

SCS ENGINEERS

May 10, 2018
File No. 25211374.49

Mr. Trevor Bannister
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Phase 3 Investigation Report
Off-Site Investigation of Chlorinated Volatile Organic Compounds in
Groundwater in Bedrock
Land & Gas Reclamation Landfill, Dodge County, Wisconsin

Dear Mr. Bannister:

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 the Phase 2 update was submitted in June 2016. The work completed was Phase 3 of the overall investigation plan described in the April 2012 workplan for off-site investigation of chlorinated volatile organic compounds (CVOCs) in bedrock.

This Phase 3 investigation report includes:

- Background on the investigation objectives and chronology
- Description of Phase 3 field investigation activities including:
 - Borehole drilling and logging
 - Monitoring well installation
- Results of bedrock groundwater monitoring including:
 - Water levels
 - Monitoring well sampling and analysis
 - Water supply well sampling and analysis
- Conclusions and recommendations

A recommendation for additional monitoring is 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 Phase 3 was to further define the downgradient extent of the CVOC plume.

Investigation Chronology

Implementation of the investigation approach outlined in the 2012 workplan has been documented in the following reports and correspondence:

Document	By	Date
Workplan for Offsite Investigation of Chlorinated VOC Plume in Bedrock	SCS	4/11/2012
Workplan approval email	WDNR	5/7/2012
Status of Off-site Investigation (Phase 1 Complete)	SCS	8/13/2013
Phase 2 Investigation Update and Phase 3 Investigation Recommendations (Phase 2 Complete)	SCS	6/17/2016
Response to Phase 2 Update and Concurrence with Phase 3 Recommendations	WDNR	7/19/2016
Phase 3 Investigation Update Memo (Phase 3 in progress, modified approach proposed)	SCS	6/22/2017
Response to Phase 2 Update and Concurrence with Modified Approach	WDNR	7/12/2017

The following discussion provides a brief summary of the Phase 1 and 2 results as background for the discussion of Phases 3. For more detailed information on Phase 1 and 2 activities, refer to the documents listed above

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 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.

During Phase 1, 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**. P424D is constructed in the upper dolomite bedrock with a screen open across a “high flow” zone from 183 to 203 feet below ground surface (bgs). P424SS is screened in the upper sandstone at a depth of 389 to 409 bgs. Boring and well depths are shown with the site geology on cross sections A-A’ and B-B’ (**Figures 2 through 3B**).

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.

In two sample rounds, water supply well PW-27 (now abandoned) and monitoring well P424D contained very similar concentrations of CVOCs including chloroethane, cis-1,2-dichloroethene (DCE), trans-1,2-DCE, trichloroethene (TCE), 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 Summary

As stated above, 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. Two wells were proposed to be installed in the upper dolomite at locations north and south of the P424 well nest, pending borehole testing to ensure that each well was intersecting a flow zone and would provide enough water for sampling.

The Phase 2 drilling locations included P425D, P426D, and P427D, shown on **Figure 1**. Activities completed at one or more of the three locations included drilling, logging, and packer testing. Boring and well depths are shown with the site geology on cross sections A-A' and B-B' (**Figures 2 through 3B**).

Of the two boreholes initially installed in Phase 2 (P425D and P426D), only P426D encountered sufficient water for sampling in the dolomite bedrock. The monitoring well in the P426D borehole was constructed with an open interval set in the productive portion of the upper dolomite from about 199 to 219 feet bgs.

The geophysical and flow logging at P425D provided indications of some groundwater flow in the shale; however, there was not any evidence of flow in the dolomite at this location. An additional boring was added (P427D) between P424D and P425D, but also showed minimal flow in the dolomite. Based on the absence of appreciable flow in the dolomite at P425D and P427D, both boreholes were abandoned.

PHASE 3 INVESTIGATION FIELD ACTIVITIES

The Phase 3 objective was to install a monitoring well to better define the downgradient extent of the plume and to serve as a sentinel well for downgradient water supply wells. The recommendations in the June 2016 Phase 2 update report called for the installation of the well in the upper dolomite (proposed well P429D). The well construction approach was subsequently

modified due to a lack of transmissive zones within the dolomite, and the well was installed in the deeper sandstone unit (well P429SS). Drilling was completed in two mobilizations, and SCS corresponded with the WDNR project manager between mobilizations to gain concurrence regarding the change in approach. The following discussion describes the initial drilling and logging of borehole P429D in the dolomite, and then the subsequent drilling into the sandstone and installation of monitoring well P429SS.

Drilling Mobilization 1 – Dolomite Boring P429D

The following discussion provides a brief summary of the initial drilling mobilization and geophysical logging of the P429D borehole. For more detailed information on these activities, refer to the investigation status report submitted to the WDNR on June 22, 2017.

Drilling

Drilling of bedrock borehole P429D, at the Andrew Oechsner property, commenced on January 9, 2017. Badger Well Drilling performed the drilling and SCS provided oversight. Shale bedrock was encountered at 57 feet, and a 6-inch temporary casing was installed to a depth of 78 feet bgs in an 8.5-inch borehole. The hole was then drilled to 160 feet. The initial planned borehole depth was 260 feet, to potentially intercept the fracture zone identified in the upper dolomite at monitoring wells P402E, P424D, and P423D. At the P429D location, little or no apparent water was encountered in the upper portion of the dolomite, so the borehole was extended to a depth of 380 feet. The measured depth to water at the completion of drilling was 375 feet. The geologic units encountered include glacial till, shale, and dolomite. The boring log information from borehole P429D is shown on the log for P429SS (deepened borehole) in **Attachment A**.

Geophysical Logging

The geophysical logging provided indications of very little groundwater flow in the dolomite at P429D. The dolomite appears massive and relatively unfractured in the caliper log, with a possible fracture at about 235 feet bgs. The fluid temperature log shows no sharp changes in the dolomite, with an inflection at a depth of about 185 feet in the shale. The fluid conductivity was also very uniform in the dolomite, with spikes at about 138 and 160 feet bgs in the shale. The heat pulse flow meter did not detect any flow (upward or downward) in the borehole. The borehole logging information is included in **Attachment B**.

Findings and Recommendations

The observed low hydraulic conductivity of the dolomite at this location indicates that there is low potential for contaminant transport through this unit, except where fractures are present. Although a fracture zone has been observed near the top of the dolomite at other locations, it does not appear to be present at the P429D location.

Based on the results of the geophysical logging, SCS proposed to modify the work plan to extend the P429D borehole. The proposed change included extending the P429D borehole down into the sandstone below the dolomite and installed the 2-inch monitoring well (P429SS). WDNR concurred with the recommended change.

Drilling Mobilization 2 – Sandstone Monitoring Well P429SS

Drilling

In October 2017, Badger Well Drilling extended existing borehole P429D, which was renamed P429SS. SCS provided oversight and logging. Sandstone was encountered at 440 feet bgs and the borehole was extended to a total depth of 460 feet bgs. The boring log is included in **Attachment A**.

Well Construction and Development

Badger Well Drilling constructed a 2-inch monitoring well in the borehole on October 18, 2017, under the supervision of SCS. The monitoring well was constructed with an open interval set in the productive portion of the upper sandstone from about 445 to 460 feet bgs (**Figure 2** and **Figure 3B**), with a filter pack from 436 to 460 feet bgs. Two days after it was installed, the monitoring well was developed. Approximately 510 gallons of water was removed from the well. The PVC casing riser was added after development was completed. Monitoring well construction and development forms are included in **Attachment A**.

BEDROCK GROUNDWATER MONITORING

During the Phase 3 investigation, groundwater monitoring continued at existing bedrock monitoring wells and water supply wells, and new monitoring well P429SS was added to the monitoring program after installation. Results of the water level monitoring, monitoring well sampling, and water supply well sampling are discussed below.

Laboratory reports not previously submitted to WDNR are included in **Attachment C**, including reports for the following events:

- October 2016 investigation monitoring wells
- April 2017 investigation monitoring wells
- October 2017 investigation monitoring wells
- November 2017 P-429SS initial sample
- February 2018 P-429SS second sample

Laboratory reports for water supply well sampling were previously submitted to the WDNR following each sampling event.

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 2017.

The groundwater elevations measured in the upper dolomite monitoring wells on October 3 through 6, 2017, 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 to east flow direction indicated by the volatile organic compound (VOC) distribution. The apparent horizontal hydraulic gradient between LGRL (P401D) and downgradient well P424D was 0.001.

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 0.002 to 0.005 from late April 2016 through October 2017. The head in the dolomite was slightly higher than the sandstone during all 14 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 3 investigation, Environmental Sampling Corporation (ESC) collected groundwater samples from the existing bedrock monitoring wells semiannually from October 2016 through October 2017. New monitoring well P429SS was sampled in November 2017 and February 2018. P401D was not sampled on the routine schedule due to an obstruction in the well; however, ESC returned in December 2017 to collect a sample from P401D after the obstruction was removed.

The two primary CVOCs detected are cis-1,2-DCE and vinyl chloride. Bedrock monitoring well analytical data is summarized in **Table 2**. The concentrations of cis-1,2-DCE and vinyl chloride detected in October 2017, and the approximate extent of the CVOC contamination plume in bedrock, are shown on **Figure 5**. Concentration trends of cis-1,2-DCE and vinyl chloride in monitoring wells are shown on **Figures 6 and 7**.

The findings from the monitoring well sampling include the following:

- The two groundwater samples collected to date from new downgradient well P429SS, screened at the top of the sandstone unit, have shown no detectable CVOC concentrations.
- 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 cis-1,2-DCE and vinyl chloride in this well have consistently exceeded the NR 140 enforcement standard (ES), and concentrations of 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 7 years. 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 no observed CVOC contamination in the December 2017 sampling round. Low concentrations of cis-1,2- and trans-1,2-DCE and TCE were detected in the October 2015 and April 2016 sampling rounds but there have been no confirmed PAL exceedances.
- Monitoring well P424D, located on the All-Line property, contains concentrations of cis-1,2-DCE and vinyl chloride greater than the corresponding ESs. The CVOC concentration trends at P424D have been generally stable over the last several years, with a slight increase in October 2017.
- Monitoring well P423D, located on the Andrew Oechsner farm property, has detectable concentrations of several CVOCs; however, only vinyl chloride exceeds the ES in samples from this well. The CVOC concentrations detected in this well show an overall stable or very slightly decreasing trend since monitoring began in 2010.
- Monitoring well P426D, installed to define the northern limit of the CVOC plume, has shown no detectable CVOCs since the well was first sampled in 2015.
- 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 cis-1,2-DCE and vinyl chloride are shown on **Figures 8** and **9**.

The findings of the water supply well sampling include the following:

- The replacement water supply well for the Oechsner farm (PW-21RR) has been sampled monthly since October 2010. The cis-1,2-DCE concentration trends for PW-21RR have been variable (**Figure 8**). Cis-1,2-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. Vinyl chloride concentrations in this well have shown an overall declining trend since mid-2012 (**Figure 9**), and have been generally stable in the last 2 years. This well has a groundwater treatment system, and post-treatment samples demonstrate that the system is effectively removing vinyl chloride and cis-1,2-DCE, with treated water

concentrations well below the drinking water maximum contaminant levels (MCLs) (**Table 3**).

- The cis-1,2-DCE concentrations in samples from the Wendall Muche well (PW-28) have shown a very gradually increasing trend since 2011. The detected cis-1,2-DCE concentrations are still below the NR 140 Preventative Action Limit (PAL) of 7 micrograms per liter $\mu\text{g/L}$ and well below the MCL of 70 $\mu\text{g/L}$. 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 cis-1,2-DCE well below the MCL. The cis-1,2-DCE concentrations in this well appear to be relatively stable since April 2013.
- Trace concentrations of cis-1,2-DCE have also been detected in some of the samples collected from PW-32 (J. Oechsner). The detected cis-1,2-DCE concentrations are also well below the drinking water MCL, and typically below the laboratory's limit of quantitation, with the exception of the October 2015 and October 2017 sampling rounds.
- None of the other six water supply wells that were sampled routinely as part of Phase 3 contained detectable concentrations of CVOCs.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Conclusions of the investigation, including Phases 1 through 3, include the following:

- The lack of CVOCs in groundwater samples from monitoring well P429SS suggests that CVOC contamination in the sandstone aquifer does not extend to the northeast beyond the Andrew Oechsner property.
- Hydrogeologic and laboratory analytical data from the P424D/P424SS monitoring well nest on the All-Line property continue to support the theory that horizontal movement of the CVOCs away 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, P427D, and P429SS indicate that the relatively permeable, fractured zone in the upper dolomite encountered at the P423, P424, and P426 locations does not extend throughout the investigation area.
- 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 mostly stable or decreasing.
- The slight increasing trend of cis-1,2-DCE concentrations in PW-28, and the consistent presence of low concentrations of cis-1,2-DCE in PW-19, suggest that the leading edge of the dissolved CVOC plume may be continuing to migrate; however, vinyl chloride has not been detected in these wells, and the cis-1,2-DCE concentrations remain well below the NR 140 PAL.

Phase 3 Recommendations

We recommend continued groundwater monitoring to evaluate the groundwater conditions at the site, with new monitoring well P429SS added to the monitoring program. We recommend continuing the routine bedrock monitoring program during 2018 as has been implemented during the investigation, 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, P429SS

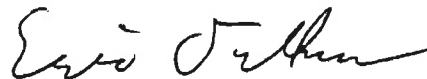
An update report covering the 2018 monitoring will be submitted by March 31, 2019. Private well monitoring results will continue to be provided to the WDNR within 10 days of receipt of the results.

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

Sincerely,



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Project Director
SCS ENGINEERS



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NDK/EO/AJR/SC

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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 3A – Cross Section A-A'
Figure 3B – Cross Section B-B'
Figure 4 – Dolomite Bedrock Groundwater Elevation and Potentiometric Surface Contours
Figure 5 – VOCs in Bedrock Groundwater – October 2017
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 – P429D Borehole Logging Results
Attachment C – Laboratory Reports (October 2016 through February 2018)

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	P424SS	P426D	P429SS
Measurement Date										
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	
October 7, 2016	80.35	77.5	98.60				91.6	91.3	105.3	
April 7, 2017	75.80	72.52	94.30				87.33	87.10	101.00	
October 6, 2017	79.56	76.35	98.12				91.10	90.85	103.82	
November 30, 2017										156.90
December 28, 2017	77.65									
February 1, 2018										155.80

Well Number	Ground Water Elevation in feet above mean sea level (amsl)									
	P401D	P402E	P423D	Office Well	PW18	PW27	P424D	P424SS	P426D	P429SS
Top of Casing Elevation (feet amsl)	932.30	929.08	948.99	958.14	947.56	946.15	942.60	941.88	955.64	999.24
Screen/Open Hole Length (ft)	15.00	20.00	18.00	46.00	60.00	43.00	20.00	20.00	20.00	15.00
Total Depth (ft from top of casing)	147.40	177.98	225.01	202.00	247.00	205.00	206.10	411.45	221.80	460.00
Top of Screen / Open Hole Elevation (ft)	799.90	771.10	205.01	802.14	760.56	784.15	756.50	550.43	753.84	554.24
Measurement Date										
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	
October 7, 2016	851.95	851.58	850.39				851.00	850.58	850.34	
April 7, 2017	856.50	856.56	854.69				855.27	854.78	854.64	
October 6, 2017	852.74	852.73	850.87				851.50	851.03	851.82	
November 30, 2017										842.34
December 28, 2017	854.65									
February 1, 2018										843.44
Bottom of Well Elevation (ft)	784.90	751.10	723.98	756.14	700.56	741.15	736.50	530.43	733.84	539.24

Created by: EO Date: 3/16/2010
 Last revision by: JSN Date: 3/9/2018
 Checked by: NDK Date: 3/15/2018

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2017

(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	
12/28/2017	Pace	16.4	340	323	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
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
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	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2017

(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 (cont.)	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
	10/7/2016	Pace	56.8	376	475	7.4	<2.0	<0.97	<1.6	309	9.4	<2.0	3.8 J	26.9	ND
	4/7/2017	Pace	65.3	392	442	7.1	<1.2	1.1 J	<1.0	324	14.3	<1.2	3.3	29.7	ND
10/6/2017	Pace	58.4	379	452	5.2	<1.2	0.78 J	1.5 J	290	11.5	<1.2	3.5	27.2	ND	
P-422B	10/6/2017	Pace	10	212	166	<0.37	<0.50	<0.24	<0.41	0.85 J	<0.26	<0.50	<0.33	<0.18	ND
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
	10/7/2016	Pace	43.4	372	447	1.9	<0.50	0.38 J	<0.41	43.9	2.0	<0.50	0.57 J	1.1	ND
4/7/2017	Pace	43.0	364	430	1.7	<0.50	0.44 J	<0.41	47.9	2.6	<0.50	0.73 J	1.1	ND	
10/6/2017	Pace	34.8	354	432	2.1	<0.50	0.38 J	<0.41	58.6	3.1	<0.50	0.59 J	2.5	ND	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2017

(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-424D	12/17/2012	Pace	33.8	357	409	2.5	<0.48	<1.5	<1.1	<u>91.2</u>	3.5	<0.90	1.7 J	<u>7.0</u>	ND
	2/20/2013	Pace	32.6	382	432	2.6	<0.24	0.92 J	<0.57	<u>105</u>	3.2	<0.45	2.5	<u>5.8</u>	ND
	10/3/2013	Pace	38.5	379	444	2.6	<0.39	1.1	<0.43	<u>124</u>	3.5	<0.47	3.2	<u>10.1</u>	ND
	4/7/2014	Pace	34.8	369	427	3.1	<0.50	0.98 J	0.42 J	<u>114</u>	4	<0.50	3	<u>7.6</u>	Acetone 3.1 J
	10/16/2014	Pace	40.7	358	424	3.3	<1.0	0.92 J	<0.82	<u>122</u>	4.9	<1.0	2.4	<u>7.7</u>	ND
	4/17/2015	Pace	37.7	363	409	1.8	<0.50	0.54 J	<0.41	<u>79.6</u>	2.5	<0.50	2.3	<u>2.6</u>	ND
	10/9/2015	Pace	48.6	384	449	3.5	<0.50	0.88 J	<0.41	<u>120</u>	3.8	<0.50	2.2	<u>11.4</u>	ND
	4/8/2016	Pace	40.7	369	432	2.9	<0.50	0.82 J	<0.41	<u>111</u>	3.4	<0.50	2.3	<u>5.3</u>	ND
	10/7/2016	Pace	45.1	370	485	4.1	<1.2	0.94 J	<1.0	<u>125</u>	4.3	<1.2	2.3 J	<u>9.9</u>	ND
	4/7/2017	Pace	43.2	374	422	3.6	<0.50	0.84 J	<0.41	<u>119</u>	4.0	<0.50	2.1	<u>7.6</u>	ND
10/6/2017	Pace	43.2	369	452	3.1	<0.50	1	0.51 J	<u>151</u>	4.7	<0.50	2	<u>9.4</u>	ND	
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
	10/7/2016	Pace	1.0 JB	307	294	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017	Pace	0.92 J	314	288	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
4/7/2017 DUP	Pace	0.91 J	317	284	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
10/6/2017	Pace	0.80 J	310	306	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through October 2017

(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-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
	10/7/2016	Pace	55	362	532	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017	Pace	37.0	349	413	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/27/2017	Pace	44.4	334	480	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
P-429SS	11/30/2017	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	2/1/2018	Pace	1.3 J	318	322	<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 - Through October 2017

(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 (cont.)	10/15/2014	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	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
	10/5/2017	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 - Through October 2017

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: 3/9/2018

Checked by: NDK

Date: 3/15/2018

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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	
Monthly Monitoring Locations																
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 Toluene	0.29 J 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	
		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			

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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 (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	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	
		9/12/2013	Pace	--	--	<0.22 L3	<0.40 L3	<0.20	<0.23	16.1	<0.20	<0.19	<0.18	<0.19 L3	ND	
		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			

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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 (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	9/3/2014 DUP	Pace	--	--	0.27 J	<0.34	<0.077	<0.13	14.8	0.30 J	<0.099	<0.084	0.67	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	
		5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	19.7	0.24 J	<0.15	<0.14	0.45	ND	
		6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18	0.46 J	<0.15	<0.14	0.37	ND	
		7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.48 J	<0.15	<0.14	0.64	ND	
		8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17.9	0.35 J	<0.12	<0.044	0.46	ND	
		9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17	0.47 J	<0.12	<0.044	0.42	ND	
		10/4/2016	Pace	17.0	345	0.28 J	<0.21	<0.088	<0.089	20.7	0.53	<0.12	<0.044	0.57	ND	
		11/14/2016	Pace	--	--	0.29 J	<0.21	<0.088	<0.089	16.7	0.47 J	<0.12	<0.044	0.45	ND	
		12/1/2016	Pace	--	--	0.37 J	<0.21	<0.088	<0.089	19.2	0.51	<0.12	<0.044	0.48	ND	
		1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	21.1	0.42 J	<0.12	<0.044	0.5	ND	
		2/2/2017	Pace	--	--	0.31 J	<0.21	<0.088	<0.089	22.1	0.44 J	<0.12	<0.044	0.46	ND	
		3/9/2017	Pace	--	--	0.53 J	<0.21	<0.088	<0.089	25	0.63	<0.12	<0.044	0.5	ND	
4/4/2017	Pace	18.4	339	0.32 J	<0.21	<0.088	<0.089	20.3	0.75	<0.12	<0.044	0.54	ND			
5/19/2017	Pace	--	--	0.54 J	<0.21	<0.088	<0.089	20.8	0.48 J	<0.12	<0.044	0.62	ND			
6/22/2017	Pace	--	--	0.28 J	<0.21	<0.088	<0.089	19.5	0.51	<0.12	<0.044	0.59	ND			
7/17/2017	Pace	--	--	0.58 J	<0.21	<0.088	<0.089	18.3	0.42 J	<0.12	<0.044	0.52	ND			
8/2/2017	Pace	--	--	0.33 J	<0.21	0.20 J	<0.089	24.1	0.68	<0.12	<0.044	0.71	ND			
9/7/2017	Pace	--	--	0.32 J	<1.1	<0.14	<0.18	20.6	0.51 J	<0.12	<0.11	0.51	ND			
10/3/2017	Pace	18	335	<0.32	<1.1	<0.14	<0.18	19.4	0.41 J	<0.12	<0.11	0.59	ND			
11/1/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	17	0.46 J	<0.12	<0.11	0.49	ND			
1/18/2018	Pace	--	--	0.33 J	<1.1	<0.14	<0.18	20.6	0.50 J	<0.12	<0.11	0.63	ND			
2/1/2018	Pace	--	--	0.35 J	<1.1	<0.14	<0.18	19.5	0.40 J	<0.12	<0.11	0.49	ND			

