15 12:10		
Field Specific Conductance	<b>762</b>	umhos/cm			1		06/03/15 12:10		
Turbidity	<b>N</b>	NTU			1		06/03/15 12:10		
Apparent Color	<b>N</b>	no units			1		06/03/15 12:10		
Odor	<b>N</b>	no units			1		06/03/15 12:10		
Temperature, Water (C)	<b>15.3</b>	deg C			1		06/03/15 12:10		

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## ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

Sample: TRIP BLANK Lab ID: 40115956002 Collected: 06/03/15 00:00 Received: 06/04/15 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		06/06/15 16:04	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/06/15 16:04	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/06/15 16:04	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		06/06/15 16:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		06/06/15 16:04	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		06/06/15 16:04	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		06/06/15 16:04	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		06/06/15 16:04	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		06/06/15 16:04	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		06/06/15 16:04	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		06/06/15 16:04	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		06/06/15 16:04	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		06/06/15 16:04	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		06/06/15 16:04	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		06/06/15 16:04	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		06/06/15 16:04	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		06/06/15 16:04	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		06/06/15 16:04	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		06/06/15 16:04	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/06/15 16:04	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		06/06/15 16:04	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		06/06/15 16:04	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/06/15 16:04	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		06/06/15 16:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		06/06/15 16:04	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		06/06/15 16:04	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		06/06/15 16:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/06/15 16:04	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/06/15 16:04	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

**Sample: TRIP BLANK**      **Lab ID: 40115956002**      Collected: 06/03/15 00:00      Received: 06/04/15 07:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	103	%	70-130		1		06/06/15 16:04	2037-26-5	

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## ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-401D**                      **Lab ID: 40115956003**    Collected: 06/03/15 00:00    Received: 06/30/15 15:04    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>853.45</b>	feet			1		06/03/15 10:45		

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### ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-402E**      **Lab ID: 40115956004**      Collected: 06/03/15 10:50      Received: 06/30/15 15:04      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>853.43</b>	feet			1		06/03/15 10:50		
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### ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-423D**      **Lab ID: 40115956005**      Collected: 06/03/15 13:40      Received: 06/30/15 15:04      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>851.99</b>	feet			1		06/03/15 13:40		
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### ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-424D**      **Lab ID: 40115956006**      Collected: 06/03/15 11:15      Received: 06/30/15 15:04      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>852.46</b>	feet			1		06/03/15 11:15		
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### ANALYTICAL RESULTS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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**Sample: P-424SS**      **Lab ID: 40115956007**      Collected: 06/03/15 11:20      Received: 06/30/15 15:04      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>852.08</b>	feet			1		06/03/15 11:20		
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### QUALITY CONTROL DATA

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

QC Batch: MSV/28766 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40115956001, 40115956002

METHOD BLANK: 1170251 Matrix: Water

Associated Lab Samples: 40115956001, 40115956002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/06/15 11:56	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	06/06/15 11:56	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/06/15 11:56	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/06/15 11:56	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	06/06/15 11:56	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	06/06/15 11:56	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	06/06/15 11:56	
1,2-Dichloroethane	ug/L	<0.17	1.0	06/06/15 11:56	
1,2-Dichloropropane	ug/L	<0.23	1.0	06/06/15 11:56	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	06/06/15 11:56	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	06/06/15 11:56	
2-Butanone (MEK)	ug/L	<3.0	20.0	06/06/15 11:56	
Acetone	ug/L	<3.0	20.0	06/06/15 11:56	
Benzene	ug/L	<0.50	1.0	06/06/15 11:56	
Bromodichloromethane	ug/L	<0.50	1.0	06/06/15 11:56	
Bromoform	ug/L	<0.50	1.0	06/06/15 11:56	
Bromomethane	ug/L	<2.4	5.0	06/06/15 11:56	
Carbon disulfide	ug/L	<0.61	5.0	06/06/15 11:56	
Carbon tetrachloride	ug/L	<0.50	1.0	06/06/15 11:56	
Chlorobenzene	ug/L	<0.50	1.0	06/06/15 11:56	
Chloroethane	ug/L	<0.37	1.0	06/06/15 11:56	
Chloroform	ug/L	<2.5	5.0	06/06/15 11:56	
Chloromethane	ug/L	<0.50	1.0	06/06/15 11:56	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	06/06/15 11:56	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	06/06/15 11:56	
Dibromochloromethane	ug/L	<0.50	1.0	06/06/15 11:56	
Dibromomethane	ug/L	<0.43	1.0	06/06/15 11:56	
Dichlorodifluoromethane	ug/L	<0.22	1.0	06/06/15 11:56	
Ethylbenzene	ug/L	<0.50	1.0	06/06/15 11:56	
m&p-Xylene	ug/L	<1.0	2.0	06/06/15 11:56	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	06/06/15 11:56	
Methylene Chloride	ug/L	<0.23	1.0	06/06/15 11:56	
Naphthalene	ug/L	<2.5	5.0	06/06/15 11:56	
o-Xylene	ug/L	<0.50	1.0	06/06/15 11:56	
Styrene	ug/L	<0.50	1.0	06/06/15 11:56	
Tetrachloroethene	ug/L	<0.50	1.0	06/06/15 11:56	
Tetrahydrofuran	ug/L	<2.0	5.0	06/06/15 11:56	
Toluene	ug/L	<0.50	1.0	06/06/15 11:56	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	06/06/15 11:56	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	06/06/15 11:56	
Trichloroethene	ug/L	<0.33	1.0	06/06/15 11:56	

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### QUALITY CONTROL DATA

Project: LGRL GW JUNE 2015

Project No.: 40115956

METHOD BLANK: 1170251

Matrix: Water

Associated Lab Samples: 40115956001, 40115956002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	06/06/15 11:56	
Vinyl chloride	ug/L	<0.18	1.0	06/06/15 11:56	
4-Bromofluorobenzene (S)	%	103	70-130	06/06/15 11:56	
Dibromofluoromethane (S)	%	101	70-130	06/06/15 11:56	
Toluene-d8 (S)	%	106	70-130	06/06/15 11:56	

LABORATORY CONTROL SAMPLE & LCSD: 1170252

1170253

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.5	54.4	107	109	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	51.4	51.2	103	102	70-130	0	20	
1,1-Dichloroethane	ug/L	50	51.7	54.0	103	108	70-130	4	20	
1,1-Dichloroethene	ug/L	50	48.2	50.5	96	101	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	41.1	86	82	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	52.8	108	106	70-130	3	20	
1,2-Dichlorobenzene	ug/L	50	50.1	51.4	100	103	70-130	3	20	
1,2-Dichloroethane	ug/L	50	54.3	54.0	109	108	70-131	1	20	
1,2-Dichloropropane	ug/L	50	53.4	52.7	107	105	70-130	1	20	
1,3-Dichlorobenzene	ug/L	50	50.0	50.0	100	100	70-130	0	20	
1,4-Dichlorobenzene	ug/L	50	50.0	50.7	100	101	70-130	1	20	
Benzene	ug/L	50	52.3	52.7	105	105	70-130	1	20	
Bromodichloromethane	ug/L	50	55.9	55.5	112	111	70-130	1	20	
Bromoform	ug/L	50	44.3	43.3	89	87	68-130	2	20	
Bromomethane	ug/L	50	51.5	55.3	103	111	38-137	7	20	
Carbon disulfide	ug/L	50	51.2	52.0	102	104	70-154	2	20	
Carbon tetrachloride	ug/L	50	56.9	57.0	114	114	70-130	0	20	
Chlorobenzene	ug/L	50	54.2	55.1	108	110	70-130	2	20	
Chloroethane	ug/L	50	52.3	48.7	105	97	70-136	7	20	
Chloroform	ug/L	50	52.7	53.9	105	108	70-130	2	20	
Chloromethane	ug/L	50	43.4	43.5	87	87	48-144	0	20	
cis-1,2-Dichloroethene	ug/L	50	52.2	52.9	104	106	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	47.8	47.3	96	95	70-130	1	20	
Dibromochloromethane	ug/L	50	48.1	48.5	96	97	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	32.4	33.0	65	66	33-157	2	20	
Ethylbenzene	ug/L	50	57.8	58.9	116	118	70-132	2	20	
m&p-Xylene	ug/L	100	118	119	118	119	70-131	0	20	
Methyl-tert-butyl ether	ug/L	50	45.4	43.6	91	87	48-141	4	20	
Methylene Chloride	ug/L	50	51.4	49.5	103	99	70-130	4	20	
o-Xylene	ug/L	50	56.4	58.2	113	116	70-131	3	20	
Styrene	ug/L	50	57.0	57.6	114	115	70-130	1	20	
Tetrachloroethene	ug/L	50	54.7	54.2	109	108	70-130	1	20	
Toluene	ug/L	50	56.6	56.5	113	113	70-130	0	20	
trans-1,2-Dichloroethene	ug/L	50	51.2	51.4	102	103	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	50	47.6	47.9	95	96	70-130	1	20	

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### QUALITY CONTROL DATA

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

LABORATORY CONTROL SAMPLE & LCSD:		1170252		1170253							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	55.7	55.9	111	112	70-130	0	20		
Trichlorofluoromethane	ug/L	50	48.3	49.5	97	99	50-150	2	20		
Vinyl chloride	ug/L	50	46.7	48.4	93	97	65-142	4	20		
4-Bromofluorobenzene (S)	%				103	105	70-130				
Dibromofluoromethane (S)	%				94	102	70-130				
Toluene-d8 (S)	%				107	107	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1170451		1170452									
Parameter	Units	40115941006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.6	54.5	109	109	70-130	0	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.6	52.3	105	105	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	53.8	53.3	108	107	70-134	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	50.2	49.4	100	99	70-139	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.9	45.4	90	91	50-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.2	51.5	106	103	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.2	50.6	102	101	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	54.8	54.8	110	110	70-132	0	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	53.7	53.3	107	107	70-130	1	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.7	50.3	101	101	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.9	51.2	102	102	70-130	1	20		
Benzene	ug/L	<0.50	50	50	53.3	52.9	107	106	70-130	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	57.1	56.1	114	112	70-132	2	20		
Bromoform	ug/L	<0.50	50	50	44.5	42.8	89	86	68-130	4	20		
Bromomethane	ug/L	<2.4	50	50	54.9	60.1	110	120	38-141	9	20		
Carbon disulfide	ug/L	<0.61	50	50	51.9	39.8	104	80	70-155	26	20	R1	
Carbon tetrachloride	ug/L	<0.50	50	50	58.9	57.7	118	115	70-130	2	20		
Chlorobenzene	ug/L	<0.50	50	50	55.3	54.3	111	109	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	47.9	49.5	96	99	66-152	3	20		
Chloroform	ug/L	<2.5	50	50	52.3	55.3	105	111	70-130	6	20		
Chloromethane	ug/L	<0.50	50	50	42.9	43.5	86	87	44-151	1	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.5	53.7	107	107	70-130	0	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.5	46.5	95	93	70-130	2	20		
Dibromochloromethane	ug/L	<0.50	50	50	48.8	46.3	98	93	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	32.1	32.0	64	64	29-160	0	20		
Ethylbenzene	ug/L	<0.50	50	50	58.8	57.2	118	114	70-132	3	20		
m&p-Xylene	ug/L	<1.0	100	100	117	116	117	116	70-131	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.1	45.0	88	90	48-143	2	20		
Methylene Chloride	ug/L	<0.23	50	50	50.1	47.8	100	96	70-130	5	20		
o-Xylene	ug/L	<0.50	50	50	57.9	56.2	116	112	70-131	3	20		
Styrene	ug/L	<0.50	50	50	58.0	54.7	116	109	70-130	6	20		
Tetrachloroethene	ug/L	<0.50	50	50	55.7	55.6	111	111	70-130	0	20		
Toluene	ug/L	<0.50	50	50	57.3	55.4	115	111	70-130	3	20		

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: LGRL GW JUNE 2015

Pace Project No.: 40115956

Parameter	Units	1170451		1170452		MS % Rec	MSD % Rec	% Rec	Limits	Max RPD	Qual
		40115941006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.6	52.1	103	104	70-132	1	20
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.4	46.5	95	93	70-130	2	20
Trichloroethene	ug/L	<0.33	50	50	56.2	56.3	112	113	70-130	0	20
Trichlorofluoromethane	ug/L	<0.18	50	50	47.9	49.0	96	98	50-153	2	20
Vinyl chloride	ug/L	<0.18	50	50	46.5	46.6	93	93	60-155	0	20
4-Bromofluorobenzene (S)	%						103	103	70-130		
Dibromofluoromethane (S)	%						101	100	70-130		
Toluene-d8 (S)	%						106	105	70-130		

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.

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## QUALIFIERS

Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

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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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

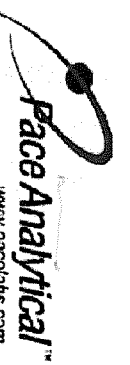
Project: LGRL GW JUNE 2015

Pace Project No.: 40115956

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40115956001	P-426D	EPA 8260	MSV/28766		
40115956002	TRIP BLANK	EPA 8260	MSV/28766		
40115956001	P-426D		PM/		
40115956003	P-401D		PM/		
40115956004	P-402E		PM/		
40115956005	P-423D		PM/		
40115956006	P-424D		PM/		
40115956007	P-424SS		PM/		

### 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: ADS Glacier Ridge  
**Section B** Required Project Information: Report To: Same  
**Section C** Invoice Information: Attention: Same  
 Copy To: Frank Perugini - ESC, Matt Bull - SCS  
 Eng. Sheren Clark - SCS Eng  
 Company Name: Pace Project Manager: Cindy Varga  
 Address: Pace Quote Reference: Pace Profile #: 4172 line 17  
 Requested Due Date/TAT: Project Number:

*Handwritten initials: BVN*

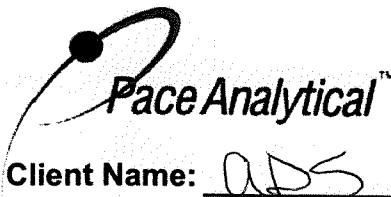
**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER   
 SITE LOCATION: GA  IL  IN  MI  NC   
 OH  SC  WI  OTHER   
 Filtered (Y/N)  N  Y  Y   
 Requested Ant: 8260 NR 507 VOCs  
 Residual Chlorine (Y/N)

Page: 1 of 1

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			Temp in °C	SAMPLE CONDITIONS			
		Matrix Code	Sample Type G+GRAB C=COMP	COMPOSITE START DATE	COMPOSITE END/GRAB DATE			hno3	HCL	Unpreserved		DATE	TIME	Received on Ice	Custody Sealed Cooler
1	001 P-426D	GW6	G+GRAB	6/3/15	12:05:33	3	3				6-415 720	EDI	Y/N	Y/N	Y/N
2	002 Trip Blank					2	2						Y/N	Y/N	Y/N
3													Y/N	Y/N	Y/N
4													Y/N	Y/N	Y/N
5													Y/N	Y/N	Y/N
6													Y/N	Y/N	Y/N
7													Y/N	Y/N	Y/N
8													Y/N	Y/N	Y/N
9													Y/N	Y/N	Y/N
10													Y/N	Y/N	Y/N
11													Y/N	Y/N	Y/N
12													Y/N	Y/N	Y/N

Additional Comments:

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Sarah Freimark*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): *6/3/15*  
**RECEIVED BY / AFFILIATION**  
 DATE: *6-4-15* TIME: *7:20*  
**SAMPLE CONDITIONS**  
 Temp in °C: *EDI*  
 Received on Ice:  Y/N  
 Custody Sealed Cooler:  Y/N  
 Samples Intact:  Y/N



Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Project # **WO# : 40115956**

Client Name: ADS

Courier:  Fed Ex  UPS  Client  Pace Other: Dunham  
Tracking #: 9983516



Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: na    Type of Ice:  Wet  Blue  Dry  None     Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 20 / Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no     no

Person examining contents:  
Date: 6-4-15  
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: <u>mm 6-4-15</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm): <u>mm 6-4-15</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present: <u>mm 6-4-15</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: mm Date: 6-4-15



August 27, 2015

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

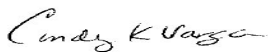
RE: Project: LGRL INVESTIGATION WELLS AUG  
Pace Project No.: 40119572