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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 After Treatment System	A. Oechsner N7548 Hwy. 67 Mayville	6/27/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.5	<0.21	<0.25	<0.12	<0.20	m&p-Xylene 0.25 JB
		7/29/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.4	<0.21	<0.25	<0.12	<0.20	ND
		8/26/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.3	<0.20	<0.19	<0.18	<0.19	ND
		9/12/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.1	<0.20	<0.19	<0.18	<0.19	ND
		10/1/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	2.4	<0.20	<0.19	<0.18	<0.19	ND
		11/7/13	Pace	--	--	<0.22	<0.40	<0.20	<0.23	1.2	<0.20	<0.19	<0.18	<0.19	Methylene Chloride 0.46 J
		12/9/13	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.74	<0.21	<0.25	<0.13	<0.20	ND
		1/9/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.84	<0.21	<0.25	<0.13	<0.20	ND
		2/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	0.73	<0.21	<0.25	<0.13	<0.20	ND
		3/11/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.6	<0.21	<0.25	<0.13	<0.20	ND
		4/25/2014	Pace	--	--	<0.50	<0.50	<0.25	<0.24	1.2	<0.21	<0.25	<0.13	<0.20	ND
		5/12/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.5	<0.15	<0.099	<0.084	<0.20	ND
		6/10/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.4	<0.15	<0.099	<0.084	<0.20	ND
		7/8/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.3	<0.15	<0.099	<0.084	<0.20	ND
		8/1/2014	Pace	--	--	<0.17	<0.34	<0.077	<0.13	1.7	<0.15	<0.099	<0.084	<0.082	ND
		10/6/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	1.5	<0.15	<0.12	<0.084	<0.082	ND
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	0.63	<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	9.9 H1	0.17 J, H1	<0.12 H1	<0.084 H1	0.35 H1	ND
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	9.9	0.21 J	<0.12	<0.084	0.28	ND
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	1.0	<0.15	<0.12	<0.084	<0.082	ND
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	1.3	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	15.6 B	333	<0.27	<0.34	<0.087	<0.17	1.6	<0.15	<0.12	<0.084	<0.082	ND
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	0.83	<0.18	<0.15	<0.14	<0.081	ND
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	1.3	<0.18	<0.15	<0.14	<0.15	Isopropylbenzene (Cumene) 0.11 J
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	2.3	<0.18	<0.15	<0.14	<0.081	ND
		8/31/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	2.1	<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	1.9 H1	<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	2.5	<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	1.6 N2	<0.19 N2	<0.32 N2	<0.21 N2	<0.23 N2	Isopropylbenzene (Cumene) 0.81 N2
		12/3/2015	Pace	--	--	<0.24	<0.23	<0.17	<0.17	1.1	<0.19	<0.32	<0.21	<0.23	ND
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	2.7	<0.18	<0.15	<0.14	<0.15	Toluene 0.26 J
		3/10/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	1.2	<0.18	<0.15	<0.14	<0.15	ND
		4/5/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	0.98	<0.18	<0.15	<0.14	<0.081	ND
5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	1.2	<0.18	<0.15	<0.14	<0.081	ND		
6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	1.6	<0.18	<0.15	<0.14	<0.081	ND		
7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	2.2	<0.18	<0.15	<0.14	<0.081	ND		
8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.9	<0.11	<0.12	<0.044	<0.098	ND		
9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.9	<0.11	<0.12	<0.044	<0.098	ND		
10/4/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.9	<0.11	<0.12	<0.044	<0.098	ND		
11/14/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.8	<0.11	<0.12	<0.044	<0.098	ND		
12/1/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.7	<0.11	<0.12	<0.044	<0.098	ND		

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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 After Treatment System (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.1	<0.11	<0.12	<0.044	<0.098	ND
		2/2/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.1	<0.11	<0.12	<0.044	<0.098	ND
		3/9/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.4	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.4	<0.11	<0.12	<0.044	<0.098	ND
		5/19/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.5	<0.11	<0.12	<0.044	<0.098	ND
		6/22/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.9	<0.11	<0.12	<0.044	<0.098	ND
		7/17/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.4	<0.11	<0.12	<0.044	<0.098	ND
		8/2/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	1.9	<0.11	<0.12	<0.044	<0.098	ND
		9/7/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.5	<0.21	<0.12	<0.11	<0.074	ND
		10/3/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	4.1	<0.21	<0.12	<0.11	<0.074	ND
		11/1/2017	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.5	<0.21	<0.12	<0.11	<0.074	ND
		1/18/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.1	<0.21	<0.12	<0.11	<0.074	ND
2/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.3	<0.21	<0.12	<0.11	<0.074	ND		
Semi-annual Monitoring Locations															
PW-19	Antonioni W2831 Zion Church Rd. Mayville	6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	0.30 J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	45.1	372	<0.31	<0.13	<0.072	<0.16	<0.08	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	40.2	339	<0.31	<0.13	<0.072	<0.16	0.55	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	38.3	355	<0.22	<0.40	<0.20	<0.23	0.82	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	37.9	375	<0.50	<0.50	<0.25	<0.24	0.65	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	43.1	341	<0.27	<0.34	<0.087	<0.17	0.63 J	<0.15	<0.12	<0.084	<0.082	ND
		6/3/2015	Pace	41.1	352	<0.34	<0.64	<0.19	<0.17	0.63	<0.18	<0.15	<0.14	<0.15	ND
		10/6/2015	Pace	47.7	340	<0.88	<0.20	<0.15	<0.17	0.73	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	42.6	335	<0.34	<0.64	<0.19	<0.17	0.59	<0.18	<0.15	<0.14	<0.081	ND
		10/4/2016	Pace	45.7	349	<0.18	<0.21	<0.088	<0.089	0.64	<0.11	<0.12	<0.044	<0.098	ND
		4/4/2017	Pace	45.7	353	<0.18	<0.21	<0.088	<0.089	0.55	<0.11	<0.12	<0.044	<0.098	ND
10/3/2017	Pace	55.9	360	<0.32	<1.1	<0.14	<0.18	0.45	<0.21	<0.12	<0.11	<0.074	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	0.22 JB	<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	33	310	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	45.6	323	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	29.3	340	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
10/1/2013	Pace	22.3	312	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND		
4/25/2014	Pace	27.7	385	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND		

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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-20 (cont.)	Sellnow N7627 Hwy. 67 Mayville	10/6/2014	Pace	28.4	315	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		4/17/2015	Pace	62.8	365	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	26.4	327	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
		4/5/2016	Pace	23.0	330	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND	
		10/4/2016	Pace	27.2	325	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
		4/6/2017	Pace	30.4	333	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
		10/5/2017	Pace	22.5	327	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND	
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	0.25 JB	<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	160	320	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND	
		10/5/2012	Pace	135	358	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	108	385	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/1/2013	Pace	107	426	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND	
		4/25/2014	Pace	94.4	383	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND	
		10/6/2014	Pace	99.3	405	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		4/17/2015	Pace	108	379	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	100	424	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
		4/5/2016	Pace	66.7	353	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND	
		10/4/2016	Pace	76.7	391	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
		4/4/2017	Pace	83.6	411	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
10/3/2017	Pace	103	412	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND			
PW-27 (Abandoned)	All Line Construction N7477 Hwy. 67 Mayville	2/24/2009	NLS	--	--	<0.79	<0.31	0.91	0.36 J	120	3.9	<0.15	2.9	12	ND	
			CT	--	--	3.0	1.1 B	1.0	0.47 J	110	4.4	<0.30	2.8	9.4	ND	
		3/11/2009	NLS	--	--	<0.95	<0.16	0.70 J	0.26 J	100	3.2	<0.20	2.4	8.3	ND	
			CT	--	--	2.4	<0.22	0.81	0.41 J	89	4.1	<0.30	2.7	7.1	ND	
		6/30/2009	Siemens	--	--	2.55	<0.40	0.91 J	0.45 J	115	3.71	<0.30	2.83	8.26	ND	
		2/10/2011	Siemens	32.3	386	1.98 J	<0.40	0.74 J	<0.40	101	3.45	<0.30	2.31	6.48	ND	
		5/2/2012	Siemens	26.4	334	1.42 J	<0.40	0.42 J	<0.40	53.6	1.81	<0.30	1.19 J	4.02	ND	
		12/17/2012	Pace	39.9	349	2.3	<0.13	0.69	0.17 J	86.2	2.8	<0.16	1.2	9.1	Methyl-tert-butyl ether 1,2,4 Trimethylbenzene	0.092 J 0.052 J
		2/20/2013	Pace	36.7	360	2.3	<0.13	0.77	<0.16	8Z	3.3	<0.16	1.9	7.1	ND	

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

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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	0.18 J	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	<0.22	<0.21	<0.24	0.24 J	<0.27	<0.30	<0.24	<0.11	ND
		6/30/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	0.19 J	<0.28	<0.20	<0.25	<0.19	ND
		7/14/2010	NLS	--	--	<1.0	<0.16	<0.14	<0.11	0.28 J	<0.11	<0.10	<0.12	<0.13	ND
		4/6/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	0.39 J	<0.30	<0.11	<0.28	<0.20	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	0.30 J	<0.050	<0.050	<0.050	<0.032	ND
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	0.33 J	<0.30	<0.15	<0.25	<0.032	ND
		4/11/2012	TA	17	280	<0.50	<0.30	<0.25	<0.15	0.45 J	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	15.3	316	<0.31	<0.13	<0.072	<0.16	0.74	<0.14	<0.16	<0.11	<0.16	ND
		4/3/2013	Pace	16.1	339	<0.31	<0.13	<0.072	<0.16	1	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	18.0	353	<0.22	<0.40	<0.20	<0.23	1.4	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	18.3	374	<0.17	<0.34	<0.077	<0.13	1.2	<0.15	<0.099	<0.084	<0.20	ND
		10/6/2014	Pace	26.2	331	<0.27	<0.34	<0.087	<0.17	1.8	<0.15	<0.12	<0.084	<0.082	ND
		4/17/2015	Pace	21.7	344	<0.27	<0.34	<0.087	<0.17	2.0	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	24.4	365	<0.88	<0.20	<0.15	<0.17	2.5	<0.18	<0.13	<0.19	<0.10	ND
		4/5/2016	Pace	24.1	362	<0.34	<0.64	<0.19	<0.17	2.2	<0.18	<0.15	<0.14	<0.081	ND
10/4/2016	Pace	27.2	354	<0.18	<0.21	<0.088	<0.089	2.1	<0.11	<0.12	<0.044	<0.098	ND		
4/4/2017	Pace	27.4	354	<0.18	<0.21	<0.088	<0.089	2.3	<0.11	<0.12	<0.044	<0.098	ND		
10/3/2017	Pace	26.8	352	<0.32	<1.1	<0.14	<0.18	2.6	<0.21	<0.12	<0.11	<0.074	ND		
PW-32	J. Oechsner W2983 Zion Church Rd. Mayville	4/7/2009	NLS	--	--	<0.95	<0.16	<0.25	<0.18	0.12 J	<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	0.14 J	<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 0.050 J
		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	41	300	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	ND
		10/5/2012	Pace	40.2	349	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	39.8	478	<0.31	<0.13	<0.072	<0.16	0.27 J	<0.14	<0.16	<0.11	<0.16	ND
		10/1/2013	Pace	40.5	362	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND
		4/25/2014	Pace	40.7	374	<0.50	<0.50	<0.25	<0.24	0.30 J	<0.21	<0.25	<0.13	<0.20	ND
		10/6/2014	Pace	41.2	355	<0.27	<0.34	<0.087	<0.17	0.33 J	<0.15	<0.12	<0.084	<0.082	ND
		4/24/2015	Pace	35.4	334	<0.27	<0.34	<0.087	<0.17	0.16 J	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	37.1	355	<0.88	<0.20	<0.15	<0.17	0.53	<0.18	<0.13	<0.19	<0.10	ND

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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-32 (cont.)	J. Oechsner W2983 Zion Church Rd. Mayville	4/5/2016	Pace	39.0	348	<0.34	<0.64	<0.19	<0.17	0.32 J	<0.18	<0.15	<0.14	<0.081	ND	
		10/4/2016	Pace	42.3	345	<0.18	<0.21	<0.088	<0.089	0.39 J	<0.11	<0.12	<0.044	<0.098	ND	
		4/4/2017	Pace	41.6	340	<0.18	<0.21	<0.088	<0.089	0.26 J	<0.11	<0.12	<0.044	<0.098	ND	
		10/3/2017	Pace	45.1	358	<0.32	<1.1	<0.14	<0.18	0.31	<0.21	<0.12	<0.11	<0.074	ND	
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	0.57 J	<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	Toluene	0.22 J
		10/6/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	<0.30	<0.30	<0.15	<0.25	<0.032	Toluene	0.35 J
		4/11/2012	TA	<3.1	310	<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	338	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	2.4 J	268	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/1/2013	Pace	3.2 J	349	<0.22	<0.40	<0.20	<0.23	<0.12	<0.20	<0.19	<0.18	<0.19	ND	
		4/25/2014	Pace	2.9 J	361	<0.50	<0.50	<0.25	<0.24	<0.23	<0.21	<0.25	<0.13	<0.20	ND	
		10/6/2014	Pace	3.2 J	335	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		4/24/2015	Pace	2.9 JB	338	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	2.7 J	341	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
		4/5/2016	Pace	3.0 J	344	<0.34	<0.64	<0.19	<0.17	<0.17	<0.18	<0.15	<0.14	<0.081	ND	
10/4/2016	Pace	1.6 J	340	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND			
4/4/2017	Pace	1.5 J	339	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND			
10/3/2017	Pace	2.5	334	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND			
Annual Monitoring Locations																
PW-42	Steinbach W2772 Zion Church Rd. Mayville	10/5/2012	Pace	<2.0	324	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/2/2013	Pace	2.2 J	320	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/6/2014	Pace	3.4 J	327	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	3.0 J	342	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
		10/4/2016	Pace	1.6 J	330	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
		10/3/2017	Pace	2.3	328	<0.32	<1.1	<0.14	<0.018	<0.073	<0.21	<0.12	<0.11	<0.074	ND	
PW-43	Hinze W2698 Zion Church Rd. Mayville	10/5/2012	Pace	11.4	215	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		4/3/2013	Pace	10.8	211	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND	
		10/6/2014	Pace	12.9	226	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND	
		10/6/2015	Pace	15	223	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND	
		10/4/2016	Pace	12.5	218	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND	
		10/3/2017	Pace	12.2	225	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND	

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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-44	Christian N7686 Ekren Rd. Mayville	10/5/2012	Pace	<2.0	291	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		4/2/2013	Pace	2.3 J	316	<0.31	<0.13	<0.072	<0.16	<0.080	<0.14	<0.16	<0.11	<0.16	ND
		10/6/2014	Pace	2.9 J	319	<0.27	<0.34	<0.087	<0.17	<0.11	<0.15	<0.12	<0.084	<0.082	ND
		10/6/2015	Pace	2.7 J	342	<0.88	<0.20	<0.15	<0.17	<0.16	<0.18	<0.13	<0.19	<0.10	ND
		10/4/2016	Pace	1.2 J	326	<0.18	<0.21	<0.088	<0.089	<0.085	<0.11	<0.12	<0.044	<0.098	ND
		10/3/2017	Pace	1.6 J	332	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
Non-Routine Monitoring Locations															
PW-1	Church View Farms J. Qualmann N7110 Hwy. V Horicon	4/7/2009	NLS	34	240	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
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 0.36
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	33	320	<0.95	<0.16	<0.25	<0.18	<0.10	<0.28	<0.20	<0.25	<0.19	ND
			CT	--	--	<0.40	0.3 J	<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	13	310	<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

Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

(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-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
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	0.40 J	<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	3.5	<0.25	<0.19	1,4 Dichlorobenzene 0.27 J
			CT	--	--	<0.40	<0.22	<0.21	<0.24	<0.21	<0.27	3.3	<0.24	<0.11	1,4 Dichlorobenzene 0.22 J
		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)				250	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

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Table 3. LGRL VOC Investigation Water Supply Well Sample Results - Through February 2018

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: JSN

Date: 4/27/2009

Last revision by: JSN

Date: 3/15/2018

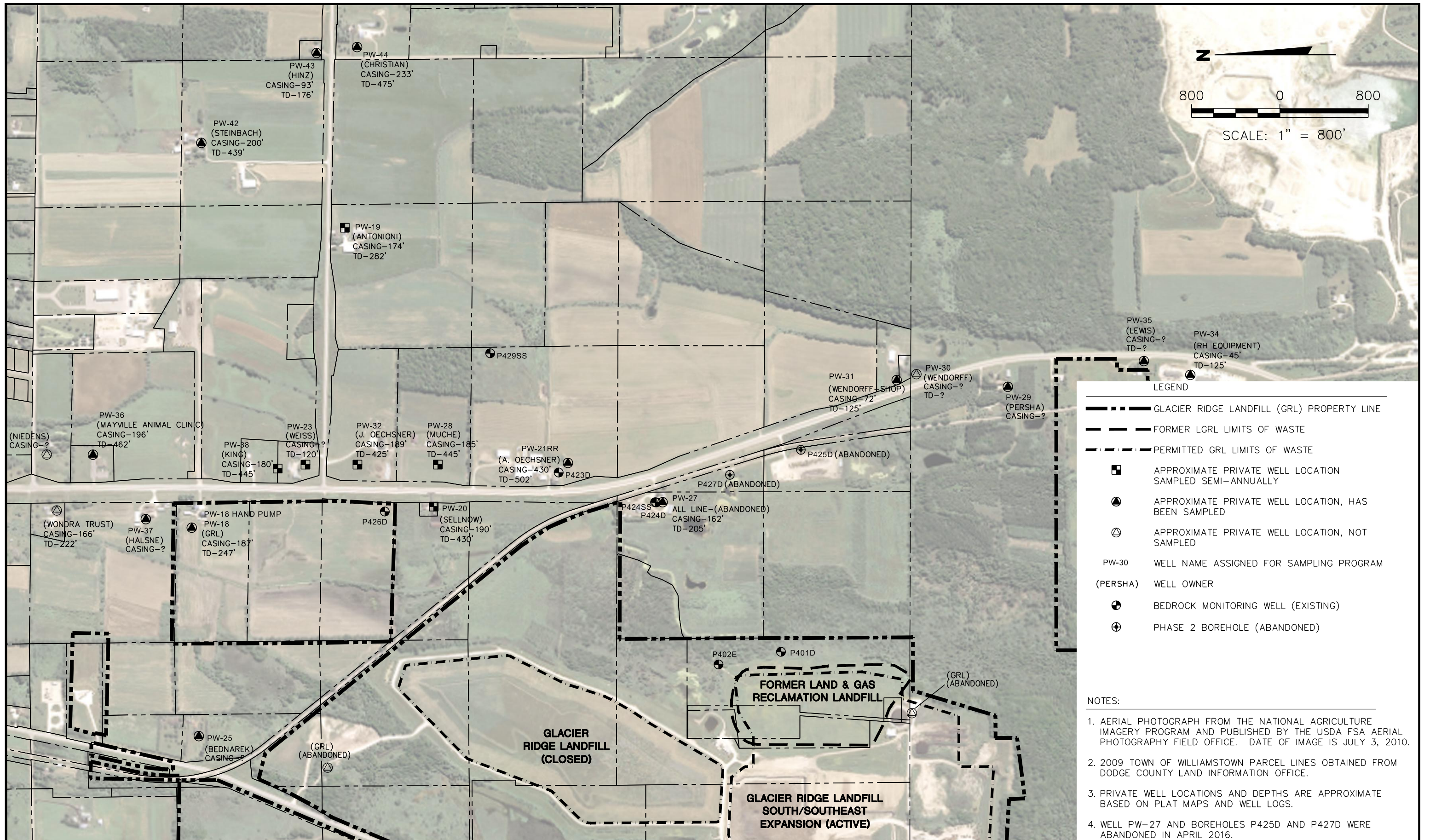
Checked by: NDK

Date: 3/15/2018

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FIGURES

- 1 Bedrock Monitoring Well Locations
- 2 Cross Section Location Map
- 3A Cross Section A-A'
- 3B Cross Section B-B'
- 4 Dolomite Bedrock Groundwater Elevation and Potentiometric Surface Contours
- 5 VOCs in Bedrock Groundwater – October 2017
- 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 LGRL LIMITS OF WASTE
- · - · - PERMITTED GRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION SAMPLED SEMI-ANNUALLY
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- ⊕ BEDROCK MONITORING WELL (EXISTING)
- ⊕ PHASE 2 BOREHOLE (ABANDONED)

- 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.

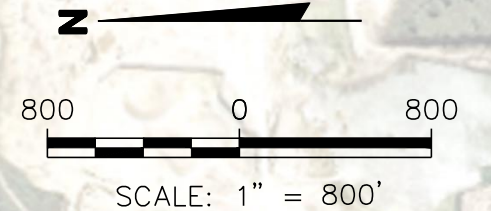
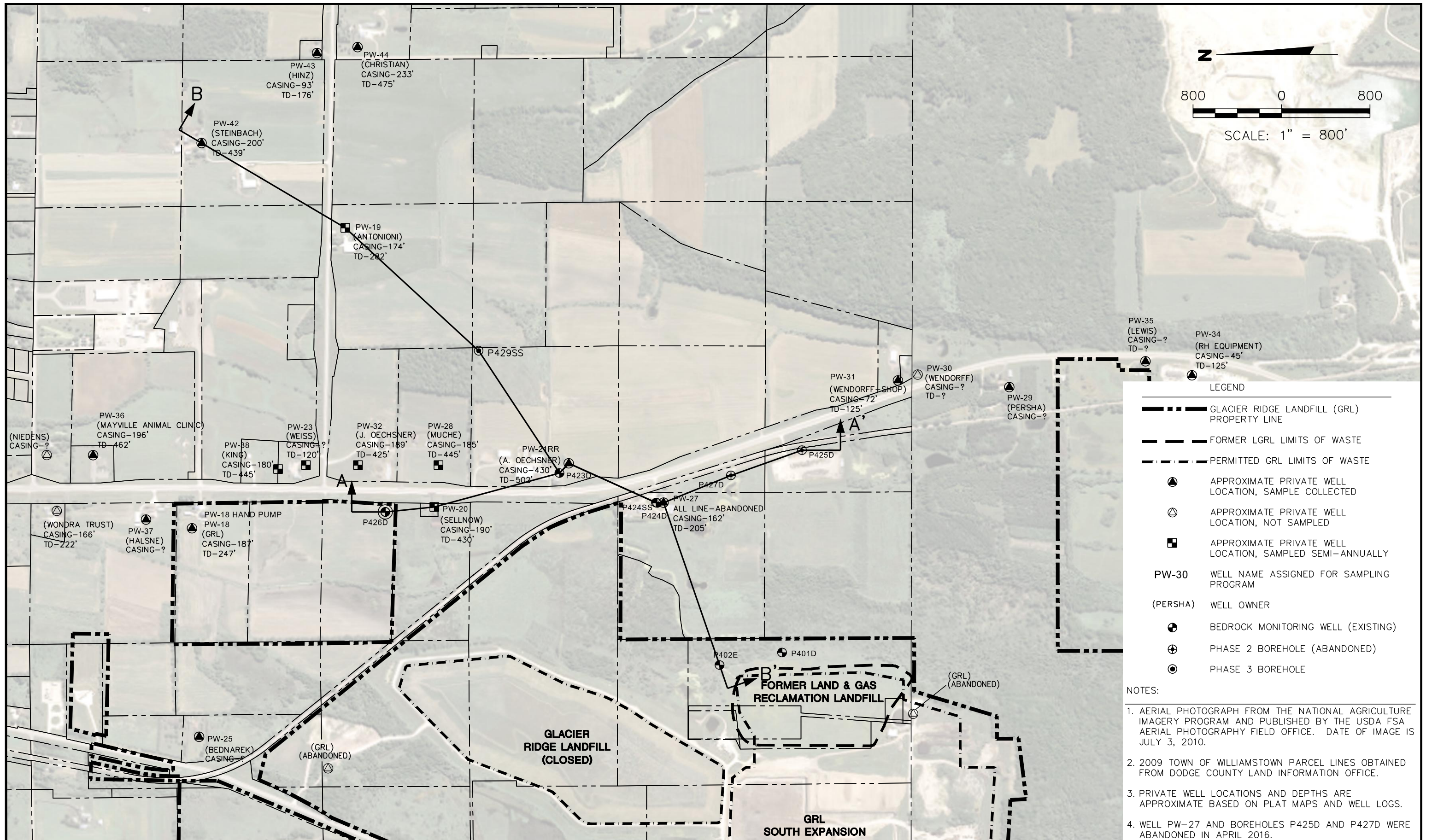
PROJECT NO.	3744	DRAWN BY:	KP/BJM
DRAWN:	09/13/11	CHECKED BY:	EO/SC
REVISED:	03/14/18	APPROVED BY:	

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

BEDROCK MONITORING WELL LOCATIONS	FIGURE
	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 3 BOREHOLE

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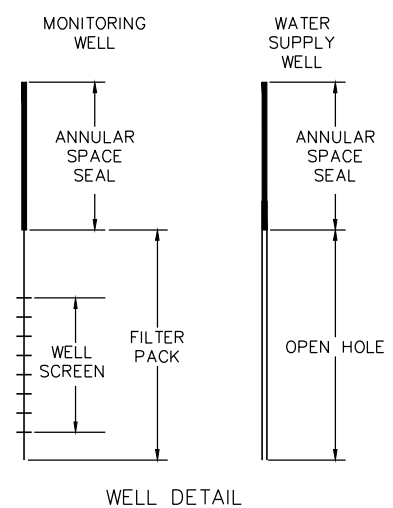
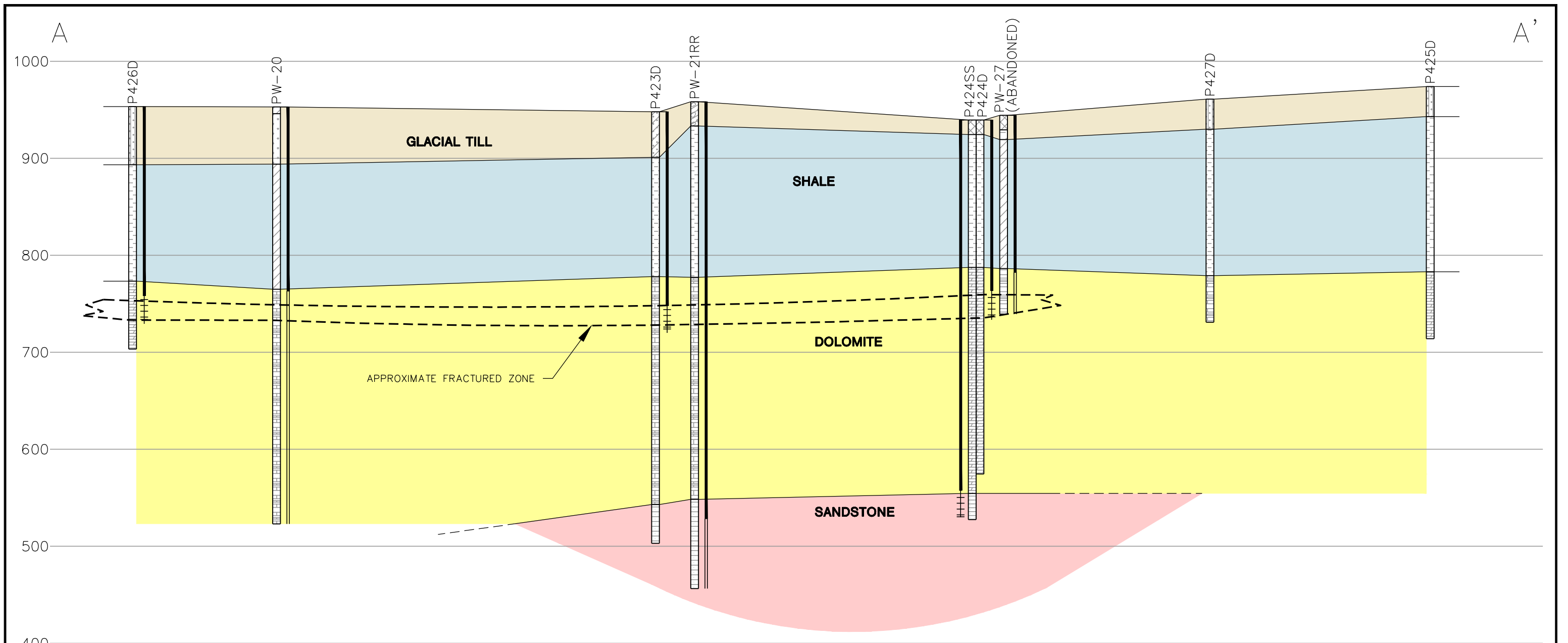
PROJECT NO.	3744	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	EO
REVISED:	03/14/18	APPROVED BY:	

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

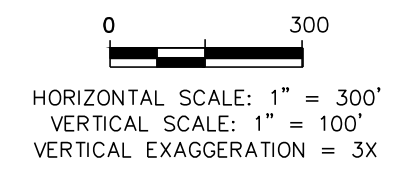
CLIENT	Advanced Disposal
	ADVANCED DISPOSAL SERVICES
	GLACIER RIDGE LANDFILL, LLC.

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

FIGURE	CROSS SECTION LOCATION MAP
	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

[Symbol]	SILTY SAND
[Symbol]	SHALE
[Symbol]	DOLOMITE
[Symbol]	LIMESTONE
[Symbol]	LEAN CLAY
[Symbol]	SAND, WELL GRADED
[Symbol]	SAND WITH GRAVEL
[Symbol]	SANDSTONE
[Symbol]	CLAYEY GRAVEL
[Symbol]	FILL

PROJECT NO.	3744
DRAWN:	04/01/16
REVISED:	04/05/18

DRAWN BY:	KP
CHECKED BY:	EO
APPROVED BY:	

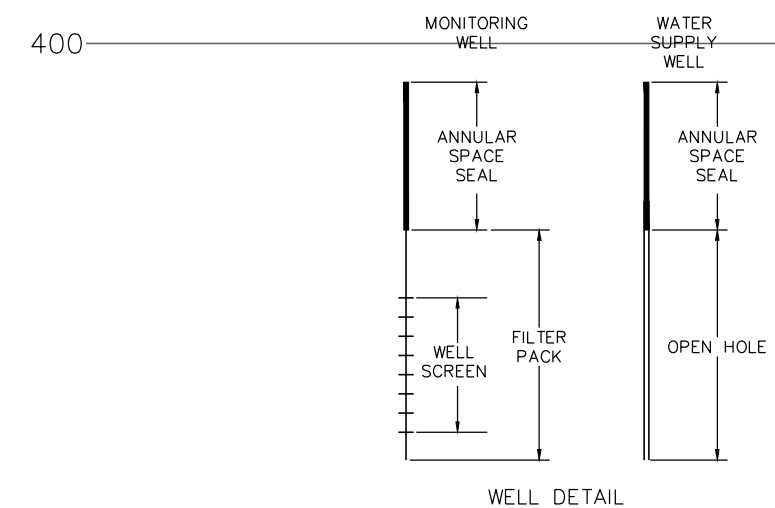
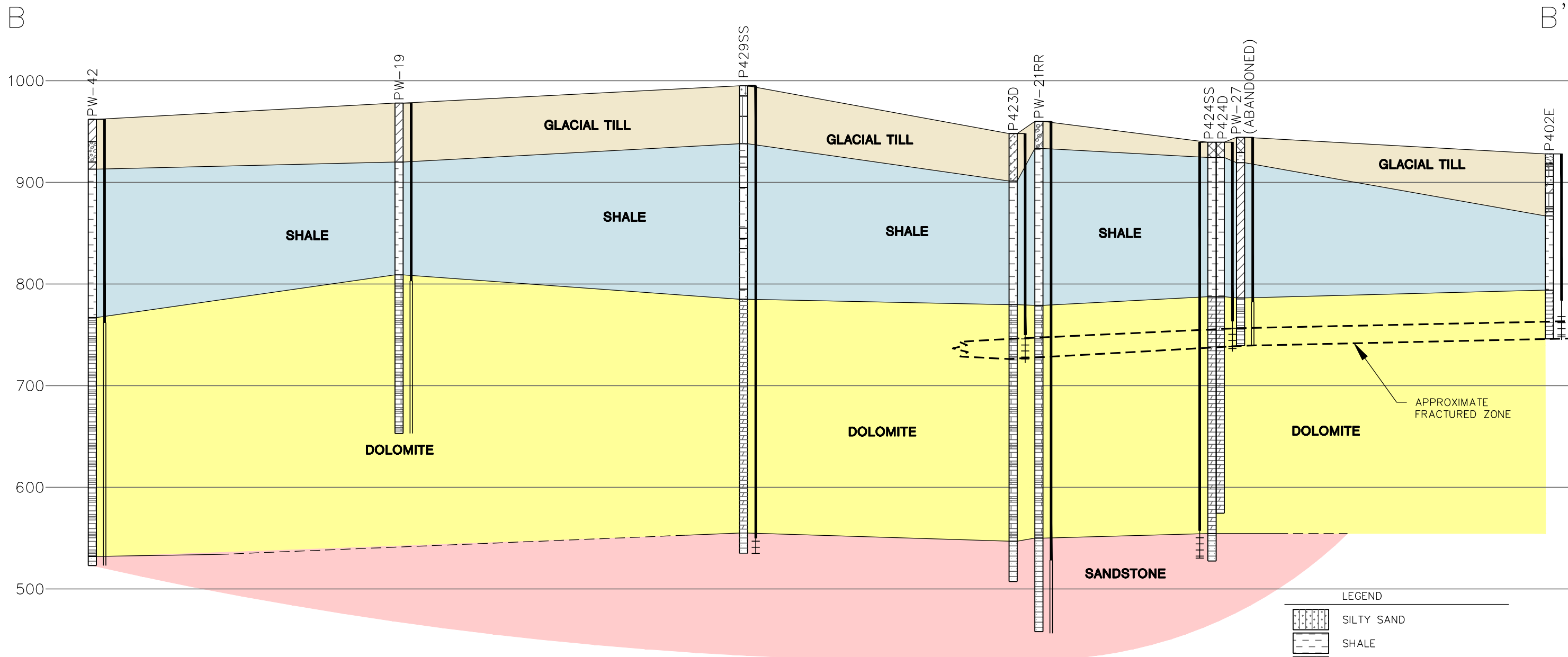
SCS ENGINEERS
 2830 DAIRY DRIVE MADISON, WI 53718-6751
 PHONE: (608) 224-2830

CLIENT **Advanced Disposal**
 ADVANCED DISPOSAL SERVICES
 GLACIER RIDGE LANDFILL, LLC.

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

CROSS SECTION A-A'
 FIGURE 3A

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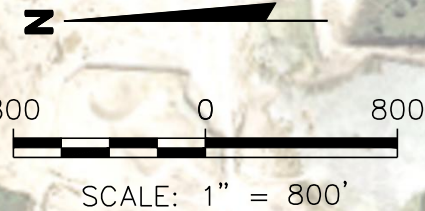
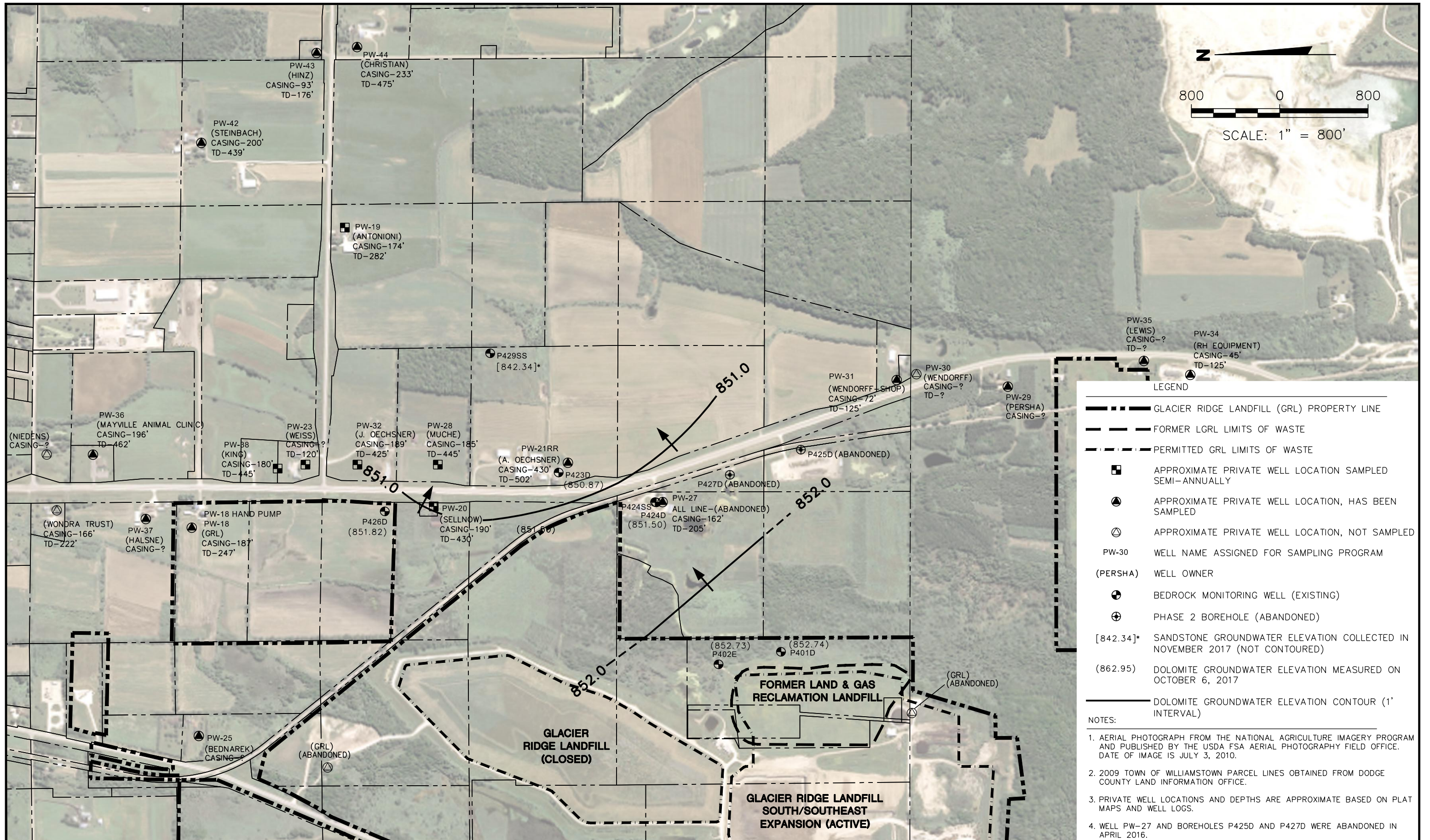
- NOTES:**
1. APPROXIMATE FRACTURED ZONE BASED ON BOREHOLE LOGGING AND PACKER PUMPING TEST IN MONITORING WELL BOREHOLES AND PW-27. THE ZONE IS INFERRED AT PW-21RR, WHICH WAS NOT TESTED.
 2. PW-19 WELL CONSTRUCTION REPORT INDICATES THIS WELL WAS ORIGINALLY DRILLED TO A DEPTH OF 282 FEET. DAN ANTONIONI, THE PRESENT OWNER, STATED ON 02/27/2017 THAT THE WELL WAS DEEPEMED TO 325 FEET IN 1962.
 3. THE PORTION OF P423D EXTENDING BELOW THE MONITORING WELL SCREEN AND FILTER PACK WAS BACKFILLED WITH BENTONITE CHIPS PRIOR TO WELL CONSTRUCTION.

0 500
 HORIZONTAL SCALE: 1" = 500'
 VERTICAL SCALE: 1" = 100'
 VERTICAL EXAGGERATION = 5X

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

PROJECT NO. 3744	DRAWN BY: BJM	 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 B-B'	FIGURE
DRAWN: 03/10/17	CHECKED BY: NK						3B
REVISED: 04/05/18	APPROVED BY:						
ENGINEER							

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- LEGEND**
- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
 - FORMER LGRL LIMITS OF WASTE
 - PERMITTED GRL LIMITS OF WASTE
 - APPROXIMATE PRIVATE WELL LOCATION SAMPLED SEMI-ANNUALLY
 - APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED
 - APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
 - PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
 - (PERSHA) WELL OWNER
 - BEDROCK MONITORING WELL (EXISTING)
 - PHASE 2 BOREHOLE (ABANDONED)
 - [842.34]* SANDSTONE GROUNDWATER ELEVATION COLLECTED IN NOVEMBER 2017 (NOT CONTOURED)
 - (862.95) DOLOMITE GROUNDWATER ELEVATION MEASURED ON OCTOBER 6, 2017
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (1' INTERVAL)
- 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/BJM
DRAWN:	09/13/11	CHECKED BY:	NK
REVISED:	04/05/18	APPROVED BY:	

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

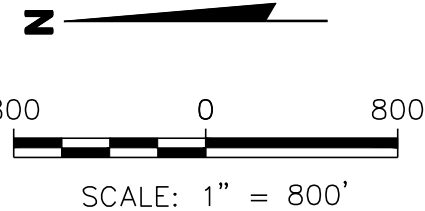
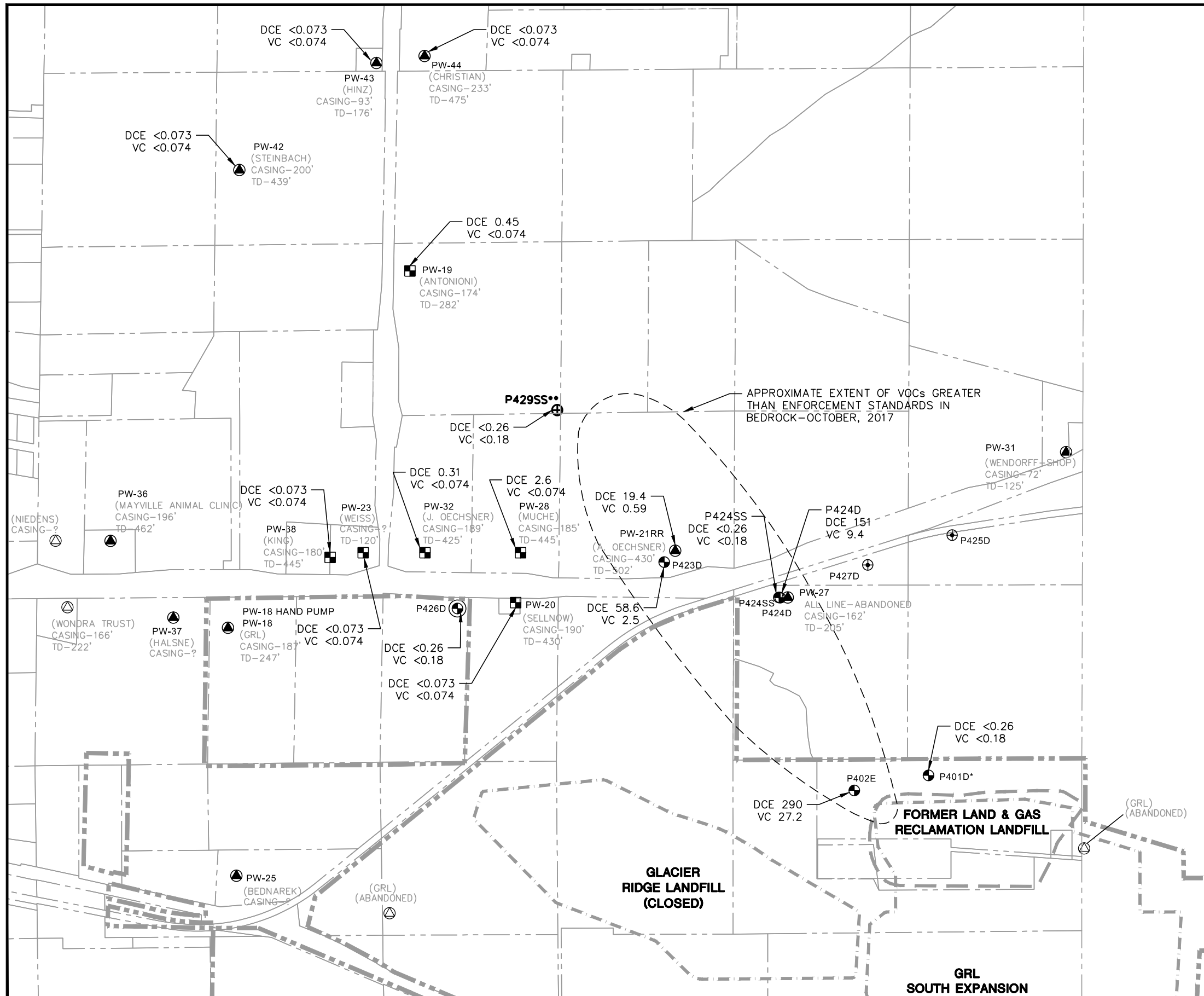
CLIENT ADVANCED DISPOSAL SERVICES
 GLACIER RIDGE LANDFILL, LLC.