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between August 13, 2015 and August 25, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Frank Perugini, ESC (Environmental Sampling Corp)  
Kari Rabideau, Advanced Disposal Hickory Meadows  
Landfill, LLC  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40119572001	P-426D	Water	08/12/15 11:45	08/13/15 08:05
40119572002	TRIP BLANK	Water	08/12/15 00:00	08/13/15 08:05
40119572003	P-401D	Water	08/12/15 00:00	08/25/15 09:57
40119572004	P-402E	Water	08/12/15 00:00	08/25/15 09:57
40119572005	P-423D	Water	08/12/15 00:00	08/25/15 09:57
40119572006	P-424D	Water	08/12/15 00:00	08/25/15 09:57
40119572007	P-424SS	Water	08/12/15 00:00	08/25/15 09:57

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40119572001	P-426D	EPA 6010	JBR	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40119572002	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40119572003	P-401D		AMH	1	PASI-G
40119572004	P-402E		AMH	1	PASI-G
40119572005	P-423D		AMH	1	PASI-G
40119572006	P-424D		AMH	1	PASI-G
40119572007	P-424SS		AMH	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Sample Project No.: 40119572

Sample: P-426D Lab ID: 40119572001 Collected: 08/12/15 11:45 Received: 08/13/15 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>405000</b>	ug/L	2000	150	1		08/17/15 21:53		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		08/14/15 18:10	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		08/14/15 18:10	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		08/14/15 18:10	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		08/14/15 18:10	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		08/14/15 18:10	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		08/14/15 18:10	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		08/14/15 18:10	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		08/14/15 18:10	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		08/14/15 18:10	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		08/14/15 18:10	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		08/14/15 18:10	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		08/14/15 18:10	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		08/14/15 18:10	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		08/14/15 18:10	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		08/14/15 18:10	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		08/14/15 18:10	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		08/14/15 18:10	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		08/14/15 18:10	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		08/14/15 18:10	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		08/14/15 18:10	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		08/14/15 18:10	75-69-4	
Vinyl chloride	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		08/14/15 18:10	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		08/14/15 18:10	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		08/14/15 18:10	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		08/14/15 18:10	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		08/14/15 18:10	156-60-5	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

**Sample: P-426D**      **Lab ID: 40119572001**      Collected: 08/12/15 11:45      Received: 08/13/15 08:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		08/14/15 18:10	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/14/15 18:10	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/14/15 18:10	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		08/14/15 18:10	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.20</b>	Std. Units			1		08/12/15 11:45		
Field Specific Conductance	<b>965</b>	umhos/cm			1		08/12/15 11:45		
Turbidity	<b>N</b>	NTU			1		08/12/15 11:45		
Apparent Color	<b>N</b>	no units			1		08/12/15 11:45		
Odor	<b>N</b>	no units			1		08/12/15 11:45		
Temperature, Water (C)	<b>15.8</b>	deg C			1		08/12/15 11:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>21.5</b>	mg/L	4.0	2.0	1		08/25/15 21:36	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>337</b>	mg/L	20.0	8.6	1		08/26/15 12:18		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

Sample: TRIP BLANK Lab ID: 40119572002 Collected: 08/12/15 00:00 Received: 08/13/15 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		08/14/15 13:39	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/14/15 13:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/14/15 13:39	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		08/14/15 13:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		08/14/15 13:39	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		08/14/15 13:39	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		08/14/15 13:39	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		08/14/15 13:39	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		08/14/15 13:39	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		08/14/15 13:39	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		08/14/15 13:39	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		08/14/15 13:39	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		08/14/15 13:39	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		08/14/15 13:39	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		08/14/15 13:39	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		08/14/15 13:39	1634-04-4	
Methylene Chloride	0.28J	ug/L	1.0	0.23	1		08/14/15 13:39	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		08/14/15 13:39	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		08/14/15 13:39	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/14/15 13:39	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		08/14/15 13:39	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		08/14/15 13:39	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/14/15 13:39	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		08/14/15 13:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		08/14/15 13:39	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/14/15 13:39	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		08/14/15 13:39	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/14/15 13:39	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/14/15 13:39	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

**Sample: TRIP BLANK**      **Lab ID: 40119572002**      Collected: 08/12/15 00:00      Received: 08/13/15 08:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1		08/14/15 13:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

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**Sample: P-401D**      **Lab ID: 40119572003**      Collected: 08/12/15 00:00      Received: 08/25/15 09:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>850.31</b>	feet			1		08/12/15 00:00		
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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

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**Sample: P-402E**                      **Lab ID: 40119572004**    Collected: 08/12/15 00:00    Received: 08/25/15 09:57    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Static Water Level	<b>850.37</b>	feet			1		08/12/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

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**Sample: P-423D**                      **Lab ID: 40119572005**    Collected: 08/12/15 00:00    Received: 08/25/15 09:57    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>848.89</b>	feet			1		08/12/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

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**Sample: P-424D**                      **Lab ID: 40119572006**    Collected: 08/12/15 00:00    Received: 08/25/15 09:57    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>849.20</b>	feet			1		08/12/15 00:00		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

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**Sample: P-424SS**      **Lab ID: 40119572007**      Collected: 08/12/15 00:00      Received: 08/25/15 09:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
	Analytical Method:								
Static Water Level	<b>848.78</b>	feet			1		08/12/15 00:00		

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

QC Batch:	ICP/11024	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples:	40119572001		

METHOD BLANK: 1207290 Matrix: Water

Associated Lab Samples: 40119572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	08/17/15 21:32	

LABORATORY CONTROL SAMPLE: 1207291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32800			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1207292 1207293

Parameter	Units	40119535001 Result	MS Spike Conc.	MSD Spike Conc.	1207292		1207293		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Total Hardness by 2340B, Dissolved	ug/L	1340000			1340000	1350000				0	20

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG  
Pace Project No.: 40119572

QC Batch: MSV/29792 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40119572001, 40119572002

METHOD BLANK: 1206365 Matrix: Water  
Associated Lab Samples: 40119572001, 40119572002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/14/15 09:03	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	08/14/15 09:03	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/14/15 09:03	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/14/15 09:03	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	08/14/15 09:03	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	08/14/15 09:03	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	08/14/15 09:03	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/14/15 09:03	
1,2-Dichloropropane	ug/L	<0.23	1.0	08/14/15 09:03	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	08/14/15 09:03	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	08/14/15 09:03	
2-Butanone (MEK)	ug/L	<3.0	20.0	08/14/15 09:03	
Acetone	ug/L	<3.0	20.0	08/14/15 09:03	
Benzene	ug/L	<0.50	1.0	08/14/15 09:03	
Bromodichloromethane	ug/L	<0.50	1.0	08/14/15 09:03	
Bromoform	ug/L	<0.50	1.0	08/14/15 09:03	
Bromomethane	ug/L	<2.4	5.0	08/14/15 09:03	
Carbon disulfide	ug/L	<0.61	5.0	08/14/15 09:03	
Carbon tetrachloride	ug/L	<0.50	1.0	08/14/15 09:03	
Chlorobenzene	ug/L	<0.50	1.0	08/14/15 09:03	
Chloroethane	ug/L	<0.37	1.0	08/14/15 09:03	
Chloroform	ug/L	<2.5	5.0	08/14/15 09:03	
Chloromethane	ug/L	<0.50	1.0	08/14/15 09:03	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	08/14/15 09:03	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	08/14/15 09:03	
Dibromochloromethane	ug/L	<0.50	1.0	08/14/15 09:03	
Dibromomethane	ug/L	<0.43	1.0	08/14/15 09:03	
Dichlorodifluoromethane	ug/L	<0.22	1.0	08/14/15 09:03	
Ethylbenzene	ug/L	<0.50	1.0	08/14/15 09:03	
m&p-Xylene	ug/L	<1.0	2.0	08/14/15 09:03	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	08/14/15 09:03	
Methylene Chloride	ug/L	<0.23	1.0	08/14/15 09:03	
Naphthalene	ug/L	<2.5	5.0	08/14/15 09:03	
o-Xylene	ug/L	<0.50	1.0	08/14/15 09:03	
Styrene	ug/L	<0.50	1.0	08/14/15 09:03	
Tetrachloroethene	ug/L	<0.50	1.0	08/14/15 09:03	
Tetrahydrofuran	ug/L	<2.0	5.0	08/14/15 09:03	
Toluene	ug/L	<0.50	1.0	08/14/15 09:03	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	08/14/15 09:03	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	08/14/15 09:03	
Trichloroethene	ug/L	<0.33	1.0	08/14/15 09:03	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

METHOD BLANK: 1206365

Matrix: Water

Associated Lab Samples: 40119572001, 40119572002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	08/14/15 09:03	
Vinyl chloride	ug/L	<0.18	1.0	08/14/15 09:03	
4-Bromofluorobenzene (S)	%	97	70-130	08/14/15 09:03	
Dibromofluoromethane (S)	%	107	70-130	08/14/15 09:03	
Toluene-d8 (S)	%	99	70-130	08/14/15 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1206366

1206367

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	57.7	119	115	70-130	3	20	
1,1,2-Trichloroethane	ug/L	50	53.7	52.2	107	104	70-130	3	20	
1,1-Dichloroethane	ug/L	50	57.3	55.8	115	112	70-130	3	20	
1,1-Dichloroethene	ug/L	50	57.5	56.6	115	113	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	50.1	102	100	50-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.3	53.1	107	106	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	50.9	50.8	102	102	70-130	0	20	
1,2-Dichloroethane	ug/L	50	57.6	55.8	115	112	70-131	3	20	
1,2-Dichloropropane	ug/L	50	56.3	52.9	113	106	70-130	6	20	
1,3-Dichlorobenzene	ug/L	50	50.9	50.2	102	100	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	49.5	48.3	99	97	70-130	2	20	
Benzene	ug/L	50	56.6	55.2	113	110	70-130	3	20	
Bromodichloromethane	ug/L	50	55.7	54.1	111	108	70-130	3	20	
Bromoform	ug/L	50	53.0	50.9	106	102	68-130	4	20	
Bromomethane	ug/L	50	55.7	55.0	111	110	38-137	1	20	
Carbon disulfide	ug/L	50	57.9	56.3	116	113	70-154	3	20	
Carbon tetrachloride	ug/L	50	61.2	58.3	122	117	70-130	5	20	
Chlorobenzene	ug/L	50	52.5	50.9	105	102	70-130	3	20	
Chloroethane	ug/L	50	60.0	56.3	120	113	70-136	6	20	
Chloroform	ug/L	50	57.3	54.9	115	110	70-130	4	20	
Chloromethane	ug/L	50	53.5	53.7	107	107	48-144	0	20	
cis-1,2-Dichloroethene	ug/L	50	54.3	53.0	109	106	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	56.5	54.8	113	110	70-130	3	20	
Dibromochloromethane	ug/L	50	54.5	52.0	109	104	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	39.6	37.9	79	76	33-157	4	20	
Ethylbenzene	ug/L	50	55.5	53.9	111	108	70-132	3	20	
m&p-Xylene	ug/L	100	111	109	111	109	70-131	2	20	
Methyl-tert-butyl ether	ug/L	50	57.0	55.7	114	111	48-141	2	20	
Methylene Chloride	ug/L	50	55.2	54.1	110	108	70-130	2	20	
o-Xylene	ug/L	50	55.5	54.4	111	109	70-131	2	20	
Styrene	ug/L	50	55.6	55.1	111	110	70-130	1	20	
Tetrachloroethene	ug/L	50	53.0	52.2	106	104	70-130	2	20	
Toluene	ug/L	50	54.6	53.3	109	107	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	58.3	55.9	117	112	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	50	52.6	50.8	105	102	70-130	3	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

LABORATORY CONTROL SAMPLE & LCSD:		1206366		1206367							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Trichloroethene	ug/L	50	55.3	53.1	111	106	70-130	4	20		
Trichlorofluoromethane	ug/L	50	57.3	55.3	115	111	50-150	4	20		
Vinyl chloride	ug/L	50	55.5	54.7	111	109	65-142	1	20		
4-Bromofluorobenzene (S)	%				103	104	70-130				
Dibromofluoromethane (S)	%				106	106	70-130				
Toluene-d8 (S)	%				100	100	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1206402		1206403								
Parameter	Units	40119556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	58.6	57.6	117	115	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.4	52.0	107	104	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	56.5	55.3	113	111	70-134	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	57.6	55.5	115	111	70-139	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.4	52.4	99	105	50-150	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.3	53.2	107	106	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.3	50.9	103	102	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	57.2	54.7	114	109	70-132	5	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	54.3	54.0	109	108	70-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.4	51.6	103	103	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.9	50.6	99	101	70-130	1	20	
Benzene	ug/L	<0.50	50	50	55.8	55.0	112	110	70-130	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	55.0	54.2	110	108	70-132	1	20	
Bromoform	ug/L	<0.50	50	50	51.7	50.2	103	100	68-130	3	20	
Bromomethane	ug/L	<2.4	50	50	57.0	58.9	114	118	38-141	3	20	
Carbon disulfide	ug/L	<0.61	50	50	56.8	54.7	113	109	70-155	4	20	
Carbon tetrachloride	ug/L	<0.50	50	50	59.2	58.3	118	117	70-130	1	20	
Chlorobenzene	ug/L	<0.50	50	50	51.2	50.7	102	101	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	57.7	54.8	115	110	66-152	5	20	
Chloroform	ug/L	<2.5	50	50	55.7	54.7	111	109	70-130	2	20	
Chloromethane	ug/L	0.72J	50	50	52.6	50.3	104	99	44-151	4	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.1	52.9	106	106	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	55.5	54.6	111	109	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	52.9	52.7	106	105	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	36.4	34.8	73	70	29-160	5	20	
Ethylbenzene	ug/L	<0.50	50	50	54.9	52.9	110	106	70-132	4	20	
m&p-Xylene	ug/L	<1.0	100	100	110	107	110	107	70-131	3	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	57.2	55.7	114	111	48-143	3	20	
Methylene Chloride	ug/L	<0.23	50	50	55.6	53.1	111	106	70-130	5	20	
o-Xylene	ug/L	<0.50	50	50	54.1	54.0	108	108	70-131	0	20	
Styrene	ug/L	<0.50	50	50	54.4	54.3	109	109	70-130	0	20	
Tetrachloroethene	ug/L	<0.50	50	50	51.5	51.9	103	104	70-130	1	20	
Toluene	ug/L	<0.50	50	50	53.4	53.1	107	106	70-130	1	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1206402		1206403		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40119556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	56.9	56.0	114	112	70-132	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.3	51.0	103	102	70-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	53.6	53.2	107	106	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	56.3	54.7	113	109	50-153	3	20		
Vinyl chloride	ug/L	<0.18	50	50	54.4	53.3	109	107	60-155	2	20		
4-Bromofluorobenzene (S)	%						106	102	70-130				
Dibromofluoromethane (S)	%						108	106	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

QC Batch: WETA/29959 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
 Associated Lab Samples: 40119572001

METHOD BLANK: 1208669 Matrix: Water  
 Associated Lab Samples: 40119572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	08/25/15 17:11	

LABORATORY CONTROL SAMPLE: 1208670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208671 1208672

Parameter	Units	40119487001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	29.8	20	20	50.9	51.0	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208673 1208674

Parameter	Units	40119805004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	17.8	20	20	38.2	38.1	102	101	90-110	0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS AUG  
Pace Project No.: 40119572

QC Batch: WETA/30021 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 40119572001

METHOD BLANK: 1211188 Matrix: Water  
Associated Lab Samples: 40119572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	08/26/15 12:15	

LABORATORY CONTROL SAMPLE: 1211189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	105	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211190 1211191

Parameter	Units	40119861009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	438	200	200	649	656	106	109	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211192 1211193

Parameter	Units	40119861013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	531	200	200	738	734	103	101	90-110	1	20	

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## QUALIFIERS

Project: LGRL INVESTIGATION WELLS AUG  
Pace Project No.: 40119572

---

### 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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS AUG

Pace Project No.: 40119572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40119572001	P-426D	EPA 6010	ICP/11024		
40119572001	P-426D	EPA 8260	MSV/29792		
40119572002	TRIP BLANK	EPA 8260	MSV/29792		
40119572001	P-426D		PM/		
40119572003	P-401D		PM/		
40119572004	P-402E		PM/		
40119572005	P-423D		PM/		
40119572006	P-424D		PM/		
40119572007	P-424SS		PM/		
40119572001	P-426D	EPA 300.0	WETA/29959		
40119572001	P-426D	EPA 310.2	WETA/30021		

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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.