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

DOLOMITE BEDROCK GROUNDWATER
 ELEVATIONS AND POTENTIOMETRIC
 SURFACE CONTOURS

FIGURE
 4

I:\3744\Drawings-General\Pr-bedrock wells 2013.dwg, 4/5/2018 8:49:29 AM



- LEGEND**
- GLACIER RIDGE LANDFILL (VGRL) PROPERTY LINE
 - EXISTING/APPROVED LIMITS OF WASTE
 - PERMITTED 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
 - PROPOSED MONITORING WELL
 - DCE** CIS-1,2-DICHLOROETHYLENE ($\mu\text{g/L}$) (PAL=7; ES=70)
 - VC** VINYL CHLORIDE ($\mu\text{g/L}$) (PAL=0.02; ES=0.2)
 - **** MEASURED IN NOVEMBER 2017
 - *** MEASURED IN DECEMBER 2017

- RE 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/BJM	 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	VOCs IN BEDROCK GROUNDWATER OCTOBER 2017	FIGURE 5
DRAWN: 04/01/16	CHECKED BY: NK			SITE			
REVISED: 03/20/18	APPROVED BY:						

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

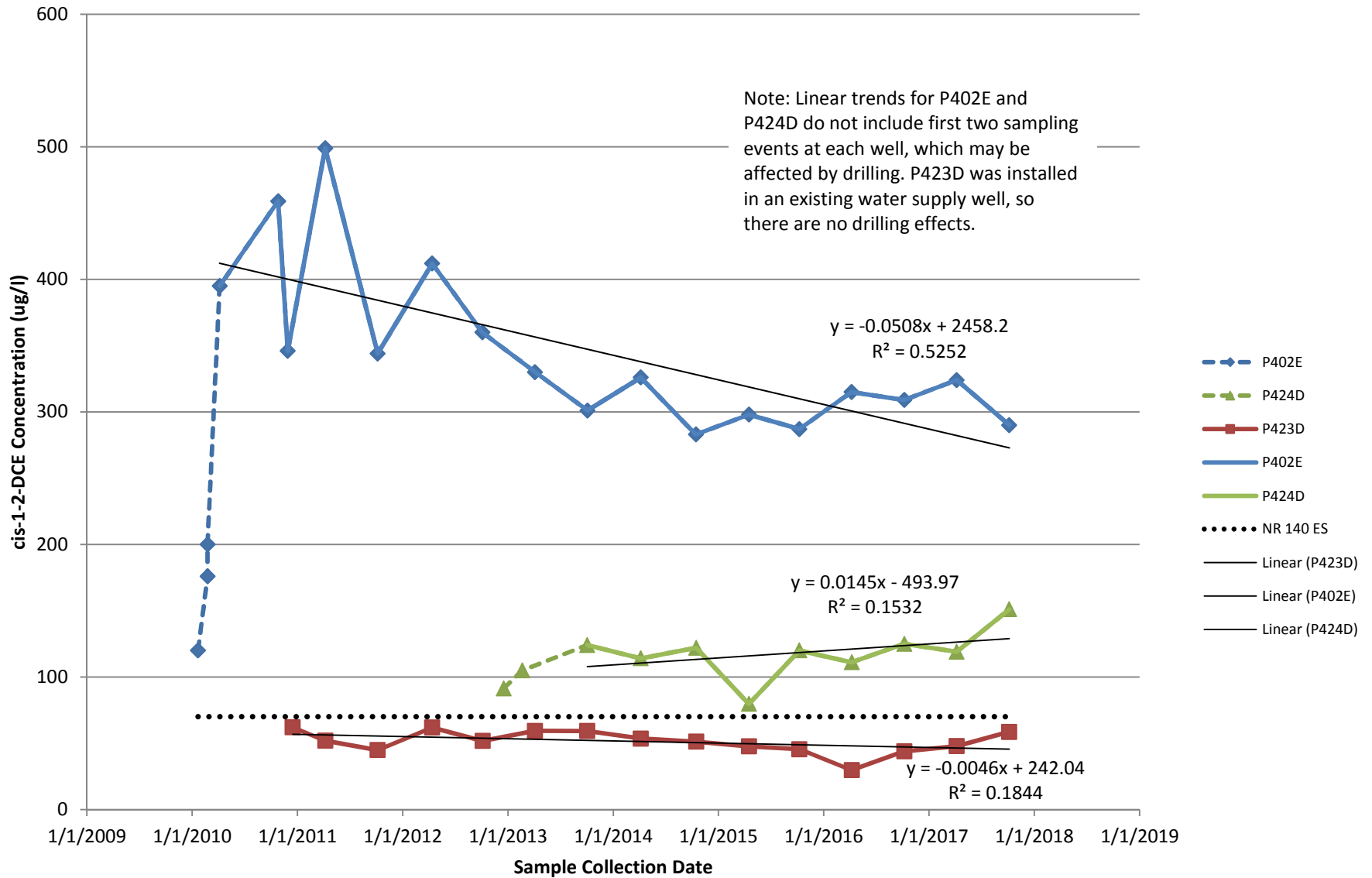


Figure 7. Vinyl Chloride Concentration Trends in Bedrock Monitoring Wells

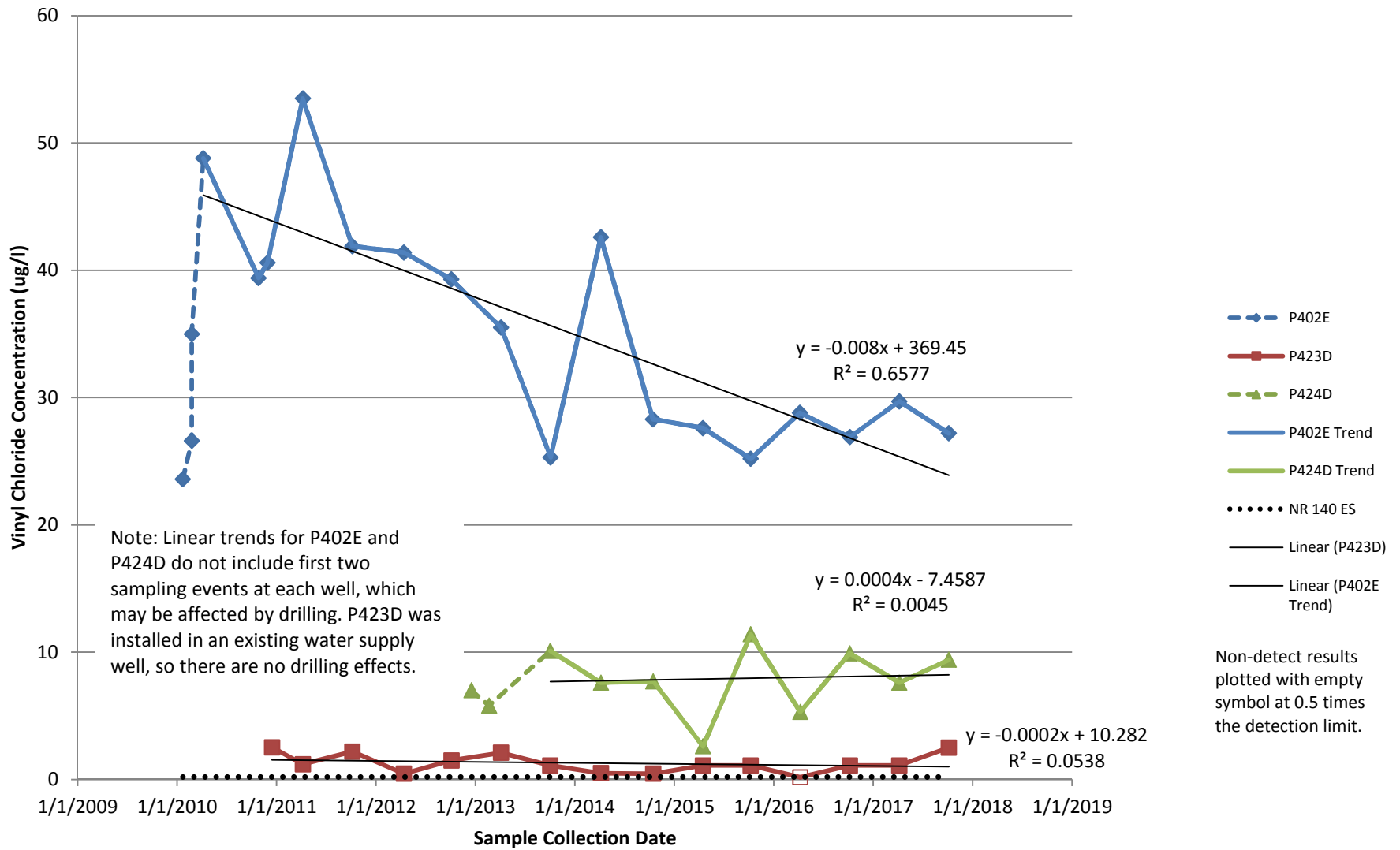


Figure 8. Cis-1,2-Dichloroethylene Trends in Water Supply Wells Downgradient from LGRL

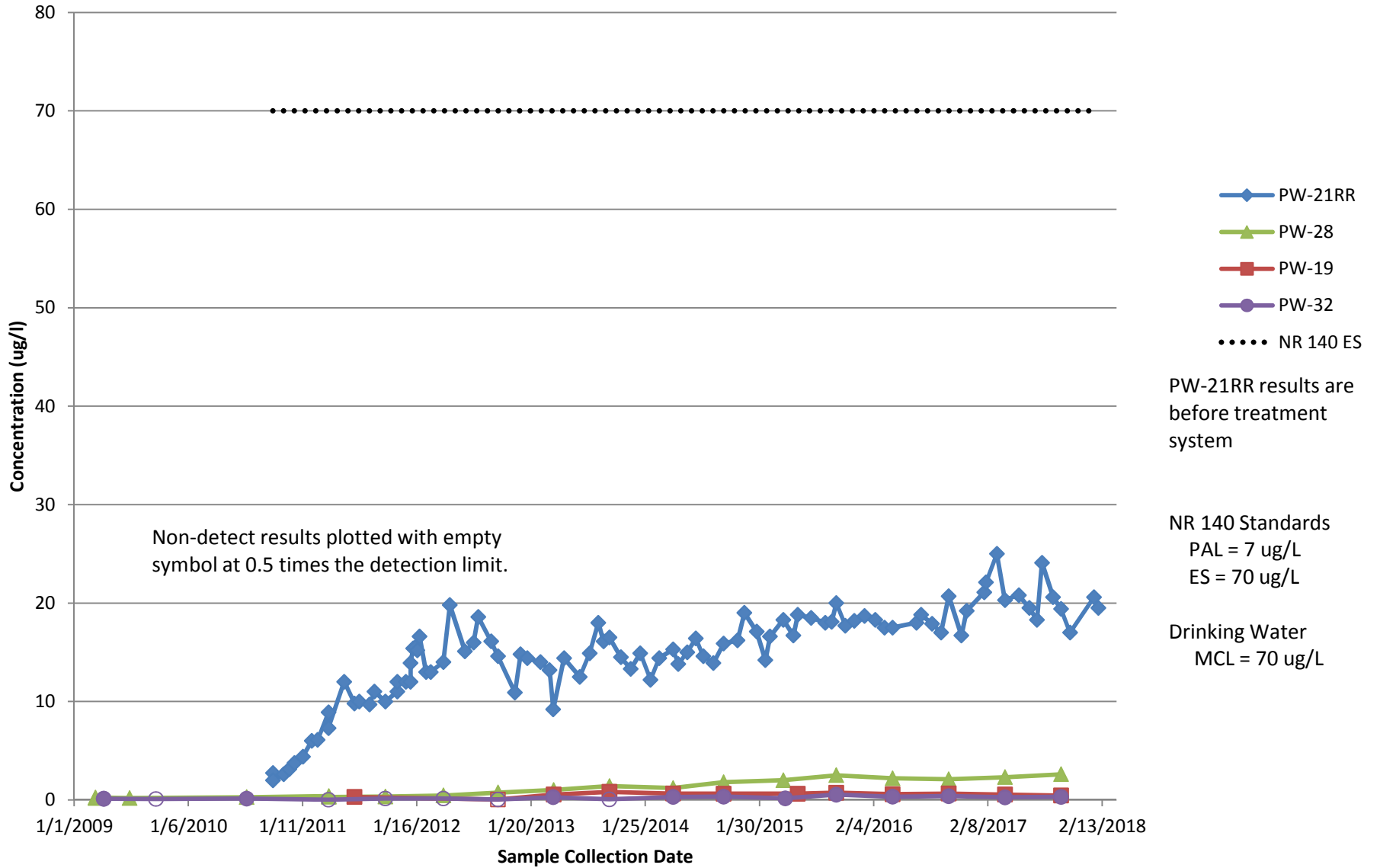
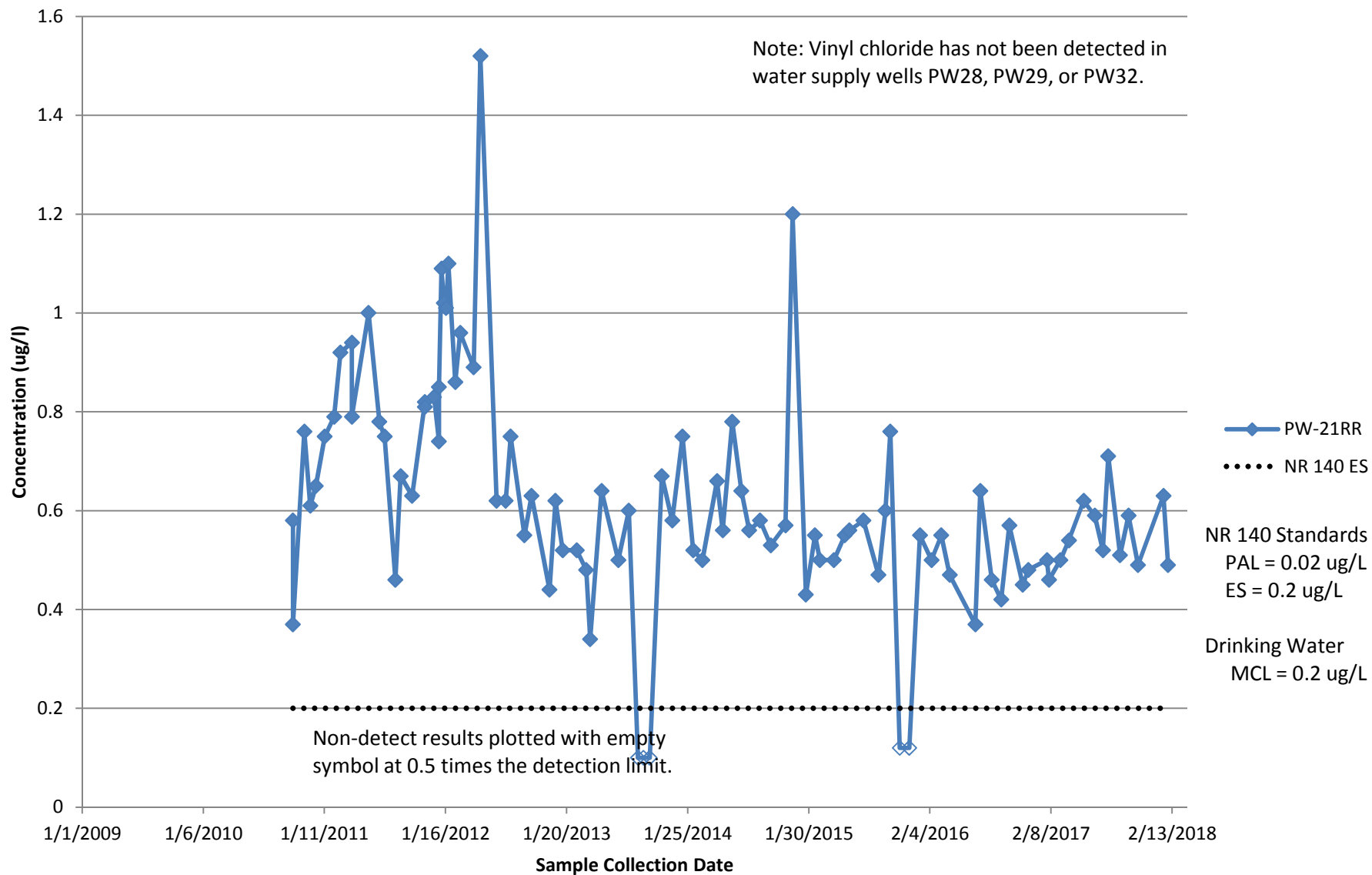


Figure 9. Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)



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 P429SS	
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Steffes Badger Well Drilling		Date Drilling Started 1/9/2017		Date Drilling Completed 10/18/2017	
Drilling Method rotary (air)					
WI Unique Well No. VY486	DNR Well ID No.	Common Well Name P429SS	Final Static Water Level 158.0 Feet MSL	Surface Elevation 997.22 Feet MSL	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, 2,381,938 E S/C/N SE 1/4 of NE 1/4 of Section 35, T 12 N, R 16 E			Lat 43° 28' 5.5" Long 88° 32' 29.60"		Local Grid Location 4205.9 Feet <input checked="" type="checkbox"/> N 8245.46 Feet <input checked="" type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID 114052290		County Dodge	County Code 14	Civil Town/City/ or Village Town of Williamstown	

Sample Number and Type	Length Alt. & 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			1	SANDY SILT, fine to coarse, brown sand (glacial till).	ML			0.2	M									
			2															
			3															
			4															
			5															
			6															
			7															
			8															
			9															
			10															
			11	SILT, tan.	ML													
			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 53718
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 **P429SS**

Use only as an attachment to Form 4400-122.

Page 5 of 19

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	
10			91		Rock			0.2	W					
			92											
			93											
			94											
			95											
			96											
			97											
			98											
			99											
			100	Poorly graded sand with silt and gravel, gray, (Maquoketa Shale bedrock).										
11			101		Rock			0.1	W					
			102											
			103											
			104											
			105											
			106											
			107											
			108											
			109											
			110											
			111											
			112											
			113											
			114											
			115											

Boring Number **P429SS**

Use only as an attachment to Form 4400-122.

Page 6 of 19

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	
12			116 117 118 119 120 121 122 123 124				0.1		W					
13			125 126 127 128 129 130 131 132 133 134	Rock			0.7		W					
14			135 136 137 138 139 140				0.2		W					

Boring Number **P429SS**

Use only as an attachment to Form 4400-122.

Page 7 of 19

Sample				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)	Blow Counts	Depth In Feet						Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
15			141	Poorly graded sand with gravel, brown, (Maquoketa Shale bedrock).	Rock			2.0	W					
			142											
			143											
			144											
			145											
			146											
			147											
			148											
			149											
			150											
16			150	Silt with poorly graded sand (f-c), gray, (Maquoketa Shale bedrock).	Rock			0.3	W					
			151											
			152											
			153											
			154											
			155											
			156											
			157											
			158											
			159											
			160	Silt with gravel and sand, gray, (Maquoketa Shale bedrock).	Rock									
			161											
			162											
			163											
			164											
			165											

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Land and Gas Reclamation Landfill	Local Grid Location of Well 4205.74 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 8245.46 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name P429SS
Facility License, Permit or Monitoring No. 01118	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. VY486
Facility ID 114052290	St. Plane 537268.4 ft. N. 2381938.0 ft. E. S/C/N	Date Well Installed 10 / 18 / 2017
Type of Well Well Code 12 / PZ	Section Location of Waste/Source NE 1/4 of SW 1/4 of Sec. 35, T. 12 N, R. 16 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Dan Steffes Badger Well Drilling
Distance from Waste/Source 3,500 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation -- 999.02 ft. MSL
- B. Well casing, top elevation -- 999.24 ft. MSL
- C. Land surface elevation -- 997.22 ft. MSL
- D. Surface seal, bottom -- 917 ft. MSL or -- 80 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

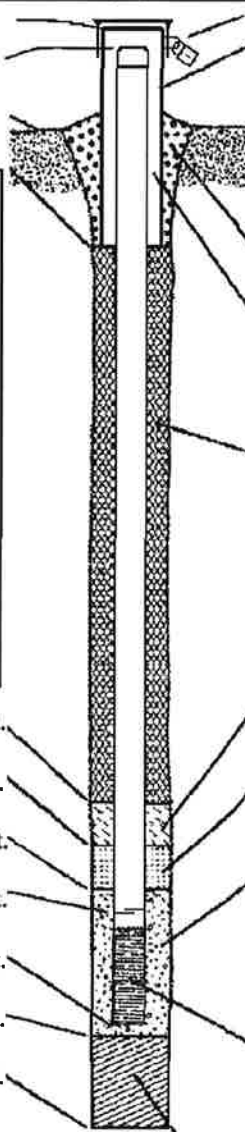
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
 Badger Drilling shop well



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 6.0 in.
 - b. Length: 80 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - c. 10 Lbs/gal mud weight Bentonite slurry 31
 - d. _____ % Bentonite Bentonite-cement grout 50
 - e. 79.2 Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. Red Flint # 15
 - b. Volume added 0.5 ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. Red Flint # 40
 - b. Volume added 3.75 ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Environmental Manufacturing Inc.
 - c. Slot size: 0.020 in.
 - d. Slotted length: 14.5 ft.
- 11. Backfill material (below filter pack): None 14
Other

- E. Bentonite seal, top -- 568 ft. MSL or -- 429 ft.
- F. Fine sand, top -- 564 ft. MSL or -- 433 ft.
- G. Filter pack, top -- 561 ft. MSL or -- 436 ft.
- H. Screen joint, top -- 552 ft. MSL or -- 445 ft.
- I. Well bottom -- 537 ft. MSL or -- 460 ft.
- J. Filter pack, bottom -- 537 ft. MSL or -- 460 ft.
- K. Borehole, bottom -- 537 ft. MSL or -- 460 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 Oelkers Firm SCS ENGINEERS - Eric Oelkers

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 Land and Gas Reclamation Landfill	County Name Dodge	Well Name P429SS
Facility License, Permit or Monitoring Number 01118	County Code 14	Wis. Unique Well Number VY486
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____

3. Time spent developing well _____ 300 min.

4. Depth of well (from top of well casing) _____ 158.4 ft.

5. Inside diameter of well _____ 1.94 in.

6. Volume of water in filter pack and well casing _____ 51.0 gal.

7. Volume of water removed from well _____ 510.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____ N/A

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 158.12 ft.	_____ 158.88 ft.
Date	b. <u>10</u> / <u>20</u> / <u>2017</u>	<u>10</u> / <u>26</u> / <u>2017</u>
Time	c. _____ 14:30 <input checked="" type="checkbox"/> p.m.	_____ 17:02 <input checked="" type="checkbox"/> p.m.

12. Sediment in well bottom _____ inches _____ 12.0 inches

13. Water clarity
 Clear 1 0 Clear 2 0
 Turbid 1 5 Turbid 2 5
 (Describe) (Describe)

Clear	Clear

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

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name: Oelkers

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:

Depths are measured from the 6" steel casing.
PVC casing riser was added after development.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Jacob Last Name: Margelofsky

Facility/Firm: Advanced Disposal Services

Street: N7296 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: 

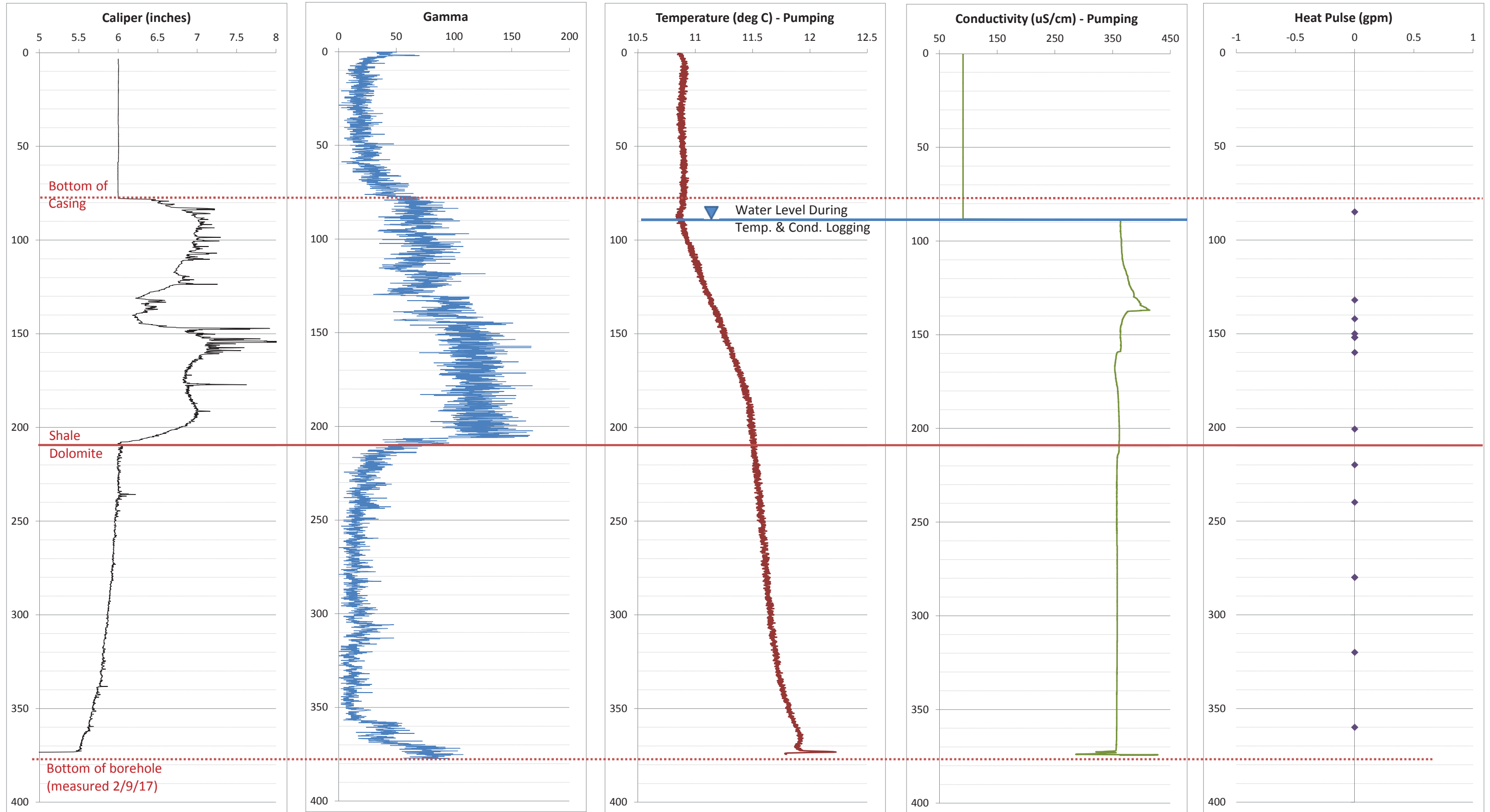
Print Name: Eric Oelkers

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

ATTACHMENT B

P429D Borehole Logging Results

P429D Borehole Logging



ATTACHMENT C

Laboratory Data Reports
(October 2016 through February 2018)

November 04, 2016

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

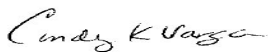
RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between October 06, 2016 and November 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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 WELLS

Pace Project No.: 40139613

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139613001	MW-1B	Water	10/05/16 15:30	10/06/16 07:30
40139786001	P-424D	Water	10/07/16 10:15	10/08/16 09:30
40139786002	P-424SS	Water	10/07/16 11:30	10/08/16 09:30
40139786003	P-423D	Water	10/07/16 12:00	10/08/16 09:30
40139786004	P-426D	Water	10/07/16 12:40	10/08/16 09:30
40139786005	P-402E	Water	10/07/16 13:30	10/08/16 09:30
40139786006	P-422B	Water	10/07/16 14:10	10/08/16 09:30
40139786007	P-401D	Water	10/03/16 00:00	10/08/16 09:30
40139613009	P-402E	Water	10/03/16 00:00	11/03/16 09:16
40139613010	P-422B	Water	10/03/16 00:00	11/03/16 09:16
40139613011	P-423B	Water	10/03/16 00:00	11/03/16 09:16
40139613012	P-424D	Water	10/03/16 00:00	11/03/16 09:16
40139613013	P-424SS	Water	10/03/16 00:00	11/03/16 09:16
40139613014	P-426D	Water	10/03/16 00:00	11/03/16 09:16
40139613015	MW-1B	Water	10/03/16 00:00	11/03/16 09:16

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40139613001	MW-1B	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	JMN	1	PASI-G
40139786001	P-424D	EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	46	PASI-G
			JLJ	6	PASI-G
40139786002	P-424SS	EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	46	PASI-G
40139786003	P-423D		JLJ	6	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
40139786004	P-426D	EPA 8260	SMT	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40139786005	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	46	PASI-G
			JLJ	6	PASI-G
		EPA 300.0	JMN	1	PASI-G
40139786006	P-422B	EPA 310.2	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	46	PASI-G
			JLJ	6	PASI-G
40139786007	P-401D	EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40139613009	P-402E		JLJ	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40139613010	P-422B		JLJ	1	PASI-G
40139613011	P-423B		JLJ	1	PASI-G
40139613012	P-424D		JLJ	1	PASI-G
40139613013	P-424SS		JLJ	1	PASI-G
40139613014	P-426D		JLJ	1	PASI-G
40139613015	MW-1B		JLJ	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: MW-1B **Lab ID: 40139613001** Collected: 10/05/16 15:30 Received: 10/06/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	373	mg/L	2.0	0.15	1		10/11/16 21:53		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/11/16 17:57	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/11/16 17:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/11/16 17:57	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/11/16 17:57	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/11/16 17:57	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/11/16 17:57	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/11/16 17:57	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/11/16 17:57	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/11/16 17:57	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/11/16 17:57	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/11/16 17:57	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/11/16 17:57	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/11/16 17:57	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/11/16 17:57	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/11/16 17:57	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/11/16 17:57	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/11/16 17:57	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/11/16 17:57	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/11/16 17:57	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/11/16 17:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/11/16 17:57	75-69-4	
Vinyl chloride	2.4	ug/L	1.0	0.18	1		10/11/16 17:57	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 17:57	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/11/16 17:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/11/16 17:57	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 17:57	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: MW-1B **Lab ID: 40139613001** Collected: 10/05/16 15:30 Received: 10/06/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/11/16 17:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/11/16 17:57	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/11/16 17:57	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/11/16 17:57	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.57	Std. Units			1		10/05/16 15:30		
Field Specific Conductance	852	umhos/cm			1		10/05/16 15:30		
Turbidity	N	NTU			1		10/05/16 15:30		
Apparent Color	N	no units			1		10/05/16 15:30		
Odor	N	no units			1		10/05/16 15:30		
Temperature, Water (C)	12.6	deg C			1		10/05/16 15:30		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	109	mg/L	10.0	2.5	5		10/14/16 19:08	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	200	mg/L	20.0	8.6	1		10/13/16 11:23		

Sample: P-424D **Lab ID: 40139786001** Collected: 10/07/16 10:15 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	485	mg/L	2.0	0.15	1		10/12/16 02:15		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		10/12/16 21:42	79-00-5	
1,1-Dichloroethane	0.94J	ug/L	2.5	0.60	2.5		10/12/16 21:42	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		10/12/16 21:42	75-35-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		10/12/16 21:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		10/12/16 21:42	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	95-50-1	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		10/12/16 21:42	107-06-2	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		10/12/16 21:42	78-87-5	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	106-46-7	
2-Butanone (MEK)	<7.4	ug/L	50.0	7.4	2.5		10/12/16 21:42	78-93-3	
Acetone	<7.4	ug/L	50.0	7.4	2.5		10/12/16 21:42	67-64-1	
Benzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	71-43-2	L3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-424D **Lab ID: 40139786001** Collected: 10/07/16 10:15 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		10/12/16 21:42	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		10/12/16 21:42	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	108-90-7	
Chloroethane	4.1	ug/L	2.5	0.94	2.5		10/12/16 21:42	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		10/12/16 21:42	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		10/12/16 21:42	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		10/12/16 21:42	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		10/12/16 21:42	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		10/12/16 21:42	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		10/12/16 21:42	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		10/12/16 21:42	109-99-9	
Toluene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	108-88-3	
Trichloroethene	2.3J	ug/L	2.5	0.83	2.5		10/12/16 21:42	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		10/12/16 21:42	75-69-4	
Vinyl chloride	9.9	ug/L	2.5	0.44	2.5		10/12/16 21:42	75-01-4	
cis-1,2-Dichloroethene	125	ug/L	2.5	0.64	2.5		10/12/16 21:42	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		10/12/16 21:42	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		10/12/16 21:42	95-47-6	
trans-1,2-Dichloroethene	4.3	ug/L	2.5	0.64	2.5		10/12/16 21:42	156-60-5	
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		10/12/16 21:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2.5		10/12/16 21:42	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		2.5		10/12/16 21:42	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2.5		10/12/16 21:42	2037-26-5	
Field Data Analytical Method:									
Field pH	7.31	Std. Units			1		10/07/16 10:15		
Field Specific Conductance	799	umhos/cm			1		10/07/16 10:15		
Turbidity	N	NTU			1		10/07/16 10:15		
Apparent Color	N	no units			1		10/07/16 10:15		
Odor	N	no units			1		10/07/16 10:15		
Temperature, Water (C)	15.4	deg C			1		10/07/16 10:15		
300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	45.1	mg/L	2.0	0.50	1		10/18/16 19:21	16887-00-6	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-424D Lab ID: 40139786001 Collected: 10/07/16 10:15 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	370	mg/L	20.0	8.6	1		10/18/16 12:29		

Sample: P-424SS Lab ID: 40139786002 Collected: 10/07/16 11:30 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	294	mg/L	2.0	0.15	1		10/12/16 12:25		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/16 18:54	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/16 18:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/16 18:54	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/16 18:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/16 18:54	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/16 18:54	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/16 18:54	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/12/16 18:54	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/12/16 18:54	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	71-43-2	L3
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/16 18:54	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/12/16 18:54	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/16 18:54	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/16 18:54	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/16 18:54	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/16 18:54	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/16 18:54	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/12/16 18:54	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/16 18:54	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/12/16 18:54	109-99-9	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-424SS **Lab ID: 40139786002** Collected: 10/07/16 11:30 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/16 18:54	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/16 18:54	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/16 18:54	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/16 18:54	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/16 18:54	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/16 18:54	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/16 18:54	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/16 18:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/12/16 18:54	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/12/16 18:54	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		10/12/16 18:54	2037-26-5	

Field Data Analytical Method:									
Field pH	7.62	Std. Units			1		10/07/16 11:30		
Field Specific Conductance	468	umhos/cm			1		10/07/16 11:30		
Turbidity	N	NTU			1		10/07/16 11:30		
Apparent Color	N	no units			1		10/07/16 11:30		
Odor	N	no units			1		10/07/16 11:30		
Temperature, Water (C)	14.6	deg C			1		10/07/16 11:30		

300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	1.0J	mg/L	2.0	0.50	1		10/18/16 19:32	16887-00-6	B
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	307	mg/L	20.0	8.6	1		10/18/16 12:30		

Sample: P-423D **Lab ID: 40139786003** Collected: 10/07/16 12:00 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Total Hardness by 2340B, Dissolved	447	mg/L	2.0	0.15	1		10/12/16 12:28		
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/16 21:00	79-00-5	
1,1-Dichloroethane	0.38J	ug/L	1.0	0.24	1		10/12/16 21:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/16 21:00	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/16 21:00	96-12-8	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-423D Lab ID: 40139786003 Collected: 10/07/16 12:00 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/16 21:00	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/16 21:00	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/16 21:00	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/12/16 21:00	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/12/16 21:00	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	71-43-2	L3
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/16 21:00	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/12/16 21:00	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	108-90-7	
Chloroethane	1.9	ug/L	1.0	0.37	1		10/12/16 21:00	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/16 21:00	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/16 21:00	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/16 21:00	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/16 21:00	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/12/16 21:00	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/16 21:00	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/12/16 21:00	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	108-88-3	
Trichloroethene	0.57J	ug/L	1.0	0.33	1		10/12/16 21:00	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/16 21:00	75-69-4	
Vinyl chloride	1.1	ug/L	1.0	0.18	1		10/12/16 21:00	75-01-4	
cis-1,2-Dichloroethene	43.9	ug/L	1.0	0.26	1		10/12/16 21:00	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/16 21:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/16 21:00	95-47-6	
trans-1,2-Dichloroethene	2.0	ug/L	1.0	0.26	1		10/12/16 21:00	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/16 21:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/12/16 21:00	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/12/16 21:00	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/12/16 21:00	2037-26-5	

Field Data

Analytical Method:

Field pH	7.35	Std. Units			1		10/07/16 12:00
Field Specific Conductance	720	umhos/cm			1		10/07/16 12:00

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-423D **Lab ID: 40139786003** Collected: 10/07/16 12:00 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Turbidity	N	NTU			1		10/07/16 12:00		
Apparent Color	N	no units			1		10/07/16 12:00		
Odor	N	no units			1		10/07/16 12:00		
Temperature, Water (C)	15.9	deg C			1		10/07/16 12:00		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	43.4	mg/L	2.0	0.50	1		10/18/16 19:43	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	372	mg/L	20.0	8.6	1		10/18/16 12:30		

Sample: P-426D **Lab ID: 40139786004** Collected: 10/07/16 12:40 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	532	mg/L	2.0	0.15	1		10/14/16 17:05		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/16 19:14	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/16 19:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/16 19:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/16 19:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/16 19:14	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/16 19:14	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/16 19:14	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/12/16 19:14	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/12/16 19:14	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	71-43-2	L3
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/16 19:14	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/12/16 19:14	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/16 19:14	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/16 19:14	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	74-87-3	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-426D **Lab ID: 40139786004** Collected: 10/07/16 12:40 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/16 19:14	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/16 19:14	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/16 19:14	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/12/16 19:14	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/16 19:14	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/12/16 19:14	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/16 19:14	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/16 19:14	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/16 19:14	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/16 19:14	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/16 19:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:14	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/16 19:14	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/16 19:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/12/16 19:14	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/12/16 19:14	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/12/16 19:14	2037-26-5	
Field Data Analytical Method:									
Field pH	7.39	Std. Units			1		10/07/16 12:40		
Field Specific Conductance	797	umhos/cm			1		10/07/16 12:40		
Turbidity	N	NTU			1		10/07/16 12:40		
Apparent Color	N	no units			1		10/07/16 12:40		
Odor	N	no units			1		10/07/16 12:40		
Temperature, Water (C)	15.0	deg C			1		10/07/16 12:40		
300.0 IC Anions 28 Days, Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	55.0	mg/L	10.0	2.5	5		10/19/16 12:50	16887-00-6	
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	362	mg/L	20.0	8.6	1		10/18/16 12:33		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-402E Lab ID: 40139786005 Collected: 10/07/16 13:30 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	475	mg/L	2.0	0.15	1		10/14/16 17:07		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	71-55-6	
1,1,2-Trichloroethane	<0.79	ug/L	4.0	0.79	4		10/12/16 22:03	79-00-5	
1,1-Dichloroethane	<0.97	ug/L	4.0	0.97	4		10/12/16 22:03	75-34-3	
1,1-Dichloroethene	<1.6	ug/L	4.0	1.6	4		10/12/16 22:03	75-35-4	
1,2-Dibromo-3-chloropropane	<8.7	ug/L	20.0	8.7	4		10/12/16 22:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.71	ug/L	4.0	0.71	4		10/12/16 22:03	106-93-4	
1,2-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	95-50-1	
1,2-Dichloroethane	<0.67	ug/L	4.0	0.67	4		10/12/16 22:03	107-06-2	
1,2-Dichloropropane	<0.93	ug/L	4.0	0.93	4		10/12/16 22:03	78-87-5	
1,3-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	541-73-1	
1,4-Dichlorobenzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	106-46-7	
2-Butanone (MEK)	<11.9	ug/L	80.0	11.9	4		10/12/16 22:03	78-93-3	
Acetone	<11.8	ug/L	80.0	11.8	4		10/12/16 22:03	67-64-1	
Benzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	71-43-2	L3
Bromodichloromethane	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	75-25-2	
Bromomethane	<9.7	ug/L	20.0	9.7	4		10/12/16 22:03	74-83-9	
Carbon disulfide	<2.5	ug/L	20.0	2.5	4		10/12/16 22:03	75-15-0	
Carbon tetrachloride	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	56-23-5	
Chlorobenzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	108-90-7	
Chloroethane	7.4	ug/L	4.0	1.5	4		10/12/16 22:03	75-00-3	
Chloroform	<10.0	ug/L	20.0	10.0	4		10/12/16 22:03	67-66-3	
Chloromethane	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	74-87-3	
Dibromochloromethane	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	124-48-1	
Dibromomethane	<1.7	ug/L	4.0	1.7	4		10/12/16 22:03	74-95-3	
Dichlorodifluoromethane	<0.90	ug/L	4.0	0.90	4		10/12/16 22:03	75-71-8	
Ethylbenzene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	100-41-4	
Methyl-tert-butyl ether	<0.70	ug/L	4.0	0.70	4		10/12/16 22:03	1634-04-4	
Methylene Chloride	<0.93	ug/L	4.0	0.93	4		10/12/16 22:03	75-09-2	
Naphthalene	<10.0	ug/L	20.0	10.0	4		10/12/16 22:03	91-20-3	
Styrene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	100-42-5	
Tetrachloroethene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	127-18-4	
Tetrahydrofuran	<8.1	ug/L	20.0	8.1	4		10/12/16 22:03	109-99-9	
Toluene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	108-88-3	
Trichloroethene	3.8J	ug/L	4.0	1.3	4		10/12/16 22:03	79-01-6	
Trichlorofluoromethane	<0.74	ug/L	4.0	0.74	4		10/12/16 22:03	75-69-4	
Vinyl chloride	26.9	ug/L	4.0	0.70	4		10/12/16 22:03	75-01-4	
cis-1,2-Dichloroethene	309	ug/L	4.0	1.0	4		10/12/16 22:03	156-59-2	
cis-1,3-Dichloropropene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	10061-01-5	
m&p-Xylene	<4.0	ug/L	8.0	4.0	4		10/12/16 22:03	179601-23-1	
o-Xylene	<2.0	ug/L	4.0	2.0	4		10/12/16 22:03	95-47-6	
trans-1,2-Dichloroethene	9.4	ug/L	4.0	1.0	4		10/12/16 22:03	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-402E **Lab ID: 40139786005** Collected: 10/07/16 13:30 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.92	ug/L	4.0	0.92	4		10/12/16 22:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		4		10/12/16 22:03	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		4		10/12/16 22:03	1868-53-7	
Toluene-d8 (S)	103	%	70-130		4		10/12/16 22:03	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.32	Std. Units			1		10/07/16 13:30		
Field Specific Conductance	721	umhos/cm			1		10/07/16 13:30		
Turbidity	N	NTU			1		10/07/16 13:30		
Apparent Color	N	no units			1		10/07/16 13:30		
Odor	N	no units			1		10/07/16 13:30		
Temperature, Water (C)	14.3	deg C			1		10/07/16 13:30		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	56.8	mg/L	10.0	2.5	5		10/19/16 13:01	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	376	mg/L	100	43.2	5		10/18/16 12:34		