CR

40119572

<b>Section A</b> Required Client Information: ADS Glacier Ridge N7296 Hwy V Horizon, WI 53032 Email To: Tim Curry - ADS Phone: _____ Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: Same Copy To: Frank Perugini - ESC, Mart Bull - SCS Eng. Sherrin Clark - SCS Eng Purchase Order No.: _____ Project Name: LGR1 Investigation Wells Project Number: _____		<b>Section C</b> Invoice Information: Attention: Same Company Name: Address: Pace Quote Reference: Pace Project Manager: Cindy Varga Pace Profile #: 3707	
<b>REGULATORY AGENCY</b> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		<b>SITE</b> LOCATION Filtered (Y/N) _____ Requested Ant _____ Residual Chlorine (Y/N) _____ Pace Project Number Lab ID: _____		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ SITE LOCATION Filtered (Y/N) _____ Requested Ant _____ Residual Chlorine (Y/N) _____ Pace Project Number Lab ID: _____	

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WATER WATER PRODUCT SOIL/SOLID OIL AIR AIR OTHER TISSUE	COLLECTED		# OF CONTAINERS	PRESERVATIVES	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
			MATRIX CODE	SAMPLE TYPE										G+GRAB C-COMP
1	P-426D	001	W6	8/12 1145	15.8	5								
2	* Trip Blank	002												
3														
4														
5														
6														
7	* In shipment Lab added to COL.													
8	8-13-15 SCW													
9														
10														
11														
12														

**Additional Comments:**

RELINQUISHED BY / AFFILIATION: *[Signature]*  
 DATE: 8/12/15  
 TIME: 1800

ACCEPTED BY / AFFILIATION: *[Signature]*  
 DATE: 8/13/15  
 TIME: 0805

Temp in °C: \_\_\_\_\_  
 Received on Ice: Y/N \_\_\_\_\_  
 Custody Sealed Cooler: Y/N \_\_\_\_\_  
 Samples Intact: Y/N \_\_\_\_\_

SAMPLER NAME AND SIGNATURE: *[Signature]*  
 PRINT Name of SAMPLER: Scott Perugini  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): 08/12/15

# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

**Pace Analytical™**  
Client Name: ADS

Project / **WO#: 40119572**

Courier:  Fed Ex  UPS  Client  Pace Other: Durham  
Tracking #: 1036421



Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: N/A    Type of Ice:  Wet  Blue  Dry  None     Samples on ice, cooling process has begun  
Cooler Temperature: Unconf: ROT /Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:  
Date: 8-13-15  
Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:		
All containers needing preservation have been checked (Non-Compliance noted in 13.)	<input checked="" 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	
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH+ZnAct ≥9, NaOH ≥12) exceptions/ VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SKW</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>In shipment Lab added to COC</u>
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):		

8-13-15 SKW

**Client Notification/ Resolution:**

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: CW

Date: 8/13/15



November 02, 2015

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

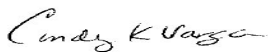
RE: Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Frank Perugini, ESC (Environmental Sampling Corp)  
Kari Rabideau, Advanced Disposal Hickory Meadows  
Landfill, LLC  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
Virginia VELAP ID: 460263

North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
US Dept of Agriculture #: S-76505  
Virginia VELAP ID: 460263  
Virginia VELAP Certification ID: 460263  
Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40122685001	MW-1B	Water	10/09/15 09:00	10/10/15 08:40
40122685002	P-402E	Water	10/09/15 09:05	10/10/15 08:40
40122685003	P-401D	Water	10/09/15 09:40	10/10/15 08:40
40122685004	P-424SS	Water	10/09/15 11:25	10/10/15 08:40
40122685005	P-424D	Water	10/09/15 11:55	10/10/15 08:40
40122685006	P-423D	Water	10/09/15 12:30	10/10/15 08:40
40122685007	P-426D	Water	10/09/15 13:20	10/10/15 08:40
40122685008	P-422B	Water	10/09/15 12:05	10/10/15 08:40
40122685009	TRIP BLANK	Water	10/09/15 00:00	10/10/15 08:40
40122685010	P-401D	Water	10/02/15 00:00	10/10/15 08:40
40122685011	P-402E	Water	10/02/15 00:00	10/10/15 08:40
40122685012	P-423D	Water	10/02/15 00:00	10/10/15 08:40
40122685013	P-424D	Water	10/02/15 00:00	10/10/15 08:40
40122685014	P-424 SS	Water	10/02/15 00:00	10/10/15 08:40
40122685015	P-426D	Water	10/02/15 00:00	10/10/15 08:40
40122685016	MW-1B	Water	10/02/15 00:00	10/10/15 08:40
40122685017	P-422B	Water	10/02/15 00:00	10/10/15 08:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40122685001	MW-1B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685002	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685003	P-401D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685004	P-424SS	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685005	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685006	P-423D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685007	P-426D	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685008	P-422B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	46	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
			JLJ	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40122685009	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40122685010	P-401D		JLJ	1	PASI-G
40122685011	P-402E		JLJ	1	PASI-G
40122685012	P-423D		JLJ	1	PASI-G
40122685013	P-424D		JLJ	1	PASI-G
40122685014	P-424 SS		JLJ	1	PASI-G
40122685015	P-426D		JLJ	1	PASI-G
40122685016	MW-1B		JLJ	1	PASI-G
40122685017	P-422B		JLJ	1	PASI-G

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Project No.: 40122685

Sample: **MW-1B** Lab ID: **40122685001** Collected: 10/09/15 09:00 Received: 10/10/15 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>290000</b>	ug/L	2000	150	1		10/27/15 00:19		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		10/15/15 21:00	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		10/15/15 21:00	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		10/15/15 21:00	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		10/15/15 21:00	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/15/15 21:00	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/15/15 21:00	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/15/15 21:00	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/15/15 21:00	78-93-3	
Acetone	<b>22.1</b>	ug/L	20.0	3.0	1		10/15/15 21:00	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		10/15/15 21:00	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		10/15/15 21:00	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/15/15 21:00	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/15/15 21:00	67-66-3	
Chloromethane	<b>0.63J</b>	ug/L	1.0	0.50	1		10/15/15 21:00	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/15/15 21:00	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		10/15/15 21:00	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/15/15 21:00	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/15/15 21:00	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/15/15 21:00	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		10/15/15 21:00	109-99-9	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	108-88-3	
Trichloroethene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		10/15/15 21:00	79-01-6	
Trichlorofluoromethane	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/15/15 21:00	75-69-4	
Vinyl chloride	<b>1.3</b>	ug/L	1.0	0.18	1		10/15/15 21:00	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		10/15/15 21:00	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	10061-01-5	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/15/15 21:00	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/15/15 21:00	95-47-6	
trans-1,2-Dichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		10/15/15 21:00	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: MW-1B**      **Lab ID: 40122685001**      Collected: 10/09/15 09:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/15/15 21:00	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/15/15 21:00	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/15/15 21:00	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/15/15 21:00	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.44</b>	Std. Units			1		10/09/15 09:00		
Field Specific Conductance	<b>643</b>	umhos/cm			1		10/09/15 09:00		
Turbidity	<b>N</b>	NTU			1		10/09/15 09:00		
Apparent Color	<b>N</b>	no units			1		10/09/15 09:00		
Odor	<b>N</b>	no units			1		10/09/15 09:00		
Temperature, Water (C)	<b>14.1</b>	deg C			1		10/09/15 09:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>64.4</b>	mg/L	20.0	10.0	5		10/21/15 18:37	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>227</b>	mg/L	20.0	8.6	1		10/16/15 13:34		

**Sample: P-402E**      **Lab ID: 40122685002**      Collected: 10/09/15 09:05      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>465000</b>	ug/L	2000	150	1		10/27/15 00:22		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;1.2</b>	ug/L	2.5	1.2	2.5		10/16/15 03:12	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.49</b>	ug/L	2.5	0.49	2.5		10/16/15 03:12	79-00-5	
1,1-Dichloroethane	<b>&lt;0.60</b>	ug/L	2.5	0.60	2.5		10/16/15 03:12	75-34-3	
1,1-Dichloroethene	<b>&lt;1.0</b>	ug/L	2.5	1.0	2.5		10/16/15 03:12	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;5.4</b>	ug/L	12.5	5.4	2.5		10/16/15 03:12	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.44</b>	ug/L	2.5	0.44	2.5		10/16/15 03:12	106-93-4	
1,2-Dichlorobenzene	<b>&lt;1.2</b>	ug/L	2.5	1.2	2.5		10/16/15 03:12	95-50-1	
1,2-Dichloroethane	<b>&lt;0.42</b>	ug/L	2.5	0.42	2.5		10/16/15 03:12	107-06-2	
1,2-Dichloropropane	<b>&lt;0.58</b>	ug/L	2.5	0.58	2.5		10/16/15 03:12	78-87-5	
1,3-Dichlorobenzene	<b>&lt;1.2</b>	ug/L	2.5	1.2	2.5		10/16/15 03:12	541-73-1	
1,4-Dichlorobenzene	<b>&lt;1.2</b>	ug/L	2.5	1.2	2.5		10/16/15 03:12	106-46-7	
2-Butanone (MEK)	<b>&lt;7.4</b>	ug/L	50.0	7.4	2.5		10/16/15 03:12	78-93-3	
Acetone	<b>19.6J</b>	ug/L	50.0	7.4	2.5		10/16/15 03:12	67-64-1	
Benzene	<b>&lt;1.2</b>	ug/L	2.5	1.2	2.5		10/16/15 03:12	71-43-2	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-402E**      **Lab ID: 40122685002**      Collected: 10/09/15 09:05      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		10/16/15 03:12	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		10/16/15 03:12	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	108-90-7	
Chloroethane	5.2	ug/L	2.5	0.94	2.5		10/16/15 03:12	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		10/16/15 03:12	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		10/16/15 03:12	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		10/16/15 03:12	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		10/16/15 03:12	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		10/16/15 03:12	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		10/16/15 03:12	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		10/16/15 03:12	109-99-9	
Toluene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	108-88-3	
Trichloroethene	4.8	ug/L	2.5	0.83	2.5		10/16/15 03:12	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		10/16/15 03:12	75-69-4	
Vinyl chloride	25.2	ug/L	2.5	0.44	2.5		10/16/15 03:12	75-01-4	
cis-1,2-Dichloroethene	287	ug/L	2.5	0.64	2.5		10/16/15 03:12	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		10/16/15 03:12	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		10/16/15 03:12	95-47-6	
trans-1,2-Dichloroethene	8.4	ug/L	2.5	0.64	2.5		10/16/15 03:12	156-60-5	
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		10/16/15 03:12	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		2.5		10/16/15 03:12	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		2.5		10/16/15 03:12	1868-53-7	
Toluene-d8 (S)	105	%	70-130		2.5		10/16/15 03:12	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.23	Std. Units			1		10/09/15 09:05		
Field Specific Conductance	960	umhos/cm			1		10/09/15 09:05		
Turbidity	N	NTU			1		10/09/15 09:05		
Apparent Color	N	no units			1		10/09/15 09:05		
Odor	N	no units			1		10/09/15 09:05		
Temperature, Water (C)	12.5	deg C			1		10/09/15 09:05		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	64.5	mg/L	20.0	10.0	5		10/21/15 12:51	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-402E**      **Lab ID: 40122685002**      Collected: 10/09/15 09:05      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>389</b>	mg/L	40.0	17.3	2		10/16/15 13:34		

**Sample: P-401D**      **Lab ID: 40122685003**      Collected: 10/09/15 09:40      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>289000</b>	ug/L	2000	150	1		10/27/15 00:24		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		10/16/15 00:39	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		10/16/15 00:39	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		10/16/15 00:39	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		10/16/15 00:39	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/16/15 00:39	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/16/15 00:39	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/16/15 00:39	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/16/15 00:39	78-93-3	
Acetone	<b>21.2</b>	ug/L	20.0	3.0	1		10/16/15 00:39	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		10/16/15 00:39	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		10/16/15 00:39	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/16/15 00:39	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/16/15 00:39	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/16/15 00:39	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		10/16/15 00:39	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/16/15 00:39	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/16/15 00:39	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/16/15 00:39	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 00:39	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		10/16/15 00:39	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-401D**      **Lab ID: 40122685003**      Collected: 10/09/15 09:40      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 00:39	108-88-3	
Trichloroethene	0.41J	ug/L	1.0	0.33	1		10/16/15 00:39	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 00:39	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/16/15 00:39	75-01-4	
cis-1,2-Dichloroethene	11.0	ug/L	1.0	0.26	1		10/16/15 00:39	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 00:39	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 00:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 00:39	95-47-6	
trans-1,2-Dichloroethene	0.43J	ug/L	1.0	0.26	1		10/16/15 00:39	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 00:39	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/16/15 00:39	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/16/15 00:39	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/16/15 00:39	2037-26-5	

<b>Field Data</b> Analytical Method:									
Field pH	7.66	Std. Units			1		10/09/15 09:40		
Field Specific Conductance	735	umhos/cm			1		10/09/15 09:40		
Turbidity	N	NTU			1		10/09/15 09:40		
Apparent Color	N	no units			1		10/09/15 09:40		
Odor	N	no units			1		10/09/15 09:40		
Temperature, Water (C)	12.3	deg C			1		10/09/15 09:40		

<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	12.6	mg/L	4.0	2.0	1		10/21/15 13:26	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	350	mg/L	20.0	8.6	1		10/16/15 14:28		

**Sample: P-424SS**      **Lab ID: 40122685004**      Collected: 10/09/15 11:25      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	295000	ug/L	2000	150	1		10/27/15 00:26		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/16/15 01:01	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/16/15 01:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/16/15 01:01	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/16/15 01:01	96-12-8	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-424SS**      **Lab ID: 40122685004**      Collected: 10/09/15 11:25      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/16/15 01:01	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/16/15 01:01	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/16/15 01:01	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/16/15 01:01	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/16/15 01:01	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/16/15 01:01	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/16/15 01:01	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/16/15 01:01	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/16/15 01:01	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/16/15 01:01	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/16/15 01:01	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/16/15 01:01	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/16/15 01:01	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/16/15 01:01	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/16/15 01:01	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/16/15 01:01	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 01:01	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/16/15 01:01	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 01:01	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 01:01	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:01	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 01:01	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 01:01	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/16/15 01:01	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/16/15 01:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/16/15 01:01	2037-26-5	

**Field Data**

Analytical Method:

Field pH	<b>7.65</b>	Std. Units			1		10/09/15 11:25		
Field Specific Conductance	<b>576</b>	umhos/cm			1		10/09/15 11:25		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-424SS**      **Lab ID: 40122685004**      Collected: 10/09/15 11:25      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Turbidity	N	NTU			1		10/09/15 11:25		
Apparent Color	N	no units			1		10/09/15 11:25		
Odor	N	no units			1		10/09/15 11:25		
Temperature, Water (C)	13.8	deg C			1		10/09/15 11:25		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	2.4J	mg/L	4.0	2.0	1		10/21/15 13:37	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	323	mg/L	20.0	8.6	1		10/16/15 14:28		

**Sample: P-424D**      **Lab ID: 40122685005**      Collected: 10/09/15 11:55      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	449000	ug/L	2000	150	1		10/27/15 00:28		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/16/15 01:23	79-00-5	
1,1-Dichloroethane	0.88J	ug/L	1.0	0.24	1		10/16/15 01:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/16/15 01:23	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/16/15 01:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/16/15 01:23	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/16/15 01:23	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/16/15 01:23	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/16/15 01:23	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/16/15 01:23	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/16/15 01:23	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/16/15 01:23	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	108-90-7	
Chloroethane	3.5	ug/L	1.0	0.37	1		10/16/15 01:23	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/16/15 01:23	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	74-87-3	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-424D**      **Lab ID: 40122685005**      Collected: 10/09/15 11:55      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/16/15 01:23	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/16/15 01:23	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/16/15 01:23	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/16/15 01:23	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/16/15 01:23	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/16/15 01:23	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	108-88-3	
Trichloroethene	2.2	ug/L	1.0	0.33	1		10/16/15 01:23	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 01:23	75-69-4	
Vinyl chloride	11.4	ug/L	1.0	0.18	1		10/16/15 01:23	75-01-4	
cis-1,2-Dichloroethene	120	ug/L	1.0	0.26	1		10/16/15 01:23	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 01:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:23	95-47-6	
trans-1,2-Dichloroethene	3.8	ug/L	1.0	0.26	1		10/16/15 01:23	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 01:23	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/16/15 01:23	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/16/15 01:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/16/15 01:23	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.25	Std. Units			1		10/09/15 11:55		
Field Specific Conductance	917	umhos/cm			1		10/09/15 11:55		
Turbidity	N	NTU			1		10/09/15 11:55		
Apparent Color	N	no units			1		10/09/15 11:55		
Odor	N	no units			1		10/09/15 11:55		
Temperature, Water (C)	13.3	deg C			1		10/09/15 11:55		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	48.6	mg/L	4.0	2.0	1		10/21/15 18:24	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	384	mg/L	20.0	8.6	1		10/16/15 14:29		

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

Sample: P-423D Lab ID: 40122685006 Collected: 10/09/15 12:30 Received: 10/10/15 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>430000</b>	ug/L	2000	150	1		10/27/15 00:31		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/16/15 01:45	79-00-5	
1,1-Dichloroethane	<b>0.32J</b>	ug/L	1.0	0.24	1		10/16/15 01:45	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/16/15 01:45	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/16/15 01:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/16/15 01:45	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/16/15 01:45	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/16/15 01:45	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/16/15 01:45	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/16/15 01:45	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/16/15 01:45	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/16/15 01:45	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	108-90-7	
Chloroethane	<b>1.3</b>	ug/L	1.0	0.37	1		10/16/15 01:45	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/16/15 01:45	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/16/15 01:45	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/16/15 01:45	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/16/15 01:45	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/16/15 01:45	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/16/15 01:45	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/16/15 01:45	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	108-88-3	
Trichloroethene	<b>0.60J</b>	ug/L	1.0	0.33	1		10/16/15 01:45	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 01:45	75-69-4	
Vinyl chloride	<b>1.1</b>	ug/L	1.0	0.18	1		10/16/15 01:45	75-01-4	
cis-1,2-Dichloroethene	<b>45.5</b>	ug/L	1.0	0.26	1		10/16/15 01:45	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 01:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 01:45	95-47-6	
trans-1,2-Dichloroethene	<b>2.0</b>	ug/L	1.0	0.26	1		10/16/15 01:45	156-60-5	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-423D**      **Lab ID: 40122685006**      Collected: 10/09/15 12:30      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 01:45	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	87	%	70-130		1		10/16/15 01:45	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/16/15 01:45	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/16/15 01:45	2037-26-5	

<b>Field Data</b> Analytical Method:									
Field pH	7.52	Std. Units			1		10/09/15 12:30		
Field Specific Conductance	827	umhos/cm			1		10/09/15 12:30		
Turbidity	N	NTU			1		10/09/15 12:30		
Apparent Color	N	no units			1		10/09/15 12:30		
Odor	N	no units			1		10/09/15 12:30		
Temperature, Water (C)	14.7	deg C			1		10/09/15 12:30		

<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	40.3	mg/L	4.0	2.0	1		10/21/15 14:01	16887-00-6	

<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3, Dissolved	370	mg/L	20.0	8.6	1		10/16/15 14:29		

**Sample: P-426D**      **Lab ID: 40122685007**      Collected: 10/09/15 13:20      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	499000	ug/L	2000	150	1		10/27/15 00:33		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/16/15 02:06	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/16/15 02:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/16/15 02:06	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/16/15 02:06	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/16/15 02:06	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/16/15 02:06	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/16/15 02:06	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/16/15 02:06	78-93-3	
Acetone	18.6J	ug/L	20.0	3.0	1		10/16/15 02:06	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	71-43-2	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

**Sample: P-426D**      **Lab ID: 40122685007**      Collected: 10/09/15 13:20      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/16/15 02:06	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/16/15 02:06	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/16/15 02:06	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/16/15 02:06	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/16/15 02:06	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/16/15 02:06	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/16/15 02:06	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/16/15 02:06	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/16/15 02:06	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/16/15 02:06	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/16/15 02:06	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 02:06	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/16/15 02:06	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 02:06	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 02:06	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:06	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 02:06	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 02:06	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/16/15 02:06	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/16/15 02:06	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/16/15 02:06	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.51	Std. Units			1		10/09/15 13:20		
Field Specific Conductance	977	umhos/cm			1		10/09/15 13:20		
Turbidity	N	NTU			1		10/09/15 13:20		
Apparent Color	N	no units			1		10/09/15 13:20		
Odor	N	no units			1		10/09/15 13:20		
Temperature, Water (C)	13.9	deg C			1		10/09/15 13:20		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	59.6	mg/L	20.0	10.0	5		10/21/15 18:59	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-426D**      **Lab ID: 40122685007**      Collected: 10/09/15 13:20      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>369</b>	mg/L	20.0	8.6	1		10/16/15 14:30		

**Sample: P-422B**      **Lab ID: 40122685008**      Collected: 10/09/15 12:05      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>167000</b>	ug/L	2000	150	1		10/27/15 00:39		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		10/16/15 02:28	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		10/16/15 02:28	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		10/16/15 02:28	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		10/16/15 02:28	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		10/16/15 02:28	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/16/15 02:28	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/16/15 02:28	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/16/15 02:28	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		10/16/15 02:28	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		10/16/15 02:28	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		10/16/15 02:28	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	108-90-7	
Chloroethane	<b>&lt;0.37</b>	ug/L	1.0	0.37	1		10/16/15 02:28	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/16/15 02:28	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		10/16/15 02:28	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		10/16/15 02:28	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		10/16/15 02:28	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		10/16/15 02:28	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		10/16/15 02:28	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/16/15 02:28	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		10/16/15 02:28	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: P-422B**      **Lab ID: 40122685008**      Collected: 10/09/15 12:05      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:28	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/16/15 02:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/16/15 02:28	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/16/15 02:28	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 02:28	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:28	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/16/15 02:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/16/15 02:28	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/16/15 02:28	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/16/15 02:28	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/16/15 02:28	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/16/15 02:28	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/16/15 02:28	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.79	Std. Units			1		10/09/15 12:05		
Field Specific Conductance	467	umhos/cm			1		10/09/15 12:05		
Turbidity	N	NTU			1		10/09/15 12:05		
Apparent Color	N	no units			1		10/09/15 12:05		
Odor	N	no units			1		10/09/15 12:05		
Temperature, Water (C)	13.7	deg C			1		10/09/15 12:05		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	29.0	mg/L	4.0	2.0	1		10/21/15 14:47	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	200	mg/L	20.0	8.6	1		10/16/15 14:31		

**Sample: TRIP BLANK**      **Lab ID: 40122685009**      Collected: 10/09/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/15/15 21:44	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/15/15 21:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/15/15 21:44	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/15/15 21:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/15/15 21:44	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/15/15 21:44	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/15/15 21:44	78-87-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

**Sample: TRIP BLANK**      **Lab ID: 40122685009**      Collected: 10/09/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/15/15 21:44	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/15/15 21:44	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/15/15 21:44	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/15/15 21:44	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/15/15 21:44	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/15/15 21:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/15/15 21:44	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/15/15 21:44	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/15/15 21:44	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/15/15 21:44	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/15/15 21:44	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/15/15 21:44	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/15/15 21:44	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/15/15 21:44	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/15/15 21:44	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/15 21:44	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/15/15 21:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/15/15 21:44	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/15/15 21:44	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/15/15 21:44	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/15/15 21:44	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/15/15 21:44	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/15/15 21:44	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

**Sample: P-401D**      **Lab ID: 40122685010**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>849.20</b>	feet			1		10/02/15 00:00		
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**Sample: P-402E**      **Lab ID: 40122685011**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>849.18</b>	feet			1		10/02/15 00:00		
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**Sample: P-423D**      **Lab ID: 40122685012**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>848.19</b>	feet			1		10/02/15 00:00		
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**Sample: P-424D**      **Lab ID: 40122685013**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>848.80</b>	feet			1		10/02/15 00:00		
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**Sample: P-424 SS**      **Lab ID: 40122685014**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>848.38</b>	feet			1		10/02/15 00:00		
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**Sample: P-426D**      **Lab ID: 40122685015**      Collected: 10/02/15 00:00      Received: 10/10/15 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level	<b>848.20</b>	feet			1		10/02/15 00:00		
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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

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**Sample: MW-1B**                                      **Lab ID: 40122685016**    Collected: 10/02/15 00:00    Received: 10/10/15 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	<b>924.42</b>	feet			1		10/02/15 00:00		
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**Sample: P-422B**                                      **Lab ID: 40122685017**    Collected: 10/02/15 00:00    Received: 10/10/15 08:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**                                      Analytical Method:

Static Water Level	<b>927.04</b>	feet			1		10/02/15 00:00		
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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

QC Batch: ICP/11297 Analysis Method: EPA 6010  
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
 Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

METHOD BLANK: 1237471 Matrix: Water  
 Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	217J	2000	10/26/15 23:35	

LABORATORY CONTROL SAMPLE: 1237472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237473 1237474

Parameter	Units	40122617001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Hardness by 2340B, Dissolved	ug/L	377000			401000	400000				0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

QC Batch: MSV/30651 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008, 40122685009

METHOD BLANK: 1238076 Matrix: Water  
 Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008, 40122685009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/15/15 19:11	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/15/15 19:11	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/15/15 19:11	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/15/15 19:11	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/15/15 19:11	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/15/15 19:11	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/15/15 19:11	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/15/15 19:11	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/15/15 19:11	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/15/15 19:11	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/15/15 19:11	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/15/15 19:11	
Acetone	ug/L	<3.0	20.0	10/15/15 19:11	
Benzene	ug/L	<0.50	1.0	10/15/15 19:11	
Bromodichloromethane	ug/L	<0.50	1.0	10/15/15 19:11	
Bromoform	ug/L	<0.50	1.0	10/15/15 19:11	
Bromomethane	ug/L	<2.4	5.0	10/15/15 19:11	
Carbon disulfide	ug/L	<0.61	5.0	10/15/15 19:11	
Carbon tetrachloride	ug/L	<0.50	1.0	10/15/15 19:11	
Chlorobenzene	ug/L	<0.50	1.0	10/15/15 19:11	
Chloroethane	ug/L	<0.37	1.0	10/15/15 19:11	
Chloroform	ug/L	<2.5	5.0	10/15/15 19:11	
Chloromethane	ug/L	<0.50	1.0	10/15/15 19:11	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/15/15 19:11	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/15/15 19:11	
Dibromochloromethane	ug/L	<0.50	1.0	10/15/15 19:11	
Dibromomethane	ug/L	<0.43	1.0	10/15/15 19:11	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/15/15 19:11	
Ethylbenzene	ug/L	<0.50	1.0	10/15/15 19:11	
m&p-Xylene	ug/L	<1.0	2.0	10/15/15 19:11	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/15/15 19:11	
Methylene Chloride	ug/L	<0.23	1.0	10/15/15 19:11	
Naphthalene	ug/L	<2.5	5.0	10/15/15 19:11	
o-Xylene	ug/L	<0.50	1.0	10/15/15 19:11	
Styrene	ug/L	<0.50	1.0	10/15/15 19:11	
Tetrachloroethene	ug/L	<0.50	1.0	10/15/15 19:11	
Tetrahydrofuran	ug/L	<2.0	5.0	10/15/15 19:11	
Toluene	ug/L	<0.50	1.0	10/15/15 19:11	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/15/15 19:11	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/15/15 19:11	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

METHOD BLANK: 1238076

Matrix: Water

Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008, 40122685009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.33	1.0	10/15/15 19:11	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/15/15 19:11	
Vinyl chloride	ug/L	<0.18	1.0	10/15/15 19:11	
4-Bromofluorobenzene (S)	%	92	70-130	10/15/15 19:11	
Dibromofluoromethane (S)	%	100	70-130	10/15/15 19:11	
Toluene-d8 (S)	%	103	70-130	10/15/15 19:11	

LABORATORY CONTROL SAMPLE: 1238077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	49.2	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.7	83	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	47.1	94	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	45.4	91	70-131	
1,2-Dichloropropane	ug/L	50	45.7	91	70-130	
1,3-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-130	
Benzene	ug/L	50	48.4	97	70-130	
Bromodichloromethane	ug/L	50	45.4	91	70-130	
Bromoform	ug/L	50	43.0	86	68-130	
Bromomethane	ug/L	50	31.0	62	38-137	
Carbon disulfide	ug/L	50	54.5	109	70-154	
Carbon tetrachloride	ug/L	50	50.1	100	70-130	
Chlorobenzene	ug/L	50	47.7	95	70-130	
Chloroethane	ug/L	50	47.9	96	70-136	
Chloroform	ug/L	50	47.7	95	70-130	
Chloromethane	ug/L	50	37.3	75	48-144	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	40.7	81	70-130	
Dibromochloromethane	ug/L	50	46.1	92	70-130	
Dichlorodifluoromethane	ug/L	50	41.3	83	33-157	
Ethylbenzene	ug/L	50	50.1	100	70-132	
m&p-Xylene	ug/L	100	102	102	70-131	
Methyl-tert-butyl ether	ug/L	50	44.9	90	48-141	
Methylene Chloride	ug/L	50	46.9	94	70-130	
o-Xylene	ug/L	50	49.3	99	70-131	
Styrene	ug/L	50	51.3	103	70-130	
Tetrachloroethene	ug/L	50	47.6	95	70-130	
Toluene	ug/L	50	49.7	99	70-130	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

LABORATORY CONTROL SAMPLE: 1238077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	39.2	78	70-130	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	49.6	99	50-150	
Vinyl chloride	ug/L	50	48.0	96	65-142	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1239768 1239769

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40122685001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.1	51.0	102	102	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	49.9	49.3	100	99	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	49.3	49.3	99	99	70-134	0	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	52.3	52.5	105	105	70-139	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.3	43.2	89	86	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.4	49.4	101	99	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.9	49.1	98	98	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	49.2	49.3	98	99	70-132	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.2	49.4	96	99	70-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.0	48.3	96	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.0	49.3	100	99	70-130	1	20	
Benzene	ug/L	<0.50	50	50	50.2	50.5	100	101	70-130	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	47.1	47.7	94	95	70-132	1	20	
Bromoform	ug/L	<0.50	50	50	46.3	44.6	93	89	68-130	4	20	
Bromomethane	ug/L	<2.4	50	50	38.6	33.9	77	68	38-141	13	20	
Carbon disulfide	ug/L	<0.61	50	50	57.0	57.5	114	115	70-155	1	20	
Carbon tetrachloride	ug/L	<0.50	50	50	51.7	52.1	103	104	70-130	1	20	
Chlorobenzene	ug/L	<0.50	50	50	49.8	48.8	100	98	70-130	2	20	
Chloroethane	ug/L	<0.37	50	50	49.6	50.3	99	101	66-152	2	20	
Chloroform	ug/L	<2.5	50	50	50.4	49.9	101	100	70-130	1	20	
Chloromethane	ug/L	0.63J	50	50	43.6	43.4	86	86	44-151	0	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	49.3	49.6	99	99	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	44.3	44.5	89	89	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.4	47.3	97	95	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	43.0	43.8	86	88	29-160	2	20	
Ethylbenzene	ug/L	<0.50	50	50	51.8	51.3	104	103	70-132	1	20	
m&p-Xylene	ug/L	<1.0	100	100	105	105	105	105	70-131	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.1	48.7	98	97	48-143	1	20	
Methylene Chloride	ug/L	<0.23	50	50	50.3	50.4	101	101	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	51.3	50.8	103	102	70-131	1	20	
Styrene	ug/L	<0.50	50	50	53.8	52.7	108	105	70-130	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1239768		1239769		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40122685001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Tetrachloroethene	ug/L	<0.50	50	50	49.2	48.0	98	96	70-130	3	20		
Toluene	ug/L	<0.50	50	50	51.0	50.2	102	100	70-130	2	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	50.9	51.9	102	104	70-132	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.4	43.6	91	87	70-130	4	20		
Trichloroethene	ug/L	<0.33	50	50	49.5	49.8	99	100	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	52.2	53.1	104	106	50-153	2	20		
Vinyl chloride	ug/L	1.3	50	50	51.1	51.3	100	100	60-155	0	20		
4-Bromofluorobenzene (S)	%						102	99	70-130				
Dibromofluoromethane (S)	%						102	101	70-130				
Toluene-d8 (S)	%						102	100	70-130				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

QC Batch:	WETA/30792	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
Associated Lab Samples:	40122685001		

METHOD BLANK: 1241863 Matrix: Water  
Associated Lab Samples: 40122685001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/21/15 12:33	

LABORATORY CONTROL SAMPLE: 1241864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241865 1241866

Parameter	Units	40122617009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	99.7	100	100	199	199	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241867 1241868

Parameter	Units	40122685001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	64.4	100	100	162	163	98	99	90-110	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

QC Batch: WETA/30794 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
 Associated Lab Samples: 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

METHOD BLANK: 1241995 Matrix: Water  
 Associated Lab Samples: 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	10/21/15 12:28	

LABORATORY CONTROL SAMPLE: 1241996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241997 1241998

Parameter	Units	40122685002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	64.5	100	100	161	160	97	95	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241999 1242000