Sample: P-422B **Lab ID: 40139786006** Collected: 10/07/16 14:10 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	165	mg/L	2.0	0.15	1		10/14/16 17:09		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/12/16 19:35	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/12/16 19:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/12/16 19:35	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/12/16 19:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/12/16 19:35	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/12/16 19:35	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/12/16 19:35	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/12/16 19:35	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/12/16 19:35	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	71-43-2	L3

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-422B **Lab ID: 40139786006** Collected: 10/07/16 14:10 Received: 10/08/16 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/12/16 19:35	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/12/16 19:35	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/12/16 19:35	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/12/16 19:35	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/12/16 19:35	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/12/16 19:35	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/12/16 19:35	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/12/16 19:35	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/12/16 19:35	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/12/16 19:35	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/12/16 19:35	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/12/16 19:35	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/12/16 19:35	75-01-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.26	1		10/12/16 19:35	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/12/16 19:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/12/16 19:35	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/12/16 19:35	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/12/16 19:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/12/16 19:35	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/12/16 19:35	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/12/16 19:35	2037-26-5	
Field Data Analytical Method:									
Field pH	7.85	Std. Units			1		10/07/16 14:10		
Field Specific Conductance	387	umhos/cm			1		10/07/16 14:10		
Turbidity	N	NTU			1		10/07/16 14:10		
Apparent Color	N	no units			1		10/07/16 14:10		
Odor	N	no units			1		10/07/16 14:10		
Temperature, Water (C)	14.0	deg C			1		10/07/16 14:10		
300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	18.9	mg/L	2.0	0.50	1		10/18/16 20:14	16887-00-6	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

Sample: P-422B		Lab ID: 40139786006	Collected: 10/07/16 14:10	Received: 10/08/16 09:30	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO ₃ , Dissolved	199	mg/L	20.0	8.6	1		10/18/16 12:35		

Sample: P-401D		Lab ID: 40139786007	Collected: 10/03/16 00:00	Received: 10/08/16 09:30	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data	Analytical Method:								
Static Water Level	851.95	feet			1		10/03/16 00:00		

Sample: P-402E		Lab ID: 40139613009	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data	Analytical Method:								
Static Water Level	851.58	feet			1		10/03/16 00:00		

Sample: P-422B		Lab ID: 40139613010	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data	Analytical Method:								
Static Water Level	927.99	feet			1		10/03/16 00:00		

Sample: P-423B		Lab ID: 40139613011	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data	Analytical Method:								
Static Water Level	850.39	feet			1		10/03/16 00:00		

Sample: P-424D		Lab ID: 40139613012	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data	Analytical Method:								
Static Water Level	851.00	feet			1		10/03/16 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Sample: P-424SS	Lab ID: 40139613013	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water
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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	850.58	feet			1		10/03/16 00:00		

Sample: P-426D	Lab ID: 40139613014	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water
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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	850.40	feet			1		10/03/16 00:00		

Sample: MW-1B	Lab ID: 40139613015	Collected: 10/03/16 00:00	Received: 11/03/16 09:16	Matrix: Water
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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	926.18	feet			1		10/03/16 00:00		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch: 237782	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40139613001	

METHOD BLANK: 1408910 Matrix: Water

Associated Lab Samples: 40139613001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	0.15J	2.0	10/11/16 21:48	

LABORATORY CONTROL SAMPLE: 1408911

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: 1408912 1408913

Parameter	Units	40139613001 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	mg/L	373			397	397				0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch: 237793

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40139786001, 40139786002, 40139786003

METHOD BLANK: 1408951

Matrix: Water

Associated Lab Samples: 40139786001, 40139786002, 40139786003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	10/12/16 12:16	

LABORATORY CONTROL SAMPLE: 1408952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		29.9			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408953 1408954

Parameter	Units	40139749001 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	mg/L	981000 ug/L			995	1010				1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch: 238166

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40139786004, 40139786005, 40139786006

METHOD BLANK: 1410892

Matrix: Water

Associated Lab Samples: 40139786004, 40139786005, 40139786006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	10/14/16 16:50	

LABORATORY CONTROL SAMPLE: 1410893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		33.0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410894 1410895

Parameter	Units	40139965001 Result	MS Spike Conc.	MSD Spike Conc.	1410894		1410895		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Hardness by 2340B, Dissolved	mg/L	1510000 ug/L			1630	1630				0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch:	237505	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40139613001		

METHOD BLANK: 1407482 Matrix: Water
Associated Lab Samples: 40139613001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/11/16 09:00	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/11/16 09:00	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/11/16 09:00	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/11/16 09:00	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/11/16 09:00	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/11/16 09:00	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/11/16 09:00	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/11/16 09:00	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/11/16 09:00	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/11/16 09:00	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/11/16 09:00	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/11/16 09:00	
Acetone	ug/L	<3.0	20.0	10/11/16 09:00	
Benzene	ug/L	<0.50	1.0	10/11/16 09:00	
Bromodichloromethane	ug/L	<0.50	1.0	10/11/16 09:00	
Bromoform	ug/L	<0.50	1.0	10/11/16 09:00	
Bromomethane	ug/L	<2.4	5.0	10/11/16 09:00	
Carbon disulfide	ug/L	<0.61	5.0	10/11/16 09:00	
Carbon tetrachloride	ug/L	<0.50	1.0	10/11/16 09:00	
Chlorobenzene	ug/L	<0.50	1.0	10/11/16 09:00	
Chloroethane	ug/L	<0.37	1.0	10/11/16 09:00	
Chloroform	ug/L	<2.5	5.0	10/11/16 09:00	
Chloromethane	ug/L	<0.50	1.0	10/11/16 09:00	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/11/16 09:00	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/11/16 09:00	
Dibromochloromethane	ug/L	<0.50	1.0	10/11/16 09:00	
Dibromomethane	ug/L	<0.43	1.0	10/11/16 09:00	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/11/16 09:00	
Ethylbenzene	ug/L	<0.50	1.0	10/11/16 09:00	
m&p-Xylene	ug/L	<1.0	2.0	10/11/16 09:00	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/11/16 09:00	
Methylene Chloride	ug/L	<0.23	1.0	10/11/16 09:00	
Naphthalene	ug/L	<2.5	5.0	10/11/16 09:00	
o-Xylene	ug/L	<0.50	1.0	10/11/16 09:00	
Styrene	ug/L	<0.50	1.0	10/11/16 09:00	
Tetrachloroethene	ug/L	<0.50	1.0	10/11/16 09:00	
Tetrahydrofuran	ug/L	<2.0	5.0	10/11/16 09:00	
Toluene	ug/L	<0.50	1.0	10/11/16 09:00	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/11/16 09:00	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/11/16 09:00	
Trichloroethene	ug/L	<0.33	1.0	10/11/16 09:00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

METHOD BLANK: 1407482

Matrix: Water

Associated Lab Samples: 40139613001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	10/11/16 09:00	
Vinyl chloride	ug/L	<0.18	1.0	10/11/16 09:00	
4-Bromofluorobenzene (S)	%	93	70-130	10/11/16 09:00	
Dibromofluoromethane (S)	%	106	70-130	10/11/16 09:00	
Toluene-d8 (S)	%	102	70-130	10/11/16 09:00	

LABORATORY CONTROL SAMPLE: 1407483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.1	110	70-131	
1,1,2-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1-Dichloroethane	ug/L	50	55.7	111	70-133	
1,1-Dichloroethene	ug/L	50	49.0	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.4	99	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	59.7	119	70-130	
1,2-Dichloropropane	ug/L	50	61.1	122	70-130	
1,3-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	65.9	132	60-135	
Bromodichloromethane	ug/L	50	54.4	109	70-130	
Bromoform	ug/L	50	43.2	86	70-130	
Bromomethane	ug/L	50	41.2	82	33-130	
Carbon disulfide	ug/L	50	59.0	118	70-139	
Carbon tetrachloride	ug/L	50	54.6	109	70-138	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	45.6	91	51-130	
Chloroform	ug/L	50	55.7	111	70-130	
Chloromethane	ug/L	50	36.9	74	25-132	
cis-1,2-Dichloroethene	ug/L	50	52.8	106	69-130	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	70-130	
Dibromochloromethane	ug/L	50	54.7	109	70-130	
Dichlorodifluoromethane	ug/L	50	37.7	75	23-130	
Ethylbenzene	ug/L	50	54.8	110	70-136	
m&p-Xylene	ug/L	100	105	105	70-138	
Methyl-tert-butyl ether	ug/L	50	50.5	101	66-138	
Methylene Chloride	ug/L	50	51.7	103	70-130	
o-Xylene	ug/L	50	53.0	106	70-134	
Styrene	ug/L	50	53.2	106	70-133	
Tetrachloroethene	ug/L	50	49.6	99	70-138	
Toluene	ug/L	50	54.8	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	69-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

LABORATORY CONTROL SAMPLE: 1407483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	49.1	98	50-150	
Vinyl chloride	ug/L	50	50.6	101	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408606 1408607

Parameter	Units	40139613001		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.6	58.5	111	117	70-134	5	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	56.4	55.6	113	111	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	56.5	57.5	113	115	70-134	2	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	49.5	50.6	99	101	68-136	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	52.8	53.7	106	107	50-150	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	54.4	54.2	109	108	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.9	51.2	104	102	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	61.7	63.3	123	127	70-130	3	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	62.8	57.2	126	114	70-130	9	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.6	50.2	101	100	70-131	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	52.9	52.3	106	105	70-130	1	20		
Benzene	ug/L	<0.50	50	50	66.9	68.0	134	136	57-138	2	20		
Bromodichloromethane	ug/L	<0.50	50	50	56.1	52.6	112	105	70-130	7	20		
Bromoform	ug/L	<0.50	50	50	44.9	45.3	90	91	70-130	1	20		
Bromomethane	ug/L	<2.4	50	50	47.4	50.0	95	100	33-130	5	27		
Carbon disulfide	ug/L	<0.61	50	50	59.8	61.9	120	124	70-153	4	20		
Carbon tetrachloride	ug/L	<0.50	50	50	55.5	57.5	111	115	70-138	4	20		
Chlorobenzene	ug/L	<0.50	50	50	53.7	52.7	107	105	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	45.3	46.3	91	93	51-130	2	20		
Chloroform	ug/L	<2.5	50	50	56.9	57.9	114	116	70-130	2	20		
Chloromethane	ug/L	<0.50	50	50	37.8	38.1	76	76	25-132	1	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	54.2	53.5	108	107	61-140	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	57.3	52.3	115	105	70-130	9	20		
Dibromochloromethane	ug/L	<0.50	50	50	56.5	55.6	113	111	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	37.7	39.0	75	78	23-130	3	20		
Ethylbenzene	ug/L	<0.50	50	50	55.0	55.1	110	110	70-138	0	20		
m&p-Xylene	ug/L	<1.0	100	100	107	107	107	107	70-140	0	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	53.1	53.9	106	108	66-139	1	20		
Methylene Chloride	ug/L	<0.23	50	50	53.2	54.3	106	109	70-130	2	20		
o-Xylene	ug/L	<0.50	50	50	54.4	53.3	109	107	70-134	2	20		
Styrene	ug/L	<0.50	50	50	54.8	53.3	110	107	70-138	3	20		
Tetrachloroethene	ug/L	<0.50	50	50	49.0	49.9	98	100	70-148	2	20		
Toluene	ug/L	<0.50	50	50	54.7	54.6	109	109	70-130	0	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408606		1408607		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40139613001 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.8	54.9	106	110	70-133	4	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.9	48.3	98	97	69-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	53.9	52.8	108	106	70-131	2	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.2	51.1	98	102	50-150	4	20		
Vinyl chloride	ug/L	2.4	50	50	53.5	55.4	102	106	49-133	3	20		
4-Bromofluorobenzene (S)	%						98	98	70-130				
Dibromofluoromethane (S)	%						108	110	70-130				
Toluene-d8 (S)	%						101	101	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch: 237611 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

METHOD BLANK: 1408309 Matrix: Water
 Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/12/16 11:46	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/12/16 11:46	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/12/16 11:46	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/12/16 11:46	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/12/16 11:46	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/12/16 11:46	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/12/16 11:46	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/12/16 11:46	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/12/16 11:46	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/12/16 11:46	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/12/16 11:46	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/12/16 11:46	
Acetone	ug/L	<3.0	20.0	10/12/16 11:46	
Benzene	ug/L	<0.50	1.0	10/12/16 11:46	
Bromodichloromethane	ug/L	<0.50	1.0	10/12/16 11:46	
Bromoform	ug/L	<0.50	1.0	10/12/16 11:46	
Bromomethane	ug/L	<2.4	5.0	10/12/16 11:46	
Carbon disulfide	ug/L	<0.61	5.0	10/12/16 11:46	
Carbon tetrachloride	ug/L	<0.50	1.0	10/12/16 11:46	
Chlorobenzene	ug/L	<0.50	1.0	10/12/16 11:46	
Chloroethane	ug/L	<0.37	1.0	10/12/16 11:46	
Chloroform	ug/L	<2.5	5.0	10/12/16 11:46	
Chloromethane	ug/L	<0.50	1.0	10/12/16 11:46	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/12/16 11:46	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/12/16 11:46	
Dibromochloromethane	ug/L	<0.50	1.0	10/12/16 11:46	
Dibromomethane	ug/L	<0.43	1.0	10/12/16 11:46	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/12/16 11:46	
Ethylbenzene	ug/L	<0.50	1.0	10/12/16 11:46	
m&p-Xylene	ug/L	<1.0	2.0	10/12/16 11:46	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/12/16 11:46	
Methylene Chloride	ug/L	<0.23	1.0	10/12/16 11:46	
Naphthalene	ug/L	<2.5	5.0	10/12/16 11:46	
o-Xylene	ug/L	<0.50	1.0	10/12/16 11:46	
Styrene	ug/L	<0.50	1.0	10/12/16 11:46	
Tetrachloroethene	ug/L	<0.50	1.0	10/12/16 11:46	
Tetrahydrofuran	ug/L	<2.0	5.0	10/12/16 11:46	
Toluene	ug/L	<0.50	1.0	10/12/16 11:46	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/12/16 11:46	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/12/16 11:46	
Trichloroethene	ug/L	<0.33	1.0	10/12/16 11:46	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

METHOD BLANK: 1408309 Matrix: Water
Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	10/12/16 11:46	
Vinyl chloride	ug/L	<0.18	1.0	10/12/16 11:46	
4-Bromofluorobenzene (S)	%	93	70-130	10/12/16 11:46	
Dibromofluoromethane (S)	%	104	70-130	10/12/16 11:46	
Toluene-d8 (S)	%	106	70-130	10/12/16 11:46	

LABORATORY CONTROL SAMPLE: 1408310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.8	116	70-131	
1,1,2-Trichloroethane	ug/L	50	62.1	124	70-130	
1,1-Dichloroethane	ug/L	50	59.3	119	70-133	
1,1-Dichloroethene	ug/L	50	51.0	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.8	112	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	59.4	119	70-130	
1,2-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,2-Dichloroethane	ug/L	50	64.8	130	70-130	
1,2-Dichloropropane	ug/L	50	65.0	130	70-130	
1,3-Dichlorobenzene	ug/L	50	54.4	109	70-130	
1,4-Dichlorobenzene	ug/L	50	55.7	111	70-130	
Benzene	ug/L	50	70.6	141	60-135 LO	
Bromodichloromethane	ug/L	50	58.0	116	70-130	
Bromoform	ug/L	50	46.5	93	70-130	
Bromomethane	ug/L	50	44.2	88	33-130	
Carbon disulfide	ug/L	50	60.6	121	70-139	
Carbon tetrachloride	ug/L	50	56.4	113	70-138	
Chlorobenzene	ug/L	50	56.2	112	70-130	
Chloroethane	ug/L	50	47.2	94	51-130	
Chloroform	ug/L	50	58.9	118	70-130	
Chloromethane	ug/L	50	39.4	79	25-132	
cis-1,2-Dichloroethene	ug/L	50	53.3	107	69-130	
cis-1,3-Dichloropropene	ug/L	50	58.7	117	70-130	
Dibromochloromethane	ug/L	50	59.2	118	70-130	
Dichlorodifluoromethane	ug/L	50	37.1	74	23-130	
Ethylbenzene	ug/L	50	59.3	119	70-136	
m&p-Xylene	ug/L	100	113	113	70-138	
Methyl-tert-butyl ether	ug/L	50	55.2	110	66-138	
Methylene Chloride	ug/L	50	55.0	110	70-130	
o-Xylene	ug/L	50	56.8	114	70-134	
Styrene	ug/L	50	58.0	116	70-133	
Tetrachloroethene	ug/L	50	51.9	104	70-138	
Toluene	ug/L	50	59.5	119	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.7	111	70-131	
trans-1,3-Dichloropropene	ug/L	50	52.3	105	69-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

LABORATORY CONTROL SAMPLE: 1408310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	57.0	114	70-130	
Trichlorofluoromethane	ug/L	50	51.1	102	50-150	
Vinyl chloride	ug/L	50	52.3	105	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409493 1409494

Parameter	Units	40139787002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	50.9	54.6	102	109	70-134	7	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.4	59.4	107	119	70-130	11	20		
1,1-Dichloroethane	ug/L	1.2	50	50	52.6	57.2	103	112	70-134	8	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	44.4	47.8	89	96	68-136	8	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.9	54.5	100	109	50-150	9	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.6	56.8	101	114	70-130	12	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.4	54.4	99	109	70-130	10	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	55.6	62.2	111	124	70-130	11	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	58.2	61.8	116	124	70-130	6	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.4	52.7	97	105	70-131	9	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.2	55.1	98	110	70-130	11	20		
Benzene	ug/L	1.3	50	50	63.0	68.8	123	135	57-138	9	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.5	55.2	99	110	70-130	11	20		
Bromoform	ug/L	<0.50	50	50	40.8	44.3	82	89	70-130	8	20		
Bromomethane	ug/L	<2.4	50	50	39.2	38.0	78	76	33-130	3	27		
Carbon disulfide	ug/L	<0.61	50	50	55.7	59.6	111	119	70-153	7	20		
Carbon tetrachloride	ug/L	<0.50	50	50	51.0	54.3	102	109	70-138	6	20		
Chlorobenzene	ug/L	<0.50	50	50	50.5	54.6	101	109	70-130	8	20		
Chloroethane	ug/L	<0.37	50	50	41.6	44.9	83	90	51-130	8	20		
Chloroform	ug/L	<2.5	50	50	51.2	56.4	102	113	70-130	10	20		
Chloromethane	ug/L	<0.50	50	50	33.8	36.1	68	72	25-132	7	20		
cis-1,2-Dichloroethene	ug/L	1.8	50	50	49.1	53.2	94	103	61-140	8	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	48.3	55.4	97	111	70-130	14	20		
Dibromochloromethane	ug/L	<0.50	50	50	52.0	58.0	104	116	70-130	11	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	33.2	35.3	66	71	23-130	6	20		
Ethylbenzene	ug/L	<0.50	50	50	52.5	56.7	105	113	70-138	8	20		
m&p-Xylene	ug/L	<1.0	100	100	102	110	102	110	70-140	7	20		
Methyl-tert-butyl ether	ug/L	0.29J	50	50	47.5	52.9	94	105	66-139	11	20		
Methylene Chloride	ug/L	0.31J	50	50	47.9	52.9	95	105	70-130	10	20		
o-Xylene	ug/L	<0.50	50	50	51.3	55.1	103	110	70-134	7	20		
Styrene	ug/L	<0.50	50	50	51.4	56.9	103	114	70-138	10	20		
Tetrachloroethene	ug/L	<0.50	50	50	47.0	49.9	94	100	70-148	6	20		
Toluene	ug/L	<0.50	50	50	52.9	56.9	106	114	70-130	7	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409493		1409494		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40139787002 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.6	53.3	97	107	70-133	9	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.1	51.4	90	103	69-130	13	20		
Trichloroethene	ug/L	<0.33	50	50	50.8	53.8	102	108	70-131	6	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	44.9	48.6	90	97	50-150	8	20		
Vinyl chloride	ug/L	<0.18	50	50	47.6	51.3	95	103	49-133	7	20		
4-Bromofluorobenzene (S)	%						97	97	70-130				
Dibromofluoromethane (S)	%						105	106	70-130				
Toluene-d8 (S)	%						103	104	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

QC Batch: 237670 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40139613001

METHOD BLANK: 1408491 Matrix: Water
Associated Lab Samples: 40139613001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/14/16 13:25	

LABORATORY CONTROL SAMPLE: 1408492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	22.1	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408493 1408494

Parameter	Units	40139611001		40139611002		40139611003		40139611004		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec				
Chloride	mg/L	37.8	20	20	58.2	57.9	102	101	90-110	1	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408495 1408496

Parameter	Units	40139614002		40139614003		40139614004		40139614005		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec				
Chloride	mg/L	559	400	400	927	911	92	88	90-110	2	15	M0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

QC Batch: 238126 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

METHOD BLANK: 1410630 Matrix: Water
Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.50J	2.0	10/18/16 12:08	

LABORATORY CONTROL SAMPLE: 1410631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410632 1410633

Parameter	Units	40139754012		40139754013		40139754014		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Chloride	mg/L	2.6	20	20	23.1	23.3	102	104	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410634 1410635