Parameter	Units	40122765013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	348	400	400	738	732	98	96	90-110	1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

QC Batch: WETA/30757 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

METHOD BLANK: 1240533 Matrix: Water  
Associated Lab Samples: 40122685001, 40122685002, 40122685003, 40122685004, 40122685005, 40122685006, 40122685007, 40122685008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/16/15 13:33	

LABORATORY CONTROL SAMPLE: 1240534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	92.4	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240535 1240536

Parameter	Units	40122829002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	27.7	100	100	130	126	103	99	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240537 1240538

Parameter	Units	40122833008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	83.8	100	100	188	191	105	107	90-110	1	20	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: LGRL INVESTIGATION WELLS 10/15  
Pace Project No.: 40122685

---

### 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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40122685001	MW-1B	EPA 6010	ICP/11297		
40122685002	P-402E	EPA 6010	ICP/11297		
40122685003	P-401D	EPA 6010	ICP/11297		
40122685004	P-424SS	EPA 6010	ICP/11297		
40122685005	P-424D	EPA 6010	ICP/11297		
40122685006	P-423D	EPA 6010	ICP/11297		
40122685007	P-426D	EPA 6010	ICP/11297		
40122685008	P-422B	EPA 6010	ICP/11297		
40122685001	MW-1B	EPA 8260	MSV/30651		
40122685002	P-402E	EPA 8260	MSV/30651		
40122685003	P-401D	EPA 8260	MSV/30651		
40122685004	P-424SS	EPA 8260	MSV/30651		
40122685005	P-424D	EPA 8260	MSV/30651		
40122685006	P-423D	EPA 8260	MSV/30651		
40122685007	P-426D	EPA 8260	MSV/30651		
40122685008	P-422B	EPA 8260	MSV/30651		
40122685009	TRIP BLANK	EPA 8260	MSV/30651		
40122685001	MW-1B		PM/		
40122685002	P-402E		PM/		
40122685003	P-401D		PM/		
40122685004	P-424SS		PM/		
40122685005	P-424D		PM/		
40122685006	P-423D		PM/		
40122685007	P-426D		PM/		
40122685008	P-422B		PM/		
40122685010	P-401D		PM/		
40122685011	P-402E		PM/		
40122685012	P-423D		PM/		
40122685013	P-424D		PM/		
40122685014	P-424 SS		PM/		
40122685015	P-426D		PM/		
40122685016	MW-1B		PM/		
40122685017	P-422B		PM/		
40122685001	MW-1B	EPA 300.0	WETA/30792		
40122685002	P-402E	EPA 300.0	WETA/30794		
40122685003	P-401D	EPA 300.0	WETA/30794		
40122685004	P-424SS	EPA 300.0	WETA/30794		
40122685005	P-424D	EPA 300.0	WETA/30794		
40122685006	P-423D	EPA 300.0	WETA/30794		
40122685007	P-426D	EPA 300.0	WETA/30794		
40122685008	P-422B	EPA 300.0	WETA/30794		
40122685001	MW-1B	EPA 310.2	WETA/30757		
40122685002	P-402E	EPA 310.2	WETA/30757		
40122685003	P-401D	EPA 310.2	WETA/30757		
40122685004	P-424SS	EPA 310.2	WETA/30757		
40122685005	P-424D	EPA 310.2	WETA/30757		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS 10/15

Pace Project No.: 40122685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40122685006	P-423D	EPA 310.2	WETA/30757		
40122685007	P-426D	EPA 310.2	WETA/30757		
40122685008	P-422B	EPA 310.2	WETA/30757		

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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.

4022685

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
ADS Glacier Ridge		Report To: Same		Attention: Same	
N7296 Hwy V		Copy To: Frank Pengini - ESC, Mari Bull - SCS Eng. Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGRL Investigation Wells		Pace Quote Reference:	
Phone:		Project Number:		Pace Project Manager: Cindy Variga	
Requested Due Date/TAT:		Valid Matrix Codes		Project Profile #: 3707	

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / .)	Section E Matrix Code	Section F Sample Type	Section G G-RAB C-COMP	Section H COLLECTED		Section I # OF CONTAINERS	Section J Preservatives	Section K Filtered (Y/N)	Section L Requested	Section M Ani	Section N 8260 NR 507 VOCs class chlord. alkalinity class 8020 - hard as	Section O Residual Chrome (Y/N)	Section P Pace Project Number Lab ID.
					DATE	TIME								
1	001 MW-1B	DW	GN 6	6	10/9	0900	5	Nitric	N	X	X			
2	002 P-403AE	WW				0905	5	HCL	Y	X	X			2-250ml/103-40ml/3
3	003 P-401D	WW				0940	5	Unpreserved	Y	X	X			
4	004 P-42455	SL				1235	5		Y	X	X			
5	005 P-4340	SL				1155	5		Y	X	X			
6	006 P-423D	SL				1230	5		Y	X	X			
7	007 P-426D	SL				1300	5		Y	X	X			
8	008 P-422B	SL				1205	5		Y	X	X			
9	009 Trip Blank	OT					2		Y	X	X			2-40ml/3

**Additional Comments:**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	10/9	1700	<i>[Signature]</i>	10/10/15	0840	Temp in °C Received on ice Custody Sealed Cooler Samples Intact
<i>[Signature]</i>	10/9	1500	<i>[Signature]</i>	10/10/15	0840	
<i>[Signature]</i>	10/10/15	0840	<i>[Signature]</i>	10/10/15	0840	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *[Signature]*  
 SIGNATURE of SAMPLER: *[Signature]*

# Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302



Project #: \_\_\_\_\_

WO#: 40122685



Client Name: ADS

Courier:  Fed Ex  UPS  Client  Pace Other: Dunham

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: SRSS    Type of Ice:  Wet  Blue Dry None     Samples on ice, cooling process has begun

Cooler Temperature    Uncorr: 3    ICorr: 3    Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no     no

Person examining contents:

Date: 10/10/15  
Initials: EM

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°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 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
exceptions: <u>VOA</u> , coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics,    OTHER: _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>EM</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: CM

Date: 10/12/15

May 19, 2016

General Manager  
Advanced Disposal Glacier Ridge Landfill LLC  
N7296 Hwy V  
Horicon, WI 53032

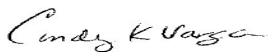
RE: Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between April 07, 2016 and May 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Cindy Varga  
cindy.varga@pacelabs.com  
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Frank Perugini, ESC (Environmental Sampling Corp)  
Kari Rabideau, Advanced Disposal Hickory Meadows  
Landfill, LLC  
ESC Staff, ESC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
525 N 8th Street, Salina, KS 67401  
A2LA Certification #: 2926.01  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Alabama Certification #40770  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: 8TMS-L  
Florida/NELAP Certification #: E87605  
Guam Certification #:14-008r  
Georgia Certification #: 959  
Georgia EPD #: Pace  
Idaho Certification #: MN00064  
Hawaii Certification #MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Kentucky Dept of Envi. Protection - WW #:90062  
Louisiana DEQ Certification #: 3086  
Louisiana DHH #: LA140001  
Maine Certification #: 2013011  
Maryland Certification #: 322  
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT0092  
Nevada Certification #: MN\_00064  
Nebraska Certification #: Pace  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Carolina State Public Health #: 27700  
North Dakota Certification #: R-036  
Ohio EPA #: 4150  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Saipan (CNMI) #:MP0003  
South Carolina #:74003001  
Texas Certification #: T104704192  
Tennessee Certification #: 02818  
Utah Certification #: MN000642013-4  
Virginia DGS Certification #: 251  
Virginia/VELAP Certification #: Pace  
Washington Certification #: C486  
West Virginia Certification #: 382  
West Virginia DHHR #:9952C  
Wisconsin Certification #: 999407970

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
Virginia VELAP ID: 460263  
North Dakota Certification #: R-150

South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
US Dept of Agriculture #: S-76505  
Virginia VELAP Certification ID: 460263  
Virginia VELAP ID: 460263  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40130361003	MW-1B	Water	04/06/16 14:45	04/07/16 07:30
40130440001	P-401D	Water	04/07/16 11:30	04/08/16 08:45
40130440002	P-402E	Water	04/07/16 11:00	04/08/16 08:45
40130440003	P-422B	Water	04/07/16 10:45	04/08/16 08:45
40130440004	TRIP BLANK	Water	04/07/16 00:00	04/08/16 08:45
40130567001	P-423D	Water	04/08/16 09:25	04/09/16 09:12
40130567002	P-424D	Water	04/08/16 10:40	04/09/16 09:12
40130567003	P-424SS	Water	04/08/16 12:00	04/09/16 09:12
40130567004	P-426D	Water	04/08/16 10:00	04/09/16 09:12
40130567005	TRIP BLANK	Water	04/08/16 00:00	04/09/16 09:12
40130361042	P-401D	Water	04/04/16 00:00	05/09/16 14:51
40130361043	P-402E	Water	04/04/16 00:00	05/09/16 14:51
40130361044	P-422B	Water	04/04/16 00:00	05/09/16 14:51
40130361045	P-423D	Water	04/04/16 00:00	05/09/16 14:51
40130361046	P-424D	Water	04/04/16 00:00	05/09/16 14:51
40130361047	P-424SS	Water	04/04/16 00:00	05/09/16 14:51
40130361048	P-426D	Water	04/04/16 00:00	05/09/16 14:51
40130361049	MW-1B	Water	04/04/16 00:00	05/09/16 14:51

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130361003	MW-1B	EPA 6020A	TT3	1	PASI-M
		EPA 8260	SMT	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
40130440001	P-401D	EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
40130440002	P-402E	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
40130440003	P-422B		AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
40130440004	TRIP BLANK	EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40130567001	P-423D	EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40130567002	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
40130567003	P-424SS	EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
40130567004	P-426D	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G

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### SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	HNW	46	PASI-G
			AMH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40130567005	TRIP BLANK	EPA 8260	HNW	46	PASI-G
40130361042	P-401D		AMH	1	PASI-G
40130361043	P-402E		AMH	1	PASI-G
40130361044	P-422B		AMH	1	PASI-G
40130361045	P-423D		AMH	1	PASI-G
40130361046	P-424D		AMH	1	PASI-G
40130361047	P-424SS		AMH	1	PASI-G
40130361048	P-426D		AMH	1	PASI-G
40130361049	MW-1B		AMH	1	PASI-G

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: MW-1B**      **Lab ID: 40130361003**      Collected: 04/06/16 14:45      Received: 04/07/16 07:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Total Hardness by 2340B, Dissolved	<b>303000</b>	ug/L	2360	326	10	04/11/16 22:31	04/13/16 10:35		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/08/16 14:03	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/08/16 14:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/08/16 14:03	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/08/16 14:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/08/16 14:03	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/08/16 14:03	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/08/16 14:03	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/08/16 14:03	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/08/16 14:03	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/08/16 14:03	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/08/16 14:03	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/08/16 14:03	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/08/16 14:03	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/08/16 14:03	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/08/16 14:03	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/08/16 14:03	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/08/16 14:03	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/08/16 14:03	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/08/16 14:03	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/08/16 14:03	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/08/16 14:03	75-69-4	
Vinyl chloride	2.5	ug/L	1.0	0.18	1		04/08/16 14:03	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/16 14:03	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/08/16 14:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/08/16 14:03	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/16 14:03	156-60-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: MW-1B**      **Lab ID: 40130361003**      Collected: 04/06/16 14:45      Received: 04/07/16 07:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/08/16 14:03	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/08/16 14:03	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/08/16 14:03	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/08/16 14:03	2037-26-5	
<b>Field Data</b>		Analytical Method:							
Field pH	<b>7.38</b>	Std. Units			1		04/06/16 14:45		
Field Specific Conductance	<b>743</b>	umhos/cm			1		04/06/16 14:45		
Turbidity	<b>N</b>	NTU			1		04/06/16 14:45		
Apparent Color	<b>N</b>	no units			1		04/06/16 14:45		
Odor	<b>N</b>	no units			1		04/06/16 14:45		
Temperature, Water (C)	<b>9.9</b>	deg C			1		04/06/16 14:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	<b>97.9</b>	mg/L	20.0	10.0	5		04/18/16 20:23	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>203</b>	mg/L	20.0	8.6	1		04/15/16 12:46		

**Sample: P-401D**      **Lab ID: 40130440001**      Collected: 04/07/16 11:30      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>273000</b>	ug/L	2000	150	1		04/12/16 16:31		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/12/16 10:43	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/12/16 10:43	79-00-5	
1,1-Dichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/12/16 10:43	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/12/16 10:43	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/12/16 10:43	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/12/16 10:43	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/12/16 10:43	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/12/16 10:43	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/12/16 10:43	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/12/16 10:43	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/12/16 10:43	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/12/16 10:43	78-93-3	
Acetone	<b>3.0J</b>	ug/L	20.0	3.0	1		04/12/16 10:43	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/12/16 10:43	71-43-2	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-401D**      **Lab ID: 40130440001**      Collected: 04/07/16 11:30      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/12/16 10:43	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/12/16 10:43	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/12/16 10:43	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/12/16 10:43	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/12/16 10:43	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/12/16 10:43	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/12/16 10:43	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/12/16 10:43	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/12/16 10:43	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/12/16 10:43	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/12/16 10:43	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/12/16 10:43	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/12/16 10:43	75-01-4	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.26	1		04/12/16 10:43	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/12/16 10:43	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/12/16 10:43	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 10:43	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/12/16 10:43	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/12/16 10:43	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/12/16 10:43	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/12/16 10:43	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	6.85	Std. Units			1		04/07/16 11:30		
Field Specific Conductance	752	umhos/cm			1		04/07/16 11:30		
Turbidity	N	NTU			1		04/07/16 11:30		
Apparent Color	N	no units			1		04/07/16 11:30		
Odor	N	no units			1		04/07/16 11:30		
Temperature, Water (C)	11.7	deg C			1		04/07/16 11:30		
<b>300.0 IC Anions 28 Days, Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	12.5	mg/L	4.0	2.0	1		04/18/16 13:16	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-401D**      **Lab ID: 40130440001**      Collected: 04/07/16 11:30      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>344</b>	mg/L	20.0	8.6	1		04/15/16 13:07		

**Sample: P-402E**      **Lab ID: 40130440002**      Collected: 04/07/16 11:00      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>450000</b>	ug/L	2000	150	1		04/12/16 16:33		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		04/12/16 09:35	79-00-5	
1,1-Dichloroethane	<b>1.1J</b>	ug/L	2.5	0.60	2.5		04/12/16 09:35	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		04/12/16 09:35	75-35-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		04/12/16 09:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		04/12/16 09:35	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	95-50-1	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		04/12/16 09:35	107-06-2	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		04/12/16 09:35	78-87-5	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	106-46-7	
2-Butanone (MEK)	<7.4	ug/L	50.0	7.4	2.5		04/12/16 09:35	78-93-3	
Acetone	<7.4	ug/L	50.0	7.4	2.5		04/12/16 09:35	67-64-1	
Benzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	71-43-2	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		04/12/16 09:35	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		04/12/16 09:35	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	108-90-7	
Chloroethane	<b>7.9</b>	ug/L	2.5	0.94	2.5		04/12/16 09:35	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		04/12/16 09:35	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		04/12/16 09:35	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		04/12/16 09:35	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		04/12/16 09:35	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		04/12/16 09:35	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		04/12/16 09:35	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		04/12/16 09:35	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-402E**      **Lab ID: 40130440002**      Collected: 04/07/16 11:00      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	108-88-3	
Trichloroethene	4.4	ug/L	2.5	0.83	2.5		04/12/16 09:35	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		04/12/16 09:35	75-69-4	
Vinyl chloride	28.8	ug/L	2.5	0.44	2.5		04/12/16 09:35	75-01-4	
cis-1,2-Dichloroethene	315	ug/L	2.5	0.64	2.5		04/12/16 09:35	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		04/12/16 09:35	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		04/12/16 09:35	95-47-6	
trans-1,2-Dichloroethene	20.3	ug/L	2.5	0.64	2.5		04/12/16 09:35	156-60-5	
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		04/12/16 09:35	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		2.5		04/12/16 09:35	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2.5		04/12/16 09:35	1868-53-7	
Toluene-d8 (S)	95	%	70-130		2.5		04/12/16 09:35	2037-26-5	

<b>Field Data</b> Analytical Method:									
Field pH	6.90	Std. Units			1		04/07/16 11:00		
Field Specific Conductance	949	umhos/cm			1		04/07/16 11:00		
Turbidity	N	NTU			1		04/07/16 11:00		
Apparent Color	N	no units			1		04/07/16 11:00		
Odor	N	no units			1		04/07/16 11:00		
Temperature, Water (C)	9.3	deg C			1		04/07/16 11:00		

<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	63.5	mg/L	20.0	10.0	5		04/18/16 13:27	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	364	mg/L	40.0	17.3	2		04/15/16 13:07		

**Sample: P-422B**      **Lab ID: 40130440003**      Collected: 04/07/16 10:45      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	164000	ug/L	2000	150	1		04/12/16 16:35		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/12/16 11:05	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/12/16 11:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/12/16 11:05	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/12/16 11:05	96-12-8	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-422B**      **Lab ID: 40130440003**      Collected: 04/07/16 10:45      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/12/16 11:05	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/12/16 11:05	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/12/16 11:05	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/12/16 11:05	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/12/16 11:05	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/12/16 11:05	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/12/16 11:05	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/12/16 11:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/12/16 11:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/12/16 11:05	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/12/16 11:05	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/12/16 11:05	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/12/16 11:05	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/12/16 11:05	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/12/16 11:05	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/12/16 11:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/12/16 11:05	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/12/16 11:05	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 11:05	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/12/16 11:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/12/16 11:05	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 11:05	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/12/16 11:05	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/12/16 11:05	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		04/12/16 11:05	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/12/16 11:05	2037-26-5	

**Field Data**

Analytical Method:

Field pH	7.22	Std. Units			1		04/07/16 10:45		
Field Specific Conductance	467	umhos/cm			1		04/07/16 10:45		

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-422B**      **Lab ID: 40130440003**      Collected: 04/07/16 10:45      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Turbidity	N	NTU			1		04/07/16 10:45		
Apparent Color	N	no units			1		04/07/16 10:45		
Odor	N	no units			1		04/07/16 10:45		
Temperature, Water (C)	9.6	deg C			1		04/07/16 10:45		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	19.7	mg/L	4.0	2.0	1		04/18/16 13:38	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	194	mg/L	20.0	8.6	1		04/15/16 13:08		

**Sample: TRIP BLANK**      **Lab ID: 40130440004**      Collected: 04/07/16 00:00      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/12/16 13:42	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/12/16 13:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/12/16 13:42	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/12/16 13:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/12/16 13:42	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/12/16 13:42	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/12/16 13:42	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/12/16 13:42	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/12/16 13:42	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/12/16 13:42	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/12/16 13:42	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/12/16 13:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/12/16 13:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/12/16 13:42	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/12/16 13:42	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	100-41-4	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: TRIP BLANK**      **Lab ID: 40130440004**      Collected: 04/07/16 00:00      Received: 04/08/16 08:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/12/16 13:42	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/12/16 13:42	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/12/16 13:42	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/12/16 13:42	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/12/16 13:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/12/16 13:42	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/12/16 13:42	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 13:42	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/12/16 13:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/12/16 13:42	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 13:42	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/12/16 13:42	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/12/16 13:42	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		04/12/16 13:42	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/12/16 13:42	2037-26-5	

**Sample: P-423D**      **Lab ID: 40130567001**      Collected: 04/08/16 09:25      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	432000	ug/L	2000	150	1		04/14/16 15:55		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/13/16 08:20	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/13/16 08:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/13/16 08:20	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/13/16 08:20	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/13/16 08:20	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/13/16 08:20	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/13/16 08:20	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/13/16 08:20	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/13/16 08:20	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	71-43-2	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-423D**      **Lab ID: 40130567001**      Collected: 04/08/16 09:25      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/13/16 08:20	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/13/16 08:20	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	108-90-7	
Chloroethane	0.62J	ug/L	1.0	0.37	1		04/13/16 08:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/13/16 08:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/13/16 08:20	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/13/16 08:20	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/13/16 08:20	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/13/16 08:20	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/13/16 08:20	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/13/16 08:20	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	108-88-3	
Trichloroethene	0.47J	ug/L	1.0	0.33	1		04/13/16 08:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/16 08:20	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/13/16 08:20	75-01-4	
cis-1,2-Dichloroethene	29.7	ug/L	1.0	0.26	1		04/13/16 08:20	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/16 08:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:20	95-47-6	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.26	1		04/13/16 08:20	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/16 08:20	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/13/16 08:20	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/13/16 08:20	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/13/16 08:20	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.24	Std. Units			1		04/08/16 09:25		
Field Specific Conductance	962	umhos/cm			1		04/08/16 09:25		
Turbidity	N	NTU			1		04/08/16 09:25		
Apparent Color	N	no units			1		04/08/16 09:25		
Odor	N	no units			1		04/08/16 09:25		
Temperature, Water (C)	11.7	deg C			1		04/08/16 09:25		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	37.5	mg/L	4.0	2.0	1		04/22/16 16:29	16887-00-6	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-423D**      **Lab ID: 40130567001**      Collected: 04/08/16 09:25      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>355</b>	mg/L	20.0	8.6	1		04/15/16 13:37		

**Sample: P-424D**      **Lab ID: 40130567002**      Collected: 04/08/16 10:40      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	<b>432000</b>	ug/L	2000	150	1		04/14/16 15:57		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.20</b>	ug/L	1.0	0.20	1		04/13/16 08:43	79-00-5	
1,1-Dichloroethane	<b>0.82J</b>	ug/L	1.0	0.24	1		04/13/16 08:43	75-34-3	
1,1-Dichloroethene	<b>&lt;0.41</b>	ug/L	1.0	0.41	1		04/13/16 08:43	75-35-4	
1,2-Dibromo-3-chloropropane	<b>&lt;2.2</b>	ug/L	5.0	2.2	1		04/13/16 08:43	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.18</b>	ug/L	1.0	0.18	1		04/13/16 08:43	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	95-50-1	
1,2-Dichloroethane	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/13/16 08:43	107-06-2	
1,2-Dichloropropane	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/13/16 08:43	78-87-5	
1,3-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	541-73-1	
1,4-Dichlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	106-46-7	
2-Butanone (MEK)	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/13/16 08:43	78-93-3	
Acetone	<b>&lt;3.0</b>	ug/L	20.0	3.0	1		04/13/16 08:43	67-64-1	
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	71-43-2	
Bromodichloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	75-27-4	
Bromoform	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	75-25-2	
Bromomethane	<b>&lt;2.4</b>	ug/L	5.0	2.4	1		04/13/16 08:43	74-83-9	
Carbon disulfide	<b>&lt;0.61</b>	ug/L	5.0	0.61	1		04/13/16 08:43	75-15-0	
Carbon tetrachloride	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	56-23-5	
Chlorobenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	108-90-7	
Chloroethane	<b>2.9</b>	ug/L	1.0	0.37	1		04/13/16 08:43	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/13/16 08:43	67-66-3	
Chloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	74-87-3	
Dibromochloromethane	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	124-48-1	
Dibromomethane	<b>&lt;0.43</b>	ug/L	1.0	0.43	1		04/13/16 08:43	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		04/13/16 08:43	75-71-8	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	100-41-4	
Methyl-tert-butyl ether	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		04/13/16 08:43	1634-04-4	
Methylene Chloride	<b>&lt;0.23</b>	ug/L	1.0	0.23	1		04/13/16 08:43	75-09-2	
Naphthalene	<b>&lt;2.5</b>	ug/L	5.0	2.5	1		04/13/16 08:43	91-20-3	
Styrene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	100-42-5	
Tetrachloroethene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/13/16 08:43	127-18-4	
Tetrahydrofuran	<b>&lt;2.0</b>	ug/L	5.0	2.0	1		04/13/16 08:43	109-99-9	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-424D**      **Lab ID: 40130567002**      Collected: 04/08/16 10:40      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:43	108-88-3	
Trichloroethene	2.3	ug/L	1.0	0.33	1		04/13/16 08:43	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/16 08:43	75-69-4	
Vinyl chloride	5.3	ug/L	1.0	0.18	1		04/13/16 08:43	75-01-4	
cis-1,2-Dichloroethene	111	ug/L	1.0	0.26	1		04/13/16 08:43	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:43	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/16 08:43	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/16 08:43	95-47-6	
trans-1,2-Dichloroethene	3.4	ug/L	1.0	0.26	1		04/13/16 08:43	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/16 08:43	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/13/16 08:43	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		04/13/16 08:43	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/13/16 08:43	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.41	Std. Units			1		04/08/16 10:40		
Field Specific Conductance	856	umhos/cm			1		04/08/16 10:40		
Turbidity	N	NTU			1		04/08/16 10:40		
Apparent Color	N	no units			1		04/08/16 10:40		
Odor	N	no units			1		04/08/16 10:40		
Temperature, Water (C)	12.9	deg C			1		04/08/16 10:40		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	40.7	mg/L	4.0	2.0	1		04/22/16 16:40	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	369	mg/L	20.0	8.6	1		04/15/16 13:37		

**Sample: P-424SS**      **Lab ID: 40130567003**      Collected: 04/08/16 12:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	293000	ug/L	2000	150	1		04/14/16 16:00		
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/13/16 09:05	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/13/16 09:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/13/16 09:05	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/13/16 09:05	96-12-8	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-424SS**      **Lab ID: 40130567003**      Collected: 04/08/16 12:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/13/16 09:05	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/13/16 09:05	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/13/16 09:05	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/13/16 09:05	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/13/16 09:05	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/13/16 09:05	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/13/16 09:05	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/13/16 09:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/13/16 09:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/13/16 09:05	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/13/16 09:05	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/13/16 09:05	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/13/16 09:05	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/13/16 09:05	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/13/16 09:05	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/13/16 09:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/16 09:05	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/13/16 09:05	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/16 09:05	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/16 09:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:05	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/16 09:05	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/16 09:05	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/13/16 09:05	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		04/13/16 09:05	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		04/13/16 09:05	2037-26-5	

**Field Data**

Analytical Method:

Field pH	<b>7.59</b>	Std. Units			1		04/08/16 12:00
Field Specific Conductance	<b>567</b>	umhos/cm			1		04/08/16 12:00

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-424SS**      **Lab ID: 40130567003**      Collected: 04/08/16 12:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method:							
Turbidity	N	NTU			1		04/08/16 12:00		
Apparent Color	N	no units			1		04/08/16 12:00		
Odor	N	no units			1		04/08/16 12:00		
Temperature, Water (C)	12.6	deg C			1		04/08/16 12:00		
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Chloride, Dissolved	2.7J	mg/L	4.0	2.0	1		04/22/16 16:51	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	309	mg/L	20.0	8.6	1		04/15/16 13:38		

**Sample: P-426D**      **Lab ID: 40130567004**      Collected: 04/08/16 10:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	408000	ug/L	2000	150	1		04/14/16 16:02		
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/13/16 09:28	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/13/16 09:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/13/16 09:28	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/13/16 09:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/13/16 09:28	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/13/16 09:28	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/13/16 09:28	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/13/16 09:28	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/13/16 09:28	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/13/16 09:28	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/13/16 09:28	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/13/16 09:28	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/13/16 09:28	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	74-87-3	

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: P-426D**      **Lab ID: 40130567004**      Collected: 04/08/16 10:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/13/16 09:28	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/13/16 09:28	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/13/16 09:28	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/13/16 09:28	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/13/16 09:28	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/13/16 09:28	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/13/16 09:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/16 09:28	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/13/16 09:28	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/16 09:28	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/16 09:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/16 09:28	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/16 09:28	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/16 09:28	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/13/16 09:28	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/13/16 09:28	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/13/16 09:28	2037-26-5	
<b>Field Data</b> Analytical Method:									
Field pH	7.37	Std. Units			1		04/08/16 10:00		
Field Specific Conductance	846	umhos/cm			1		04/08/16 10:00		
Turbidity	N	NTU			1		04/08/16 10:00		
Apparent Color	N	no units			1		04/08/16 10:00		
Odor	N	no units			1		04/08/16 10:00		
Temperature, Water (C)	12.3	deg C			1		04/08/16 10:00		
<b>300.0 IC Anions 28 Days,Diss</b> Analytical Method: EPA 300.0									
Chloride, Dissolved	27.7	mg/L	4.0	2.0	1		04/22/16 00:47	16887-00-6	
<b>310.2 Alkalinity, Dissolved</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	331	mg/L	20.0	8.6	1		04/15/16 13:39		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: TRIP BLANK**      **Lab ID: 40130567005**      Collected: 04/08/16 00:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/12/16 16:55	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/12/16 16:55	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/12/16 16:55	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/12/16 16:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/12/16 16:55	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/12/16 16:55	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/12/16 16:55	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/12/16 16:55	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/12/16 16:55	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/12/16 16:55	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/12/16 16:55	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/12/16 16:55	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/12/16 16:55	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/12/16 16:55	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/12/16 16:55	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/12/16 16:55	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/12/16 16:55	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/12/16 16:55	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/12/16 16:55	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/12/16 16:55	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/12/16 16:55	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/12/16 16:55	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 16:55	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/12/16 16:55	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/12/16 16:55	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/16 16:55	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/12/16 16:55	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/12/16 16:55	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/12/16 16:55	1868-53-7	

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### ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

**Sample: TRIP BLANK**      **Lab ID: 40130567005**      Collected: 04/08/16 00:00      Received: 04/09/16 09:12      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**8260 MSV**      Analytical Method: EPA 8260

**Surrogates**  
Toluene-d8 (S)      94      %      70-130      1      04/12/16 16:55      2037-26-5

**Sample: P-401D**      **Lab ID: 40130361042**      Collected: 04/04/16 00:00      Received: 05/09/16 14:51      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level      **854.38**      feet      1      04/04/16 00:00

**Sample: P-402E**      **Lab ID: 40130361043**      Collected: 04/04/16 00:00      Received: 05/09/16 14:51      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level      **854.32**      feet      1      04/04/16 00:00

**Sample: P-422B**      **Lab ID: 40130361044**      Collected: 04/04/16 00:00      Received: 05/09/16 14:51      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level      **928.59**      feet      1      04/04/16 00:00

**Sample: P-423D**      **Lab ID: 40130361045**      Collected: 04/04/16 00:00      Received: 05/09/16 14:51      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level      **853.34**      feet      1      04/04/16 00:00

**Sample: P-424D**      **Lab ID: 40130361046**      Collected: 04/04/16 00:00      Received: 05/09/16 14:51      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**      Analytical Method:

Static Water Level      **853.70**      feet      1      04/04/16 00:00

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## ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

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<b>Sample: P-424SS</b>	<b>Lab ID: 40130361047</b>	Collected: 04/04/16 00:00	Received: 05/09/16 14:51	Matrix: Water
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>852.48</b>	feet			1		04/04/16 00:00		

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<b>Sample: P-426D</b>	<b>Lab ID: 40130361048</b>	Collected: 04/04/16 00:00	Received: 05/09/16 14:51	Matrix: Water
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>853.30</b>	feet			1		04/04/16 00:00		

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<b>Sample: MW-1B</b>	<b>Lab ID: 40130361049</b>	Collected: 04/04/16 00:00	Received: 05/09/16 14:51	Matrix: Water
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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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<b>Field Data</b>	Analytical Method:								
Static Water Level	<b>926.62</b>	feet			1		04/04/16 00:00		

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: ICP/12072

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40130440001, 40130440002, 40130440003

METHOD BLANK: 1318636

Matrix: Water

Associated Lab Samples: 40130440001, 40130440002, 40130440003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/12/16 16:09	

LABORATORY CONTROL SAMPLE: 1318637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		31500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318638 1318639

Parameter	Units	40130415006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Total Hardness by 2340B, Dissolved	ug/L	342000			367000	364000				1	20	

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.