Parameter	Units	40139786006		40139786007		40139786008		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Chloride	mg/L	18.9	20	20	39.7	39.9	104	105	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

QC Batch: 237905 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40139613001

METHOD BLANK: 1409543 Matrix: Water
Associated Lab Samples: 40139613001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<8.6	20.0	10/13/16 11:11	

LABORATORY CONTROL SAMPLE: 1409544

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409545 1409546

Parameter	Units	40139612007 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 ₃ , Dissolved	mg/L	1010	1000	1000	1960	1910	95	90	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409547 1409548

Parameter	Units	40139683005 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 ₃ , Dissolved	mg/L	23.1	100	100	120	118	97	95	90-110	2	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

QC Batch: 238341

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

METHOD BLANK: 1412182

Matrix: Water

Associated Lab Samples: 40139786001, 40139786002, 40139786003, 40139786004, 40139786005, 40139786006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<8.6	20.0	10/18/16 12:25	

LABORATORY CONTROL SAMPLE: 1412183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412184 1412185

Parameter	Units	40139786005 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 ₃ , Dissolved	mg/L	376	500	500	884	891	102	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412186 1412187

Parameter	Units	40139870003 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 ₃ , Dissolved	mg/L	34.5	100	100	129	129	95	94	90-110	0	20	

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40139613

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

B Analyte was detected in the associated method blank.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40139613

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139613001	MW-1B	EPA 6010	237782		
40139786001	P-424D	EPA 6010	237793		
40139786002	P-424SS	EPA 6010	237793		
40139786003	P-423D	EPA 6010	237793		
40139786004	P-426D	EPA 6010	238166		
40139786005	P-402E	EPA 6010	238166		
40139786006	P-422B	EPA 6010	238166		
40139613001	MW-1B	EPA 8260	237505		
40139786001	P-424D	EPA 8260	237611		
40139786002	P-424SS	EPA 8260	237611		
40139786003	P-423D	EPA 8260	237611		
40139786004	P-426D	EPA 8260	237611		
40139786005	P-402E	EPA 8260	237611		
40139786006	P-422B	EPA 8260	237611		
40139613001	MW-1B				
40139786001	P-424D				
40139786002	P-424SS				
40139786003	P-423D				
40139786004	P-426D				
40139786005	P-402E				
40139786006	P-422B				
40139786007	P-401D				
40139613009	P-402E				
40139613010	P-422B				
40139613011	P-423B				
40139613012	P-424D				
40139613013	P-424SS				
40139613014	P-426D				
40139613015	MW-1B				
40139613001	MW-1B	EPA 300.0	237670		
40139786001	P-424D	EPA 300.0	238126		
40139786002	P-424SS	EPA 300.0	238126		
40139786003	P-423D	EPA 300.0	238126		
40139786004	P-426D	EPA 300.0	238126		
40139786005	P-402E	EPA 300.0	238126		
40139786006	P-422B	EPA 300.0	238126		
40139613001	MW-1B	EPA 310.2	237905		
40139786001	P-424D	EPA 310.2	238341		
40139786002	P-424SS	EPA 310.2	238341		
40139786003	P-423D	EPA 310.2	238341		
40139786004	P-426D	EPA 310.2	238341		
40139786005	P-402E	EPA 310.2	238341		
40139786006	P-422B	EPA 310.2	238341		

REPORT OF LABORATORY ANALYSIS

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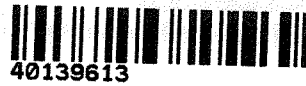
Sample Condition Upon Receipt

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

Pace Analytical

Client Name: ADS

Project #: **WO# : 40139613**



Courier: Fed Ex UPS Client Pace Other: Dunham

Tracking #: 1220541

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: _____ /Corr: ROI

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: 10-6-16
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.
-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 ≥ 9; 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>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:

Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: _____

Date: 10/6/16



Sample Condition Upon Receipt

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

Client Name: ADS Glacier Ridge

Project #: WO#: 40139786
Barcode with number 40139786

Courier: Fed Ex UPS Client Pace Other: Durham
Tracking #: 1221537

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: /Corr: ROL Biological Tissue is Frozen: yes

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: 10/8/16
Initials: KJ

Table with 2 columns: Question/Requirement and Answer/Status. 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: P 4010 not sampled per ESC. 10/10/16

Project Manager Review: CKV Date: 10/10/16

May 04, 2017

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

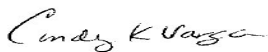
RE: Project: LGRL INVESTIGATION WELLS 04/17
Pace Project No.: 40147998

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between April 07, 2017 and May 04, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mari Bull, SCS ENGINEERS
Sherren Clark, SCS Engineers
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
ESC Staff, ESC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147998001	P-402E	Water	04/07/17 13:40	04/08/17 07:40
40147998002	P-422B	Water	04/07/17 14:10	04/08/17 07:40
40147998003	P-423D	Water	04/07/17 11:50	04/08/17 07:40
40147998004	P-424D	Water	04/07/17 11:15	04/08/17 07:40
40147998005	P-424SS	Water	04/07/17 10:45	04/08/17 07:40
40147998006	P-426D	Water	04/07/17 12:30	04/08/17 07:40
40147998007	P-424SS DUP	Water	04/07/17 10:45	04/08/17 07:40
40147998008	TRIP BLANK	Water	04/07/17 00:00	04/08/17 07:40
40147912005	MW-1B	Water	04/06/17 13:40	04/07/17 08:55
40147998010	P-401D	Water	04/03/17 00:00	05/04/17 14:30
40147998011	P-402E	Water	04/03/17 00:00	05/04/17 14:30
40147998012	P-422B	Water	04/03/17 00:00	05/04/17 14:30
40147998013	P-423D	Water	04/03/17 00:00	05/04/17 14:30
40147998014	P-424D	Water	04/03/17 00:00	05/04/17 14:30
40147998015	P-424SS	Water	04/03/17 00:00	05/04/17 14:30
40147998016	P-426D	Water	04/03/17 00:00	05/04/17 14:30
40147998017	MW-1B	Water	04/03/17 00:00	05/04/17 14:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS 04/17
Pace Project No.: 40147998

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147998001	P-402E	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998002	P-422B	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998003	P-423D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998004	P-424D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998005	P-424SS	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998006	P-426D	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998007	P-424SS DUP	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998008	TRIP BLANK	EPA 8260	HNW	46	PASI-G
40147912005	MW-1B	EPA 6010	DLB	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147998010	P-401D		CKV	1	PASI-G
40147998011	P-402E		CKV	1	PASI-G
40147998012	P-422B		CKV	1	PASI-G
40147998013	P-423D		CKV	1	PASI-G
40147998014	P-424D		CKV	1	PASI-G
40147998015	P-424SS		CKV	1	PASI-G
40147998016	P-426D		CKV	1	PASI-G
40147998017	MW-1B		CKV	1	PASI-G

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-402E Lab ID: 40147998001 Collected: 04/07/17 13:40 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	442000	ug/L	2000	150	1		04/13/17 13:28		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		04/11/17 09:46	79-00-5	
1,1-Dichloroethane	1.1J	ug/L	2.5	0.60	2.5		04/11/17 09:46	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		04/11/17 09:46	75-35-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		04/11/17 09:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		04/11/17 09:46	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	95-50-1	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		04/11/17 09:46	107-06-2	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		04/11/17 09:46	78-87-5	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	106-46-7	
2-Butanone (MEK)	<7.4	ug/L	50.0	7.4	2.5		04/11/17 09:46	78-93-3	
Acetone	<7.4	ug/L	50.0	7.4	2.5		04/11/17 09:46	67-64-1	
Benzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	71-43-2	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		04/11/17 09:46	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		04/11/17 09:46	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	108-90-7	
Chloroethane	7.1	ug/L	2.5	0.94	2.5		04/11/17 09:46	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		04/11/17 09:46	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		04/11/17 09:46	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		04/11/17 09:46	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		04/11/17 09:46	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		04/11/17 09:46	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		04/11/17 09:46	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		04/11/17 09:46	109-99-9	
Toluene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	108-88-3	
Trichloroethene	3.3	ug/L	2.5	0.83	2.5		04/11/17 09:46	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		04/11/17 09:46	75-69-4	
Vinyl chloride	29.7	ug/L	2.5	0.44	2.5		04/11/17 09:46	75-01-4	
cis-1,2-Dichloroethene	324	ug/L	2.5	0.64	2.5		04/11/17 09:46	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		04/11/17 09:46	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		04/11/17 09:46	95-47-6	
trans-1,2-Dichloroethene	14.3	ug/L	2.5	0.64	2.5		04/11/17 09:46	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-402E **Lab ID: 40147998001** Collected: 04/07/17 13:40 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		04/11/17 09:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2.5		04/11/17 09:46	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		2.5		04/11/17 09:46	1868-53-7	
Toluene-d8 (S)	88	%	70-130		2.5		04/11/17 09:46	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.02	Std. Units			1		04/07/17 13:40		
Field Specific Conductance	880	umhos/cm			1		04/07/17 13:40		
Turbidity	N	NTU			1		04/07/17 13:40		
Static Water Level	N	feet			1		04/07/17 13:40		
Apparent Color	N	no units			1		04/07/17 13:40		
Temperature, Water (C)	13.3	deg C			1		04/07/17 13:40		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	65.3	mg/L	10.0	2.5	5		04/18/17 23:41	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	392	mg/L	23.5	7.0	1		04/13/17 12:33		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: **P-422B** Lab ID: **40147998002** Collected: 04/07/17 14:10 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	157000	ug/L	2000	150	1		04/13/17 13:31		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 10:09	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/11/17 10:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 10:09	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 10:09	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 10:09	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 10:09	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 10:09	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 10:09	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 10:09	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 10:09	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 10:09	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/11/17 10:09	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 10:09	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 10:09	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 10:09	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 10:09	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 10:09	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 10:09	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 10:09	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/11/17 10:09	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 10:09	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/11/17 10:09	75-01-4	
cis-1,2-Dichloroethene	7.0	ug/L	1.0	0.26	1		04/11/17 10:09	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 10:09	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:09	95-47-6	
trans-1,2-Dichloroethene	0.27J	ug/L	1.0	0.26	1		04/11/17 10:09	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-422B **Lab ID: 40147998002** Collected: 04/07/17 14:10 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 10:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/11/17 10:09	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		04/11/17 10:09	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		04/11/17 10:09	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.98	Std. Units			1		04/07/17 14:10		
Field Specific Conductance	407	umhos/cm			1		04/07/17 14:10		
Turbidity	N	NTU			1		04/07/17 14:10		
Apparent Color	N	no units			1		04/07/17 14:10		
Odor	N	no units			1		04/07/17 14:10		
Temperature, Water (C)	12.4	deg C			1		04/07/17 14:10		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	12.2	mg/L	2.0	0.50	1		04/18/17 23:53	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	209	mg/L	23.5	7.0	1		04/13/17 12:34		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-423D Lab ID: 40147998003 Collected: 04/07/17 11:50 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	430000	ug/L	2000	150	1		04/13/17 13:34		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 10:32	79-00-5	
1,1-Dichloroethane	0.44J	ug/L	1.0	0.24	1		04/11/17 10:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 10:32	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 10:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 10:32	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 10:32	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 10:32	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 10:32	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 10:32	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 10:32	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 10:32	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	108-90-7	
Chloroethane	1.7	ug/L	1.0	0.37	1		04/11/17 10:32	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 10:32	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 10:32	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 10:32	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 10:32	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 10:32	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 10:32	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 10:32	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	108-88-3	
Trichloroethene	0.73J	ug/L	1.0	0.33	1		04/11/17 10:32	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 10:32	75-69-4	
Vinyl chloride	1.1	ug/L	1.0	0.18	1		04/11/17 10:32	75-01-4	
cis-1,2-Dichloroethene	47.9	ug/L	1.0	0.26	1		04/11/17 10:32	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 10:32	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:32	95-47-6	
trans-1,2-Dichloroethene	2.6	ug/L	1.0	0.26	1		04/11/17 10:32	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-423D **Lab ID: 40147998003** Collected: 04/07/17 11:50 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 10:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/11/17 10:32	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/11/17 10:32	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/11/17 10:32	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.57	Std. Units			1		04/07/17 11:50		
Field Specific Conductance	799	umhos/cm			1		04/07/17 11:50		
Turbidity	N	NTU			1		04/07/17 11:50		
Apparent Color	N	no units			1		04/07/17 11:50		
Odor	N	no units			1		04/07/17 11:50		
Temperature, Water (C)	14.3	deg C			1		04/07/17 11:50		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	43.0	mg/L	2.0	0.50	1		04/19/17 00:05	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	364	mg/L	47.0	14.1	2		04/13/17 12:34		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424D Lab ID: 40147998004 Collected: 04/07/17 11:15 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	422000	ug/L	2000	150	1		04/13/17 13:52		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 09:24	79-00-5	
1,1-Dichloroethane	0.84J	ug/L	1.0	0.24	1		04/11/17 09:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 09:24	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 09:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 09:24	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 09:24	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 09:24	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 09:24	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 09:24	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 09:24	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 09:24	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	108-90-7	
Chloroethane	3.6	ug/L	1.0	0.37	1		04/11/17 09:24	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 09:24	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 09:24	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 09:24	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 09:24	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 09:24	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 09:24	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 09:24	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	108-88-3	
Trichloroethene	2.1	ug/L	1.0	0.33	1		04/11/17 09:24	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 09:24	75-69-4	
Vinyl chloride	7.6	ug/L	1.0	0.18	1		04/11/17 09:24	75-01-4	
cis-1,2-Dichloroethene	119	ug/L	1.0	0.26	1		04/11/17 09:24	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 09:24	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 09:24	95-47-6	
trans-1,2-Dichloroethene	4.0	ug/L	1.0	0.26	1		04/11/17 09:24	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424D **Lab ID: 40147998004** Collected: 04/07/17 11:15 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 09:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/11/17 09:24	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		04/11/17 09:24	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/11/17 09:24	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.51	Std. Units			1		04/07/17 11:15		
Field Specific Conductance	821	umhos/cm			1		04/07/17 11:15		
Turbidity	N	NTU			1		04/07/17 11:15		
Apparent Color	N	no units			1		04/07/17 11:15		
Odor	N	no units			1		04/07/17 11:15		
Temperature, Water (C)	12.5	deg C			1		04/07/17 11:15		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	43.2	mg/L	10.0	2.5	5		04/19/17 13:08	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	374	mg/L	47.0	14.1	2		04/13/17 12:39		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424SS Lab ID: 40147998005 Collected: 04/07/17 10:45 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	288000	ug/L	2000	150	1		04/13/17 14:00		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 10:55	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/11/17 10:55	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 10:55	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 10:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 10:55	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 10:55	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 10:55	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 10:55	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 10:55	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 10:55	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 10:55	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/11/17 10:55	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 10:55	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 10:55	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 10:55	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 10:55	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 10:55	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 10:55	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 10:55	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/11/17 10:55	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 10:55	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/11/17 10:55	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 10:55	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 10:55	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 10:55	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 10:55	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424SS **Lab ID: 40147998005** Collected: 04/07/17 10:45 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 10:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/11/17 10:55	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		04/11/17 10:55	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/11/17 10:55	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.52	Std. Units			1		04/07/17 10:45		
Field Specific Conductance	530	umhos/cm			1		04/07/17 10:45		
Turbidity	N	NTU			1		04/07/17 10:45		
Apparent Color	N	no units			1		04/07/17 10:45		
Odor	N	no units			1		04/07/17 10:45		
Temperature, Water (C)	12.8	deg C			1		04/07/17 10:45		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	0.92J	mg/L	2.0	0.50	1		04/19/17 00:51	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	314	mg/L	23.5	7.0	1		04/13/17 12:41		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-426D Lab ID: 40147998006 Collected: 04/07/17 12:30 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	413000	ug/L	2000	150	1		04/13/17 14:03		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 11:18	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/11/17 11:18	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 11:18	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 11:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 11:18	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 11:18	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 11:18	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 11:18	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 11:18	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 11:18	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 11:18	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/11/17 11:18	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 11:18	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 11:18	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 11:18	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 11:18	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 11:18	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 11:18	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 11:18	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/11/17 11:18	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 11:18	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/11/17 11:18	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 11:18	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 11:18	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:18	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 11:18	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-426D **Lab ID: 40147998006** Collected: 04/07/17 12:30 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 11:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/11/17 11:18	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/11/17 11:18	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/11/17 11:18	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.67	Std. Units			1		04/07/17 12:30		
Field Specific Conductance	806	umhos/cm			1		04/07/17 12:30		
Turbidity	N	NTU			1		04/07/17 12:30		
Apparent Color	N	no units			1		04/07/17 12:30		
Odor	N	no units			1		04/07/17 12:30		
Field Temperature, C	14.0	deg C			1		04/07/17 12:30		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	37.0	mg/L	2.0	0.50	1		04/19/17 01:02	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	349	mg/L	23.5	7.0	1		04/13/17 12:41		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424SS DUP **Lab ID: 40147998007** Collected: 04/07/17 10:45 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	284000	ug/L	2000	150	1		04/13/17 14:05		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 11:41	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/11/17 11:41	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 11:41	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 11:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 11:41	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 11:41	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 11:41	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 11:41	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 11:41	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 11:41	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 11:41	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/11/17 11:41	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 11:41	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 11:41	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 11:41	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 11:41	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 11:41	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 11:41	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 11:41	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/11/17 11:41	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 11:41	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/11/17 11:41	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 11:41	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 11:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 11:41	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 11:41	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424SS DUP **Lab ID: 40147998007** Collected: 04/07/17 10:45 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 11:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/11/17 11:41	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		04/11/17 11:41	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/11/17 11:41	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.52	Std. Units			1		04/07/17 10:45		
Field Specific Conductance	530	umhos/cm			1		04/07/17 10:45		
Turbidity	N	NTU			1		04/07/17 10:45		
Apparent Color	N	no units			1		04/07/17 10:45		
Odor	N	no units			1		04/07/17 10:45		
Field Temperature, C	12.8	deg C			1		04/07/17 10:45		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	0.91J	mg/L	2.0	0.50	1		04/19/17 01:14	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	317	mg/L	23.5	7.0	1		04/13/17 12:42		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: TRIP BLANK **Lab ID: 40147998008** Collected: 04/07/17 00:00 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/12/17 02:00	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/12/17 02:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/12/17 02:00	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/12/17 02:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/12/17 02:00	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/12/17 02:00	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/12/17 02:00	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/12/17 02:00	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/12/17 02:00	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/12/17 02:00	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/12/17 02:00	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/12/17 02:00	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/12/17 02:00	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/12/17 02:00	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/12/17 02:00	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/12/17 02:00	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/12/17 02:00	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/12/17 02:00	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/12/17 02:00	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/12/17 02:00	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/12/17 02:00	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/12/17 02:00	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/17 02:00	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/12/17 02:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/12/17 02:00	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/12/17 02:00	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/12/17 02:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/12/17 02:00	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/12/17 02:00	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: TRIP BLANK **Lab ID: 40147998008** Collected: 04/07/17 00:00 Received: 04/08/17 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Surrogates									
Toluene-d8 (S)	88	%	70-130		1		04/12/17 02:00	2037-26-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: **MW-1B** Lab ID: **40147912005** Collected: 04/06/17 13:40 Received: 04/07/17 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	287000	ug/L	2000	150	1		04/13/17 12:56		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/11/17 13:35	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/11/17 13:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/11/17 13:35	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/11/17 13:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/11/17 13:35	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/11/17 13:35	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/11/17 13:35	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		04/11/17 13:35	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		04/11/17 13:35	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/11/17 13:35	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		04/11/17 13:35	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/11/17 13:35	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/11/17 13:35	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/11/17 13:35	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/11/17 13:35	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/11/17 13:35	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/11/17 13:35	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/11/17 13:35	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/11/17 13:35	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/11/17 13:35	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/11/17 13:35	75-69-4	
Vinyl chloride	1.9	ug/L	1.0	0.18	1		04/11/17 13:35	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 13:35	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 13:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 13:35	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/11/17 13:35	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: MW-1B **Lab ID: 40147912005** Collected: 04/06/17 13:40 Received: 04/07/17 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/11/17 13:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		04/11/17 13:35	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/11/17 13:35	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/11/17 13:35	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.87	Std. Units			1		04/06/17 13:40		
Field Specific Conductance	783	umhos/cm			1		04/06/17 13:40		
Turbidity	N	NTU			1		04/06/17 13:40		
Apparent Color	N	no units			1		04/06/17 13:40		
Odor	N	no units			1		04/06/17 13:40		
Temperature, Water (C)	10.6	deg C			1		04/06/17 13:40		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	89.0	mg/L	10.0	2.5	5		04/18/17 19:31	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	216	mg/L	23.5	7.0	1		04/13/17 12:31		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-401D **Lab ID: 40147998010** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	856.50	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-402E **Lab ID: 40147998011** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	856.56	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-422B **Lab ID: 40147998012** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Static Water Level	928.59	feet			1		04/03/17 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-423D **Lab ID: 40147998013** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	854.69	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424D **Lab ID: 40147998014** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	855.27	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-424SS **Lab ID: 40147998015** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Analytical Method:

Static Water Level	854.78	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: P-426D **Lab ID: 40147998016** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	854.70	feet			1		04/03/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Sample: MW-1B **Lab ID: 40147998017** Collected: 04/03/17 00:00 Received: 05/04/17 14:30 Matrix: Water

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

Static Water Level	928.48	feet			1		04/03/17 00:00		
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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252510

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40147912005, 40147998001, 40147998002, 40147998003

METHOD BLANK: 1489777

Matrix: Water

Associated Lab Samples: 40147912005, 40147998001, 40147998002, 40147998003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/13/17 12:22	

LABORATORY CONTROL SAMPLE: 1489778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		30800			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489779 1489780

Parameter	Units	40147491008 Result	MS Spike Conc.	MSD Spike Conc.	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
					Result	% Rec	Result	% Rec				
Total Hardness by 2340B, Dissolved	ug/L	221000			248000		253000			2	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252512

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40147998004, 40147998005, 40147998006, 40147998007

METHOD BLANK: 1489784

Matrix: Water

Associated Lab Samples: 40147998004, 40147998005, 40147998006, 40147998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/13/17 13:47	