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

QC Batch: ICP/12078 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

METHOD BLANK: 1319426 Matrix: Water  
Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	244J	2000	04/14/16 14:59	

METHOD BLANK: 1319430 Matrix: Water  
Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	194J	2000	04/14/16 15:43	

LABORATORY CONTROL SAMPLE: 1319427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32300			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319428 1319429

Parameter	Units	40130536006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Total Hardness by 2340B, Dissolved	ug/L	265000			291000	291000					0	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch:	MPRP/62514	Analysis Method:	EPA 6020A
QC Batch Method:	EPA 3020	Analysis Description:	6020A Water Dissolved UPD4
Associated Lab Samples:	40130361003		

METHOD BLANK: 2228333 Matrix: Water  
Associated Lab Samples: 40130361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.091	0.38	04/13/16 09:15	

LABORATORY CONTROL SAMPLE: 2228334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	72.3	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2228335 2228336

Parameter	Units	2228335		2228336		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40130361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	1.3	80	80	73.7	74.6	91	92	75-125	1	20

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch:	MSV/32929	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40130361003		

METHOD BLANK: 1316798 Matrix: Water

Associated Lab Samples: 40130361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/08/16 09:36	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/08/16 09:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/08/16 09:36	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/08/16 09:36	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/08/16 09:36	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/08/16 09:36	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/08/16 09:36	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/08/16 09:36	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/08/16 09:36	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/08/16 09:36	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/08/16 09:36	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/08/16 09:36	
Acetone	ug/L	<3.0	20.0	04/08/16 09:36	
Benzene	ug/L	<0.50	1.0	04/08/16 09:36	
Bromodichloromethane	ug/L	<0.50	1.0	04/08/16 09:36	
Bromoform	ug/L	<0.50	1.0	04/08/16 09:36	
Bromomethane	ug/L	<2.4	5.0	04/08/16 09:36	
Carbon disulfide	ug/L	<0.61	5.0	04/08/16 09:36	
Carbon tetrachloride	ug/L	<0.50	1.0	04/08/16 09:36	
Chlorobenzene	ug/L	<0.50	1.0	04/08/16 09:36	
Chloroethane	ug/L	<0.37	1.0	04/08/16 09:36	
Chloroform	ug/L	<2.5	5.0	04/08/16 09:36	
Chloromethane	ug/L	<0.50	1.0	04/08/16 09:36	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/08/16 09:36	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/08/16 09:36	
Dibromochloromethane	ug/L	<0.50	1.0	04/08/16 09:36	
Dibromomethane	ug/L	<0.43	1.0	04/08/16 09:36	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/08/16 09:36	
Ethylbenzene	ug/L	<0.50	1.0	04/08/16 09:36	
m&p-Xylene	ug/L	<1.0	2.0	04/08/16 09:36	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/08/16 09:36	
Methylene Chloride	ug/L	<0.23	1.0	04/08/16 09:36	
Naphthalene	ug/L	<2.5	5.0	04/08/16 09:36	
o-Xylene	ug/L	<0.50	1.0	04/08/16 09:36	
Styrene	ug/L	<0.50	1.0	04/08/16 09:36	
Tetrachloroethene	ug/L	<0.50	1.0	04/08/16 09:36	
Tetrahydrofuran	ug/L	<2.0	5.0	04/08/16 09:36	
Toluene	ug/L	<0.50	1.0	04/08/16 09:36	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/08/16 09:36	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/08/16 09:36	
Trichloroethene	ug/L	<0.33	1.0	04/08/16 09:36	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

METHOD BLANK: 1316798 Matrix: Water  
Associated Lab Samples: 40130361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/08/16 09:36	
Vinyl chloride	ug/L	<0.18	1.0	04/08/16 09:36	
4-Bromofluorobenzene (S)	%	94	70-130	04/08/16 09:36	
Dibromofluoromethane (S)	%	100	70-130	04/08/16 09:36	
Toluene-d8 (S)	%	102	70-130	04/08/16 09:36	

LABORATORY CONTROL SAMPLE: 1316799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	70-131	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethane	ug/L	50	55.3	111	70-133	
1,1-Dichloroethene	ug/L	50	50.9	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	47.7	95	70-130	
1,2-Dichloropropane	ug/L	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
Benzene	ug/L	50	51.2	102	60-135	
Bromodichloromethane	ug/L	50	50.0	100	70-130	
Bromoform	ug/L	50	41.6	83	70-130	
Bromomethane	ug/L	50	25.7	51	33-130	
Carbon disulfide	ug/L	50	58.5	117	70-139	
Carbon tetrachloride	ug/L	50	49.3	99	70-138	
Chlorobenzene	ug/L	50	50.4	101	70-130	
Chloroethane	ug/L	50	46.2	92	51-130	
Chloroform	ug/L	50	49.2	98	70-130	
Chloromethane	ug/L	50	40.1	80	25-132	
cis-1,2-Dichloroethene	ug/L	50	52.2	104	69-130	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	46.1	92	70-130	
Dichlorodifluoromethane	ug/L	50	32.7	65	23-130	
Ethylbenzene	ug/L	50	51.2	102	70-136	
m&p-Xylene	ug/L	100	103	103	70-138	
Methyl-tert-butyl ether	ug/L	50	51.5	103	66-138	
Methylene Chloride	ug/L	50	51.8	104	70-130	
o-Xylene	ug/L	50	50.4	101	70-134	
Styrene	ug/L	50	51.8	104	70-133	
Tetrachloroethene	ug/L	50	46.3	93	70-138	
Toluene	ug/L	50	51.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-131	
trans-1,3-Dichloropropene	ug/L	50	41.4	83	69-130	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

LABORATORY CONTROL SAMPLE: 1316799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	51.5	103	50-150	
Vinyl chloride	ug/L	50	49.5	99	49-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318051 1318052

Parameter	Units	40130364003		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result							
1,1,1-Trichloroethane	ug/L	<0.50	50	50	47.4	51.8	95	104	70-134	9	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.8	49.9	102	100	70-130	2	20		
1,1-Dichloroethane	ug/L	1.2	50	50	55.9	55.1	109	108	70-134	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	49.8	47.1	100	94	68-136	6	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	45.5	44.0	91	88	50-150	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.9	49.1	100	98	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.5	48.6	99	97	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	47.4	50.8	95	102	70-130	7	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	52.2	48.7	104	97	70-130	7	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.6	47.8	97	96	70-131	2	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	48.1	46.8	96	94	70-130	3	20		
Benzene	ug/L	1.0	50	50	50.9	52.9	100	104	57-138	4	20		
Bromodichloromethane	ug/L	<0.50	50	50	48.9	45.0	98	90	70-130	8	20		
Bromoform	ug/L	<0.50	50	50	41.5	41.6	83	83	70-130	0	20		
Bromomethane	ug/L	<2.4	50	50	33.3	39.1	63	74	33-130	16	27		
Carbon disulfide	ug/L	<0.61	50	50	59.6	56.2	119	112	70-153	6	20		
Carbon tetrachloride	ug/L	<0.50	50	50	48.3	51.2	97	102	70-138	6	20		
Chlorobenzene	ug/L	<0.50	50	50	49.1	48.6	98	97	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	49.2	42.9	98	86	51-130	14	20		
Chloroform	ug/L	<2.5	50	50	48.2	51.7	96	103	70-130	7	20		
Chloromethane	ug/L	<0.50	50	50	40.9	42.6	82	85	25-132	4	20		
cis-1,2-Dichloroethene	ug/L	1.8	50	50	53.3	52.2	103	101	61-140	2	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	48.3	44.2	97	88	70-130	9	20		
Dibromochloromethane	ug/L	<0.50	50	50	45.4	44.4	91	89	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	31.9	29.7	64	59	23-130	7	20		
Ethylbenzene	ug/L	<0.50	50	50	49.8	50.1	100	100	70-138	1	20		
m&p-Xylene	ug/L	<1.0	100	100	100	101	100	101	70-140	1	20		
Methyl-tert-butyl ether	ug/L	0.31J	50	50	51.9	48.8	103	97	66-139	6	20		
Methylene Chloride	ug/L	<0.23	50	50	51.0	48.3	102	97	70-130	5	20		
o-Xylene	ug/L	<0.50	50	50	49.1	48.9	98	98	70-134	0	20		
Styrene	ug/L	<0.50	50	50	50.6	50.5	101	101	70-138	0	20		
Tetrachloroethene	ug/L	<0.50	50	50	44.7	43.8	89	88	70-148	2	20		
Toluene	ug/L	<0.50	50	50	50.5	50.2	101	100	70-130	0	20		

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Parameter	Units	1318051		1318052		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40130364003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	53.0	49.9	106	100	70-133	6	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	41.7	42.3	83	85	69-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	50.2	48.4	100	97	70-131	4	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	50.0	47.5	100	95	50-150	5	20	
Vinyl chloride	ug/L	1.9	50	50	51.0	48.3	98	93	49-133	5	20	
4-Bromofluorobenzene (S)	%						99	98	70-130			
Dibromofluoromethane (S)	%						97	102	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: MSV/32948 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40130440001, 40130440002, 40130440003, 40130440004

METHOD BLANK: 1317971 Matrix: Water  
Associated Lab Samples: 40130440001, 40130440002, 40130440003, 40130440004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/12/16 06:59	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/12/16 06:59	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/12/16 06:59	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/12/16 06:59	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/12/16 06:59	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/12/16 06:59	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 06:59	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/12/16 06:59	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/12/16 06:59	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 06:59	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 06:59	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/12/16 06:59	
Acetone	ug/L	<3.0	20.0	04/12/16 06:59	
Benzene	ug/L	<0.50	1.0	04/12/16 06:59	
Bromodichloromethane	ug/L	<0.50	1.0	04/12/16 06:59	
Bromoform	ug/L	<0.50	1.0	04/12/16 06:59	
Bromomethane	ug/L	<2.4	5.0	04/12/16 06:59	
Carbon disulfide	ug/L	<0.61	5.0	04/12/16 06:59	
Carbon tetrachloride	ug/L	<0.50	1.0	04/12/16 06:59	
Chlorobenzene	ug/L	<0.50	1.0	04/12/16 06:59	
Chloroethane	ug/L	<0.37	1.0	04/12/16 06:59	
Chloroform	ug/L	<2.5	5.0	04/12/16 06:59	
Chloromethane	ug/L	<0.50	1.0	04/12/16 06:59	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/16 06:59	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/12/16 06:59	
Dibromochloromethane	ug/L	<0.50	1.0	04/12/16 06:59	
Dibromomethane	ug/L	<0.43	1.0	04/12/16 06:59	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/12/16 06:59	
Ethylbenzene	ug/L	<0.50	1.0	04/12/16 06:59	
m&p-Xylene	ug/L	<1.0	2.0	04/12/16 06:59	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/12/16 06:59	
Methylene Chloride	ug/L	<0.23	1.0	04/12/16 06:59	
Naphthalene	ug/L	<2.5	5.0	04/12/16 06:59	
o-Xylene	ug/L	<0.50	1.0	04/12/16 06:59	
Styrene	ug/L	<0.50	1.0	04/12/16 06:59	
Tetrachloroethane	ug/L	<0.50	1.0	04/12/16 06:59	
Tetrahydrofuran	ug/L	<2.0	5.0	04/12/16 06:59	
Toluene	ug/L	<0.50	1.0	04/12/16 06:59	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/16 06:59	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/12/16 06:59	
Trichloroethene	ug/L	<0.33	1.0	04/12/16 06:59	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL  
Pace Project No.: 40130440

METHOD BLANK: 1317971 Matrix: Water  
Associated Lab Samples: 40130440001, 40130440002, 40130440003, 40130440004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/12/16 06:59	
Vinyl chloride	ug/L	<0.18	1.0	04/12/16 06:59	
4-Bromofluorobenzene (S)	%	92	70-130	04/12/16 06:59	
Dibromofluoromethane (S)	%	98	70-130	04/12/16 06:59	
Toluene-d8 (S)	%	95	70-130	04/12/16 06:59	

LABORATORY CONTROL SAMPLE: 1317972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	97	70-131	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-133	
1,1-Dichloroethene	ug/L	50	47.2	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.0	88	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	47.7	95	70-130	
1,2-Dichloropropane	ug/L	50	49.7	99	70-130	
1,3-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	
Benzene	ug/L	50	47.5	95	60-135	
Bromodichloromethane	ug/L	50	51.2	102	70-130	
Bromoform	ug/L	50	47.1	94	70-130	
Bromomethane	ug/L	50	30.7	61	33-130	
Carbon disulfide	ug/L	50	55.1	110	70-139	
Carbon tetrachloride	ug/L	50	50.9	102	70-138	
Chlorobenzene	ug/L	50	49.1	98	70-130	
Chloroethane	ug/L	50	45.5	91	51-130	
Chloroform	ug/L	50	48.4	97	70-130	
Chloromethane	ug/L	50	37.3	75	25-132	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	69-130	
cis-1,3-Dichloropropene	ug/L	50	46.2	92	70-130	
Dibromochloromethane	ug/L	50	46.5	93	70-130	
Dichlorodifluoromethane	ug/L	50	28.1	56	23-130	
Ethylbenzene	ug/L	50	50.5	101	70-136	
m&p-Xylene	ug/L	100	103	103	70-138	
Methyl-tert-butyl ether	ug/L	50	42.7	85	66-138	
Methylene Chloride	ug/L	50	48.4	97	70-130	
o-Xylene	ug/L	50	49.8	100	70-134	
Styrene	ug/L	50	53.5	107	70-133	
Tetrachloroethene	ug/L	50	51.3	103	70-138	
Toluene	ug/L	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.5	95	70-131	
trans-1,3-Dichloropropene	ug/L	50	41.4	83	69-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

LABORATORY CONTROL SAMPLE: 1317972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	51.6	103	50-150	
Vinyl chloride	ug/L	50	43.0	86	49-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318378 1318379

Parameter	Units	40130442002		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result							
1,1,1-Trichloroethane	ug/L	<0.50	50	50	46.2	50.3	92	101	70-134	9	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	45.7	47.8	91	96	70-130	4	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	45.8	49.9	92	100	70-134	8	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	45.6	49.9	91	100	68-136	9	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	57.8	56.6	116	113	50-150	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	45.4	47.1	91	94	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	46.1	47.5	92	95	70-130	3	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	44.1	48.0	88	96	70-130	9	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	46.4	48.7	93	97	70-130	5	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.5	48.5	93	97	70-131	4	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.1	48.7	94	97	70-130	3	20		
Benzene	ug/L	<0.50	50	50	44.4	47.5	89	95	57-138	7	20		
Bromodichloromethane	ug/L	<0.50	50	50	47.6	49.1	95	98	70-130	3	20		
Bromoform	ug/L	<0.50	50	50	43.3	44.9	87	90	70-130	4	20		
Bromomethane	ug/L	<2.4	50	50	34.2	38.1	68	76	33-130	11	27		
Carbon disulfide	ug/L	<0.61	50	50	54.2	59.5	108	118	70-153	9	20		
Carbon tetrachloride	ug/L	<0.50	50	50	47.5	51.6	95	103	70-138	8	20		
Chlorobenzene	ug/L	<0.50	50	50	45.8	47.2	92	94	70-130	3	20		
Chloroethane	ug/L	<0.37	50	50	46.3	49.0	93	98	51-130	6	20		
Chloroform	ug/L	<2.5	50	50	45.2	49.6	90	99	70-130	9	20		
Chloromethane	ug/L	<0.50	50	50	42.8	47.3	86	95	25-132	10	20		
cis-1,2-Dichloroethene	ug/L	0.36J	50	50	44.3	47.7	88	95	61-140	7	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	43.3	45.1	87	90	70-130	4	20		
Dibromochloromethane	ug/L	<0.50	50	50	42.5	43.8	85	88	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	43.3	47.6	87	95	23-130	10	20		
Ethylbenzene	ug/L	<0.50	50	50	46.6	47.9	93	96	70-138	3	20		
m&p-Xylene	ug/L	<1.0	100	100	98.2	98.7	98	99	70-140	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	39.0	43.0	78	86	66-139	10	20		
Methylene Chloride	ug/L	<0.23	50	50	45.1	49.8	90	100	70-130	10	20		
o-Xylene	ug/L	<0.50	50	50	47.0	47.8	94	96	70-134	2	20		
Styrene	ug/L	<0.50	50	50	49.2	51.0	98	102	70-138	4	20		
Tetrachloroethene	ug/L	<0.50	50	50	48.4	49.4	97	99	70-148	2	20		
Toluene	ug/L	<0.50	50	50	46.5	47.4	93	95	70-130	2	20		

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318378		1318379		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40130442002 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	45.7	49.6	91	99	70-133	8	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	38.0	39.8	76	80	69-130	5	20		
Trichloroethene	ug/L	<0.33	50	50	48.0	50.6	96	101	70-131	5	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	50.1	55.2	100	110	50-150	10	20		
Vinyl chloride	ug/L	0.19J	50	50	46.1	50.5	92	101	49-133	9	20		
4-Bromofluorobenzene (S)	%						97	97	70-130				
Dibromofluoromethane (S)	%						98	104	70-130				
Toluene-d8 (S)	%						96	96	70-130				

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: MSV/32970 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004, 40130567005

METHOD BLANK: 1318189 Matrix: Water  
 Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004, 40130567005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/12/16 15:25	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/12/16 15:25	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/12/16 15:25	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/12/16 15:25	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/12/16 15:25	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/12/16 15:25	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 15:25	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/12/16 15:25	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/12/16 15:25	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 15:25	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/12/16 15:25	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/12/16 15:25	
Acetone	ug/L	<3.0	20.0	04/12/16 15:25	
Benzene	ug/L	<0.50	1.0	04/12/16 15:25	
Bromodichloromethane	ug/L	<0.50	1.0	04/12/16 15:25	
Bromoform	ug/L	<0.50	1.0	04/12/16 15:25	
Bromomethane	ug/L	<2.4	5.0	04/12/16 15:25	
Carbon disulfide	ug/L	<0.61	5.0	04/12/16 15:25	
Carbon tetrachloride	ug/L	<0.50	1.0	04/12/16 15:25	
Chlorobenzene	ug/L	<0.50	1.0	04/12/16 15:25	
Chloroethane	ug/L	<0.37	1.0	04/12/16 15:25	
Chloroform	ug/L	<2.5	5.0	04/12/16 15:25	
Chloromethane	ug/L	<0.50	1.0	04/12/16 15:25	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/16 15:25	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/12/16 15:25	
Dibromochloromethane	ug/L	<0.50	1.0	04/12/16 15:25	
Dibromomethane	ug/L	<0.43	1.0	04/12/16 15:25	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/12/16 15:25	
Ethylbenzene	ug/L	<0.50	1.0	04/12/16 15:25	
m&p-Xylene	ug/L	<1.0	2.0	04/12/16 15:25	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/12/16 15:25	
Methylene Chloride	ug/L	<0.23	1.0	04/12/16 15:25	
Naphthalene	ug/L	<2.5	5.0	04/12/16 15:25	
o-Xylene	ug/L	<0.50	1.0	04/12/16 15:25	
Styrene	ug/L	<0.50	1.0	04/12/16 15:25	
Tetrachloroethene	ug/L	<0.50	1.0	04/12/16 15:25	
Tetrahydrofuran	ug/L	<2.0	5.0	04/12/16 15:25	
Toluene	ug/L	<0.50	1.0	04/12/16 15:25	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/16 15:25	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/12/16 15:25	
Trichloroethene	ug/L	<0.33	1.0	04/12/16 15:25	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

METHOD BLANK: 1318189

Matrix: Water

Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004, 40130567005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/12/16 15:25	
Vinyl chloride	ug/L	<0.18	1.0	04/12/16 15:25	
4-Bromofluorobenzene (S)	%	90	70-130	04/12/16 15:25	
Dibromofluoromethane (S)	%	106	70-130	04/12/16 15:25	
Toluene-d8 (S)	%	94	70-130	04/12/16 15:25	

LABORATORY CONTROL SAMPLE: 1318190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-131	
1,1,2-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethane	ug/L	50	47.5	95	70-133	
1,1-Dichloroethene	ug/L	50	46.1	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.0	86	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	70-130	
1,2-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	48.9	98	70-130	
1,3-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.1	94	70-130	
Benzene	ug/L	50	45.5	91	60-135	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	45.8	92	70-130	
Bromomethane	ug/L	50	33.0	66	33-130	
Carbon disulfide	ug/L	50	53.0	106	70-139	
Carbon tetrachloride	ug/L	50	49.9	100	70-138	
Chlorobenzene	ug/L	50	46.5	93	70-130	
Chloroethane	ug/L	50	43.4	87	51-130	
Chloroform	ug/L	50	47.7	95	70-130	
Chloromethane	ug/L	50	35.9	72	25-132	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	69-130	
cis-1,3-Dichloropropene	ug/L	50	44.5	89	70-130	
Dibromochloromethane	ug/L	50	44.7	89	70-130	
Dichlorodifluoromethane	ug/L	50	27.1	54	23-130	
Ethylbenzene	ug/L	50	47.4	95	70-136	
m&p-Xylene	ug/L	100	97.6	98	70-138	
Methyl-tert-butyl ether	ug/L	50	41.7	83	66-138	
Methylene Chloride	ug/L	50	46.8	94	70-130	
o-Xylene	ug/L	50	47.3	95	70-134	
Styrene	ug/L	50	50.7	101	70-133	
Tetrachloroethene	ug/L	50	47.7	95	70-138	
Toluene	ug/L	50	47.0	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.1	92	70-131	
trans-1,3-Dichloropropene	ug/L	50	38.6	77	69-130	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

LABORATORY CONTROL SAMPLE: 1318190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	50.2	100	70-130	
Trichlorofluoromethane	ug/L	50	50.8	102	50-150	
Vinyl chloride	ug/L	50	41.9	84	49-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318632 1318633

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40130561021 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	50.5	49.1	101	98	70-134	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.3	49.7	101	99	70-130	1	20	
1,1-Dichloroethane	ug/L	1.5	50	50	51.0	50.5	99	98	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	48.2	48.3	96	97	68-136	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	45.4	46.5	91	93	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.7	49.3	99	99	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.6	49.0	97	98	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.8	48.7	98	97	70-130	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	49.5	50.0	99	100	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.0	48.6	96	97	70-131	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.6	49.9	99	100	70-130	1	20	
Benzene	ug/L	<0.50	50	50	46.9	46.6	94	93	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	50.9	52.3	102	105	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	47.7	47.9	95	96	70-130	0	20	
Bromomethane	ug/L	<2.4	50	50	38.8	39.7	78	79	33-130	2	27	
Carbon disulfide	ug/L	<0.61	50	50	56.8	56.4	114	113	70-153	1	20	
Carbon tetrachloride	ug/L	<0.50	50	50	51.8	51.7	104	103	70-138	0	20	
Chlorobenzene	ug/L	<0.50	50	50	49.7	48.9	99	98	70-130	2	20	
Chloroethane	ug/L	<0.37	50	50	47.1	47.1	94	94	51-130	0	20	
Chloroform	ug/L	<2.5	50	50	49.5	49.0	99	98	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	43.6	45.7	87	91	25-132	5	20	
cis-1,2-Dichloroethene	ug/L	7.6	50	50	53.3	53.5	91	92	61-140	0	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	46.0	47.0	92	94	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	47.1	46.8	94	94	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	43.7	42.9	87	86	23-130	2	20	
Ethylbenzene	ug/L	<0.50	50	50	50.2	49.9	100	100	70-138	0	20	
m&p-Xylene	ug/L	<1.0	100	100	104	103	104	103	70-140	2	20	
Methyl-tert-butyl ether	ug/L	0.41J	50	50	43.3	43.8	86	87	66-139	1	20	
Methylene Chloride	ug/L	<0.23	50	50	48.4	48.4	97	97	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	50.2	49.0	100	98	70-134	2	20	
Styrene	ug/L	<0.50	50	50	53.9	52.9	108	106	70-138	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	51.6	51.4	103	103	70-148	0	20	
Toluene	ug/L	<0.50	50	50	49.5	49.0	99	98	70-130	1	20	

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318632		1318633		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40130561021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	0.35J	50	50	48.4	48.4	96	96	70-133	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	41.9	42.0	84	84	69-130	0	20		
Trichloroethene	ug/L	26.2	50	50	78.5	79.5	105	107	70-131	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	53.6	53.0	107	106	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	48.8	48.3	98	97	49-133	1	20		
4-Bromofluorobenzene (S)	%						102	99	70-130				
Dibromofluoromethane (S)	%						103	108	70-130				
Toluene-d8 (S)	%						98	96	70-130				

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch:	WETA/33093	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions,Dissolved
Associated Lab Samples:	40130361003		

METHOD BLANK: 1318555 Matrix: Water  
Associated Lab Samples: 40130361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/18/16 16:42	

LABORATORY CONTROL SAMPLE: 1318556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.7	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318557 1318558

Parameter	Units	40130355005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	3.5J	20	20	22.7	22.5	96	95	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318559 1318560

Parameter	Units	40130363005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	44.3	100	100	140	143	96	99	90-110	2	20

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: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: WETA/33115 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved  
 Associated Lab Samples: 40130440001, 40130440002, 40130440003

METHOD BLANK: 1319140 Matrix: Water  
 Associated Lab Samples: 40130440001, 40130440002, 40130440003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/18/16 10:02	

LABORATORY CONTROL SAMPLE: 1319141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319142 1319143

Parameter	Units	40130363006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	41.6	100	100	136	138	95	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319144 1319145

Parameter	Units	40130442005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	62.4	100	100	169	168	106	106	90-110	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: WETA/33179

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions, Dissolved

Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

METHOD BLANK: 1321776

Matrix: Water

Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	4.0	04/21/16 15:46	

LABORATORY CONTROL SAMPLE: 1321777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321778 1321779

Parameter	Units	40130565011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	36.2	20	20	58.7	58.9	112	113	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321780 1321781

Parameter	Units	40130569001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	20	20	40.5	40.8	106	107	90-110	1	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch:	WETA/33149	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity, Dissolved
Associated Lab Samples:	40130361003		

METHOD BLANK: 1320365 Matrix: Water  
Associated Lab Samples: 40130361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/15/16 12:43	

LABORATORY CONTROL SAMPLE: 1320366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	96.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320367 1320368

Parameter	Units	40130363007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	366	500	500	849	859	97	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320369 1320370

Parameter	Units	40130594003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	448	200	200	655	666	103	109	90-110	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: WETA/33150

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40130440001, 40130440002, 40130440003

METHOD BLANK: 1320371

Matrix: Water

Associated Lab Samples: 40130440001, 40130440002, 40130440003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/15/16 13:05	

LABORATORY CONTROL SAMPLE: 1320372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	97.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320373 1320374

Parameter	Units	40130442005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	420	500	500	905	875	97	91	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320375 1320376

Parameter	Units	40130532006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	283	200	200	368	361	43	39	90-110	2	20 M0	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

QC Batch: WETA/33151 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

METHOD BLANK: 1320377 Matrix: Water  
 Associated Lab Samples: 40130567001, 40130567002, 40130567003, 40130567004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	04/15/16 14:33	

LABORATORY CONTROL SAMPLE: 1320378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	97.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320379 1320380

Parameter	Units	40130566003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	627	500	500	1150	1120	104	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320381 1320382

Parameter	Units	40130568004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	373	500	500	838	833	93	92	90-110	1	20	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

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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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130440001	P-401D	EPA 6010	ICP/12072		
40130440002	P-402E	EPA 6010	ICP/12072		
40130440003	P-422B	EPA 6010	ICP/12072		
40130567001	P-423D	EPA 6010	ICP/12078		
40130567002	P-424D	EPA 6010	ICP/12078		
40130567003	P-424SS	EPA 6010	ICP/12078		
40130567004	P-426D	EPA 6010	ICP/12078		
40130361003	MW-1B	EPA 3020	MPRP/62514	EPA 6020A	ICPM/28907
40130361003	MW-1B	EPA 8260	MSV/32929		
40130440001	P-401D	EPA 8260	MSV/32948		
40130440002	P-402E	EPA 8260	MSV/32948		
40130440003	P-422B	EPA 8260	MSV/32948		
40130440004	TRIP BLANK	EPA 8260	MSV/32948		
40130567001	P-423D	EPA 8260	MSV/32970		
40130567002	P-424D	EPA 8260	MSV/32970		
40130567003	P-424SS	EPA 8260	MSV/32970		
40130567004	P-426D	EPA 8260	MSV/32970		
40130567005	TRIP BLANK	EPA 8260	MSV/32970		
40130361003	MW-1B		PM/		
40130440001	P-401D		PM/		
40130440002	P-402E		PM/		
40130440003	P-422B		PM/		
40130567001	P-423D		PM/		
40130567002	P-424D		PM/		
40130567003	P-424SS		PM/		
40130567004	P-426D		PM/		
40130361042	P-401D		PM/		
40130361043	P-402E		PM/		
40130361044	P-422B		PM/		
40130361045	P-423D		PM/		
40130361046	P-424D		PM/		
40130361047	P-424SS		PM/		
40130361048	P-426D		PM/		
40130361049	MW-1B		PM/		
40130361003	MW-1B	EPA 300.0	WETA/33093		
40130440001	P-401D	EPA 300.0	WETA/33115		
40130440002	P-402E	EPA 300.0	WETA/33115		
40130440003	P-422B	EPA 300.0	WETA/33115		
40130567001	P-423D	EPA 300.0	WETA/33179		
40130567002	P-424D	EPA 300.0	WETA/33179		
40130567003	P-424SS	EPA 300.0	WETA/33179		
40130567004	P-426D	EPA 300.0	WETA/33179		
40130361003	MW-1B	EPA 310.2	WETA/33149		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELL APRIL

Pace Project No.: 40130440

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130440001	P-401D	EPA 310.2	WETA/33150		
40130440002	P-402E	EPA 310.2	WETA/33150		
40130440003	P-422B	EPA 310.2	WETA/33150		
40130567001	P-423D	EPA 310.2	WETA/33151		
40130567002	P-424D	EPA 310.2	WETA/33151		
40130567003	P-424SS	EPA 310.2	WETA/33151		
40130567004	P-426D	EPA 310.2	WETA/33151		

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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.

30130410

Page: 1 of 1

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
ADS Glacier Ridge		Report To: Same		Attention: Same	
N7296 Hwy V		Copy To: Frank Perugini - ESC, Mari Bull - SCS Eng, Sherren Clark - SCS Eng		Company Name:	
Horicon, WI 53032		Purchase Order No.:		Address:	
Email To: Tim Curry - ADS		Project Name: LGRL GW APR		Pace Project Manager: Cindy Varga	
Phone:		Project Number:		Pace Profile #: 4172 line 17	
Requested Due Date/TAT:		Valid Matrix Codes		REGULATORY AGENCY	

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID WIRE AIR OTHER TISSUE	CODE DW WW P SL WP AR OT IS	COLLECTED		# OF CONTAINERS	Nitric HCL Unpreserved	Preservatives	Requested Ant	Filtered (Y/N)	Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact	
				MATRIX CODE	SAMPLE TYPE											G+GRAB C-COMP
1	P-401D		001	6W6	↓	4/17/16	1130	5	1	3	1	4/18/16	0545	POFF	Y/N	Y/N
2	P-402E		002	↓	↓	1100	913	5	1	3	1				Y/N	Y/N
3	P-403B		003	6W6	↓	4/17/16	1045	5	1	3	1				Y/N	Y/N
4	Tap Blank		004	-	-	-	-	2	0	2	0				Y/N	Y/N

**Additional Comments:**  
VOCs - MW-1RR, MW-1AR, W-3AR, W-3AR, MW-210, MW-210A, MW-210B, DUP02, W-163, W-163A

RELINQUISHED BY / AFFILIATION: *[Signature]* DATE: 4/16/16 TIME: 1730  
ACCEPTED BY / AFFILIATION: *[Signature]* DATE: 4/18/16 TIME: 0545

SAMPLER NAME AND SIGNATURE: *[Signature]*  
PRINT Name of SAMPLER: Scott Freemark  
SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 4/17/16



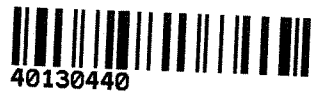
Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: ADS

Project #: WO#: 40130440

Courier: Fed Ex UPS Client Pace Other: Dunham
Tracking #: 1154050



Custody Seal on Cooler/Box Present: yes no
Custody Seal on Samples Present: yes no
Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: N/A
Type of Ice: Wet Blue Dry None
Cooler Temperature: Uncorr: ROT Corr:
Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 4-8-16
Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows for checklist items: Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased).

Client Notification/ Resolution:
Person Contacted:
Date/Time:
Comments/ Resolution:

Project Manager Review:
Date: 4/8/16





Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: ADS

Project #: WO#: 40130567

Courier: Fed Ex UPS Client Pace Other: Dunham
Tracking #: 1154564



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: m Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 201 / Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 4-9-16
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of inspection criteria and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, etc.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: Date: 4/11/16



Sample Condition Upon Receipt

Pace Analytical Services, Inc.  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

**Pace Analytical™**  
Client Name: ADS

Project #: **WO# : 40130361**

Courier:  Fed Ex  UPS  Client  Pace Other: Dunlap  
Tracking #: 1153553



Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no  
Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no  
Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used: N/A    Type of Ice:  Wet  Blue  Dry  None     Samples on ice, cooling process has begun  
Cooler Temperature: Uncorr: ROF / Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:  
Date: 4-7-16  
Initials: SEW

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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
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	
(HNO3, H2SO4 ≤ 2, NaOH+ZnAct ≥ 9, NaOH ≥ 12) exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: <u>SKN</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>4/7/16</u> <u>SEW</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**Client Notification/ Resolution:** \_\_\_\_\_  
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_  
If checked, see attached form for additional comments

**Project Manager Review:** CS    Date: 4/7/16