LABORATORY CONTROL SAMPLE: 1489785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		31700			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489786 1489787

Parameter	Units	1489786		1489787		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147998004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Total Hardness by 2340B, Dissolved	ug/L	422000			441000	441000			0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch:	252206	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40147912005		

METHOD BLANK:	1488616	Matrix:	Water
Associated Lab Samples:	40147912005		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/11/17 07:06	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/11/17 07:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/11/17 07:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/11/17 07:06	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/11/17 07:06	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/11/17 07:06	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/11/17 07:06	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/11/17 07:06	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/11/17 07:06	
Acetone	ug/L	<3.0	20.0	04/11/17 07:06	
Benzene	ug/L	<0.50	1.0	04/11/17 07:06	
Bromodichloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
Bromoform	ug/L	<0.50	1.0	04/11/17 07:06	
Bromomethane	ug/L	<2.4	5.0	04/11/17 07:06	
Carbon disulfide	ug/L	<0.61	5.0	04/11/17 07:06	
Carbon tetrachloride	ug/L	<0.50	1.0	04/11/17 07:06	
Chlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
Chloroethane	ug/L	<0.37	1.0	04/11/17 07:06	
Chloroform	ug/L	<2.5	5.0	04/11/17 07:06	
Chloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/11/17 07:06	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/11/17 07:06	
Dibromochloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
Dibromomethane	ug/L	<0.43	1.0	04/11/17 07:06	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/11/17 07:06	
Ethylbenzene	ug/L	<0.50	1.0	04/11/17 07:06	
m&p-Xylene	ug/L	<1.0	2.0	04/11/17 07:06	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/11/17 07:06	
Methylene Chloride	ug/L	<0.23	1.0	04/11/17 07:06	
Naphthalene	ug/L	<2.5	5.0	04/11/17 07:06	
o-Xylene	ug/L	<0.50	1.0	04/11/17 07:06	
Styrene	ug/L	<0.50	1.0	04/11/17 07:06	
Tetrachloroethene	ug/L	<0.50	1.0	04/11/17 07:06	
Tetrahydrofuran	ug/L	<2.0	5.0	04/11/17 07:06	
Toluene	ug/L	<0.50	1.0	04/11/17 07:06	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/11/17 07:06	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/11/17 07:06	
Trichloroethene	ug/L	<0.33	1.0	04/11/17 07:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

METHOD BLANK: 1488616

Matrix: Water

Associated Lab Samples: 40147912005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	04/11/17 07:06	
Vinyl chloride	ug/L	<0.18	1.0	04/11/17 07:06	
4-Bromofluorobenzene (S)	%	83	70-130	04/11/17 07:06	
Dibromofluoromethane (S)	%	94	70-130	04/11/17 07:06	
Toluene-d8 (S)	%	97	70-130	04/11/17 07:06	

LABORATORY CONTROL SAMPLE: 1488617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-131	
1,1,2-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-133	
1,1-Dichloroethene	ug/L	50	47.1	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.9	84	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
Benzene	ug/L	50	52.1	104	60-135	
Bromodichloromethane	ug/L	50	49.8	100	70-130	
Bromoform	ug/L	50	51.1	102	70-130	
Bromomethane	ug/L	50	38.1	76	33-130	
Carbon disulfide	ug/L	50	54.6	109	70-139	
Carbon tetrachloride	ug/L	50	50.9	102	70-138	
Chlorobenzene	ug/L	50	49.4	99	70-130	
Chloroethane	ug/L	50	39.1	78	51-130	
Chloroform	ug/L	50	49.1	98	70-130	
Chloromethane	ug/L	50	35.9	72	25-132	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	69-130	
cis-1,3-Dichloropropene	ug/L	50	45.8	92	70-130	
Dibromochloromethane	ug/L	50	51.1	102	70-130	
Dichlorodifluoromethane	ug/L	50	32.9	66	23-130	
Ethylbenzene	ug/L	50	52.1	104	70-136	
m&p-Xylene	ug/L	100	107	107	70-138	
Methyl-tert-butyl ether	ug/L	50	46.1	92	66-138	
Methylene Chloride	ug/L	50	44.5	89	70-130	
o-Xylene	ug/L	50	52.1	104	70-134	
Styrene	ug/L	50	52.1	104	70-133	
Tetrachloroethene	ug/L	50	51.5	103	70-138	
Toluene	ug/L	50	52.5	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.1	94	70-131	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	69-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

LABORATORY CONTROL SAMPLE: 1488617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	48.8	98	50-150	
Vinyl chloride	ug/L	50	44.5	89	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488618 1488619

Parameter	Units	40147831001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.0	49.8	102	100	70-134	2	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.3	49.4	107	99	70-130	7	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	46.0	45.5	92	91	70-134	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	47.2	47.7	94	95	68-136	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	59.9	44.5	120	89	50-150	29	20	R1	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	55.5	50.1	111	100	70-130	10	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	52.8	49.0	106	98	70-130	7	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	49.9	48.1	100	96	70-130	4	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	46.5	48.7	93	97	70-130	4	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.4	48.3	97	97	70-131	0	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.0	48.3	100	97	70-130	4	20		
Benzene	ug/L	<0.50	50	50	52.2	51.6	104	103	57-138	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.8	48.6	100	97	70-130	2	20		
Bromoform	ug/L	<0.50	50	50	59.0	54.1	118	108	70-130	9	20		
Bromomethane	ug/L	<2.4	50	50	35.7	44.1	71	88	33-130	21	27		
Carbon disulfide	ug/L	<0.61	50	50	56.2	54.5	112	109	70-153	3	20		
Carbon tetrachloride	ug/L	<0.50	50	50	51.2	49.7	102	99	70-138	3	20		
Chlorobenzene	ug/L	<0.50	50	50	48.7	49.7	97	99	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	41.1	41.1	82	82	51-130	0	20		
Chloroform	ug/L	<2.5	50	50	50.5	48.3	101	97	70-130	4	20		
Chloromethane	ug/L	<0.50	50	50	41.6	39.3	83	79	25-132	6	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.2	48.5	100	97	61-140	4	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	45.6	44.4	91	89	70-130	3	20		
Dibromochloromethane	ug/L	<0.50	50	50	52.9	50.1	106	100	70-130	6	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	34.0	33.3	68	67	23-130	2	20		
Ethylbenzene	ug/L	<0.50	50	50	53.4	53.3	107	107	70-138	0	20		
m&p-Xylene	ug/L	<1.0	100	100	108	112	108	112	70-140	3	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.4	46.9	105	94	66-139	11	20		
Methylene Chloride	ug/L	<0.23	50	50	46.8	45.9	94	92	70-130	2	20		
o-Xylene	ug/L	<0.50	50	50	56.2	54.4	112	109	70-134	3	20		
Styrene	ug/L	<0.50	50	50	53.5	54.4	107	109	70-138	2	20		
Tetrachloroethene	ug/L	<0.50	50	50	51.2	51.8	102	104	70-148	1	20		
Toluene	ug/L	<0.50	50	50	53.0	52.4	106	105	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488618		1488619		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40147831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	47.9	47.8	96	96	70-133	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	52.5	47.2	105	94	69-130	11	20		
Trichloroethene	ug/L	<0.33	50	50	51.5	51.8	103	104	70-131	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	48.3	47.8	97	96	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	46.2	44.3	92	89	49-133	4	20		
4-Bromofluorobenzene (S)	%						102	100	70-130				
Dibromofluoromethane (S)	%						98	94	70-130				
Toluene-d8 (S)	%						96	96	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252232 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40147998001, 40147998002, 40147998003, 40147998004, 40147998005, 40147998006, 40147998007, 40147998008

METHOD BLANK: 1488719 Matrix: Water
 Associated Lab Samples: 40147998001, 40147998002, 40147998003, 40147998004, 40147998005, 40147998006, 40147998007, 40147998008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/11/17 07:06	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/11/17 07:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/11/17 07:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/11/17 07:06	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/11/17 07:06	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/11/17 07:06	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/11/17 07:06	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/11/17 07:06	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/11/17 07:06	
Acetone	ug/L	<3.0	20.0	04/11/17 07:06	
Benzene	ug/L	<0.50	1.0	04/11/17 07:06	
Bromodichloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
Bromoform	ug/L	<0.50	1.0	04/11/17 07:06	
Bromomethane	ug/L	<2.4	5.0	04/11/17 07:06	
Carbon disulfide	ug/L	<0.61	5.0	04/11/17 07:06	
Carbon tetrachloride	ug/L	<0.50	1.0	04/11/17 07:06	
Chlorobenzene	ug/L	<0.50	1.0	04/11/17 07:06	
Chloroethane	ug/L	<0.37	1.0	04/11/17 07:06	
Chloroform	ug/L	<2.5	5.0	04/11/17 07:06	
Chloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/11/17 07:06	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/11/17 07:06	
Dibromochloromethane	ug/L	<0.50	1.0	04/11/17 07:06	
Dibromomethane	ug/L	<0.43	1.0	04/11/17 07:06	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/11/17 07:06	
Ethylbenzene	ug/L	<0.50	1.0	04/11/17 07:06	
m&p-Xylene	ug/L	<1.0	2.0	04/11/17 07:06	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/11/17 07:06	
Methylene Chloride	ug/L	<0.23	1.0	04/11/17 07:06	
Naphthalene	ug/L	<2.5	5.0	04/11/17 07:06	
o-Xylene	ug/L	<0.50	1.0	04/11/17 07:06	
Styrene	ug/L	<0.50	1.0	04/11/17 07:06	
Tetrachloroethene	ug/L	<0.50	1.0	04/11/17 07:06	
Tetrahydrofuran	ug/L	<2.0	5.0	04/11/17 07:06	
Toluene	ug/L	<0.50	1.0	04/11/17 07:06	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/11/17 07:06	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/11/17 07:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

METHOD BLANK: 1488719

Matrix: Water

Associated Lab Samples: 40147998001, 40147998002, 40147998003, 40147998004, 40147998005, 40147998006, 40147998007, 40147998008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<0.33	1.0	04/11/17 07:06	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/11/17 07:06	
Vinyl chloride	ug/L	<0.18	1.0	04/11/17 07:06	
4-Bromofluorobenzene (S)	%	91	70-130	04/11/17 07:06	
Dibromofluoromethane (S)	%	111	70-130	04/11/17 07:06	
Toluene-d8 (S)	%	87	70-130	04/11/17 07:06	

LABORATORY CONTROL SAMPLE: 1488720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.5	111	70-131	
1,1,2-Trichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethane	ug/L	50	55.5	111	70-133	
1,1-Dichloroethene	ug/L	50	57.0	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.3	73	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	46.9	94	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	49.8	100	70-130	
1,2-Dichloropropane	ug/L	50	47.5	95	70-130	
1,3-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.2	94	70-130	
Benzene	ug/L	50	50.5	101	60-135	
Bromodichloromethane	ug/L	50	46.6	93	70-130	
Bromoform	ug/L	50	48.2	96	70-130	
Bromomethane	ug/L	50	42.9	86	33-130	
Carbon disulfide	ug/L	50	60.0	120	70-139	
Carbon tetrachloride	ug/L	50	54.4	109	70-138	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	49.8	100	51-130	
Chloroform	ug/L	50	51.1	102	70-130	
Chloromethane	ug/L	50	51.9	104	25-132	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	69-130	
cis-1,3-Dichloropropene	ug/L	50	38.1	76	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	57.2	114	23-130	
Ethylbenzene	ug/L	50	46.9	94	70-136	
m&p-Xylene	ug/L	100	99.5	99	70-138	
Methyl-tert-butyl ether	ug/L	50	48.2	96	66-138	
Methylene Chloride	ug/L	50	56.8	114	70-130	
o-Xylene	ug/L	50	47.3	95	70-134	
Styrene	ug/L	50	48.0	96	70-133	
Tetrachloroethene	ug/L	50	52.6	105	70-138	
Toluene	ug/L	50	47.5	95	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

LABORATORY CONTROL SAMPLE: 1488720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	58.4	117	70-131	
trans-1,3-Dichloropropene	ug/L	50	35.3	71	69-130	
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	68.5	137	50-150	
Vinyl chloride	ug/L	50	59.9	120	49-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			113	70-130	
Toluene-d8 (S)	%			89	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488721 1488722

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147998004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.9	53.3	104	107	70-134	3	20
1,1,2-Trichloroethane	ug/L	<0.20	50	50	44.8	44.5	90	89	70-130	1	20
1,1-Dichloroethane	ug/L	0.84J	50	50	52.1	55.0	103	108	70-134	5	20
1,1-Dichloroethene	ug/L	<0.41	50	50	53.1	52.2	105	104	68-136	2	20
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	35.8	35.4	72	71	50-150	1	20
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	46.7	46.4	93	93	70-130	1	20
1,2-Dichlorobenzene	ug/L	<0.50	50	50	45.5	45.6	91	91	70-130	0	20
1,2-Dichloroethane	ug/L	<0.17	50	50	42.4	41.6	85	83	70-130	2	20
1,2-Dichloropropane	ug/L	<0.23	50	50	46.4	49.5	93	99	70-130	6	20
1,3-Dichlorobenzene	ug/L	<0.50	50	50	45.4	45.5	91	91	70-131	0	20
1,4-Dichlorobenzene	ug/L	<0.50	50	50	46.9	47.3	94	95	70-130	1	20
Benzene	ug/L	<0.50	50	50	40.0	39.6	80	79	57-138	1	20
Bromodichloromethane	ug/L	<0.50	50	50	45.8	48.9	92	98	70-130	7	20
Bromoform	ug/L	<0.50	50	50	47.7	47.5	95	95	70-130	0	20
Bromomethane	ug/L	<2.4	50	50	42.6	44.0	85	88	33-130	3	27
Carbon disulfide	ug/L	<0.61	50	50	55.0	54.3	110	109	70-153	1	20
Carbon tetrachloride	ug/L	<0.50	50	50	53.7	53.5	107	107	70-138	0	20
Chlorobenzene	ug/L	<0.50	50	50	47.7	47.4	95	95	70-130	1	20
Chloroethane	ug/L	3.6	50	50	48.6	47.5	90	88	51-130	2	20
Chloroform	ug/L	<2.5	50	50	48.3	49.0	97	98	70-130	1	20
Chloromethane	ug/L	<0.50	50	50	45.8	45.4	92	91	25-132	1	20
cis-1,2-Dichloroethene	ug/L	119	50	50	168	180	97	121	61-140	7	20
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	39.7	42.4	79	85	70-130	6	20
Dibromochloromethane	ug/L	<0.50	50	50	48.4	47.4	97	95	70-130	2	20
Dichlorodifluoromethane	ug/L	<0.22	50	50	47.0	46.7	94	93	23-130	0	20
Ethylbenzene	ug/L	<0.50	50	50	46.5	46.2	93	92	70-138	1	20
m&p-Xylene	ug/L	<1.0	100	100	99.4	98.3	99	98	70-140	1	20
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.6	42.4	89	85	66-139	5	20
Methylene Chloride	ug/L	<0.23	50	50	48.6	47.8	97	96	70-130	2	20
o-Xylene	ug/L	<0.50	50	50	47.2	46.9	94	94	70-134	1	20
Styrene	ug/L	<0.50	50	50	47.8	47.5	96	95	70-138	1	20

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488721		1488722		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40147998004 Result	MS Spike Conc.	MSD Spike Conc.									
Tetrachloroethene	ug/L	<0.50	50	50	53.7	53.5	107	107	70-148	0	20		
Toluene	ug/L	<0.50	50	50	47.2	46.8	94	93	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	4.0	50	50	57.5	52.9	107	98	70-133	8	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	37.3	37.1	75	74	69-130	1	20		
Trichloroethene	ug/L	2.1	50	50	52.0	55.3	100	106	70-131	6	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	62.3	61.7	125	123	50-150	1	20		
Vinyl chloride	ug/L	7.6	50	50	60.8	59.9	106	104	49-133	2	20		
4-Bromofluorobenzene (S)	%						97	96	70-130				
Dibromofluoromethane (S)	%						110	113	70-130				
Toluene-d8 (S)	%						89	90	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252695	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40147912005	

METHOD BLANK: 1490839 Matrix: Water
Associated Lab Samples: 40147912005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/17/17 17:34	

LABORATORY CONTROL SAMPLE: 1490840

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: 1490841 1490842

Parameter	Units	40147857008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/L	11.5	100	124	100	124	113	112	90-110	0	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490843 1490844

Parameter	Units	40147912003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/L	84.7	100	192	100	194	108	110	90-110	1	15	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252777 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
 Associated Lab Samples: 40147998001, 40147998002, 40147998003, 40147998004, 40147998005, 40147998006, 40147998007

METHOD BLANK: 1491354 Matrix: Water
 Associated Lab Samples: 40147998001, 40147998002, 40147998003, 40147998004, 40147998005, 40147998006, 40147998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/18/17 20:02	

LABORATORY CONTROL SAMPLE: 1491355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1491356 1491357

Parameter	Units	40147971004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	55.6	100	100	163	164	107	108	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1491358 1491359

Parameter	Units	40147998004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	43.2	100	100	151	151	108	108	90-110	0	15	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252606

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40147912005, 40147998001, 40147998002, 40147998003

METHOD BLANK: 1490412

Matrix: Water

Associated Lab Samples: 40147912005, 40147998001, 40147998002, 40147998003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	04/13/17 12:17	

LABORATORY CONTROL SAMPLE: 1490413

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490414 1490415

Parameter	Units	40147912003 Result	MS Spike Conc.	MSD Spike Conc.	1490414		1490415		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	942	500	500	1520	1500	115	111	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490416 1490417

Parameter	Units	40147998003 Result	MS Spike Conc.	MSD Spike Conc.	1490416		1490417		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	364	200	200	560	558	98	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

QC Batch: 252607 Analysis Method: EPA 310.2
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
 Associated Lab Samples: 40147998004, 40147998005, 40147998006, 40147998007

METHOD BLANK: 1490418 Matrix: Water
 Associated Lab Samples: 40147998004, 40147998005, 40147998006, 40147998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	04/13/17 12:38	

LABORATORY CONTROL SAMPLE: 1490419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	99.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490420 1490421

Parameter	Units	40147998004 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 ₃ , Dissolved	mg/L	374	200	200	577	582	101	104	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490422 1490423

Parameter	Units	40148133003 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 ₃ , Dissolved	mg/L	15.3J	100	100	110	111	95	96	90-110	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

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

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 WELLS 04/17

Pace Project No.: 40147998

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147912005	MW-1B	EPA 6010	252510		
40147998001	P-402E	EPA 6010	252510		
40147998002	P-422B	EPA 6010	252510		
40147998003	P-423D	EPA 6010	252510		
40147998004	P-424D	EPA 6010	252512		
40147998005	P-424SS	EPA 6010	252512		
40147998006	P-426D	EPA 6010	252512		
40147998007	P-424SS DUP	EPA 6010	252512		
40147912005	MW-1B	EPA 8260	252206		
40147998001	P-402E	EPA 8260	252232		
40147998002	P-422B	EPA 8260	252232		
40147998003	P-423D	EPA 8260	252232		
40147998004	P-424D	EPA 8260	252232		
40147998005	P-424SS	EPA 8260	252232		
40147998006	P-426D	EPA 8260	252232		
40147998007	P-424SS DUP	EPA 8260	252232		
40147998008	TRIP BLANK	EPA 8260	252232		
40147912005	MW-1B				
40147998001	P-402E				
40147998002	P-422B				
40147998003	P-423D				
40147998004	P-424D				
40147998005	P-424SS				
40147998006	P-426D				
40147998007	P-424SS DUP				
40147998010	P-401D				
40147998011	P-402E				
40147998012	P-422B				
40147998013	P-423D				
40147998014	P-424D				
40147998015	P-424SS				
40147998016	P-426D				
40147998017	MW-1B				
40147912005	MW-1B	EPA 300.0	252695		
40147998001	P-402E	EPA 300.0	252777		
40147998002	P-422B	EPA 300.0	252777		
40147998003	P-423D	EPA 300.0	252777		
40147998004	P-424D	EPA 300.0	252777		
40147998005	P-424SS	EPA 300.0	252777		
40147998006	P-426D	EPA 300.0	252777		
40147998007	P-424SS DUP	EPA 300.0	252777		
40147912005	MW-1B	EPA 310.2	252606		
40147998001	P-402E	EPA 310.2	252606		
40147998002	P-422B	EPA 310.2	252606		
40147998003	P-423D	EPA 310.2	252606		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS 04/17

Pace Project No.: 40147998

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147998004	P-424D	EPA 310.2	252607		
40147998005	P-424SS	EPA 310.2	252607		
40147998006	P-426D	EPA 310.2	252607		
40147998007	P-424SS DUP	EPA 310.2	252607		

REPORT OF LABORATORY ANALYSIS

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40147998
Page 49 of 53

Section A Required Client Information: ADS Glacier Ridge
Section B Required Project Information: Report To: Same
Section C Invoice Information: Attention: Same

N7296 Hwy V
Horicon, WI 53032
Copy To: Frank Perugini - ESC, Mari Bull - SCS, Sherri Clark - SCS
Company Name:
Address:
Purchase Order No.:
Pace Quote Reference:
Pace Project Manager: Cindy Varga
Pace Profile #: ~~XXXXXX~~

Phone: Fax:
Project Name: LGR
Requested Due Date/TAT: Project Number:

ITEM #	Section D Required Client Information SAMPLE ID One Character Per box. (A-Z, 0-9 / -)	Valid Matrix Codes		CODE	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			Requested	Regulatory Agency	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
		DRINKING WATER	WASTE WATER				COMPOSITE START DATE	COMPOSITE END/GRAB DATE	HCL			Unpreserved	Ant	Requested						
1	P-401D	6W6	4/17	1340	133	5	3	1F	1F	1F	3	1F	1F	1F	2.250ml					
2	P-403E	6W6	4/17	1410	124	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
3	P-402B	6W6	4/17	1150	143	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
4	P-403D	6W6	4/17	1045	128	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
5	P-404D	6W6	4/17	1230	140	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
6	P-40455	6W6	4/17	1045	128	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
7	P-406D	6W6	4/17	1045	128	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
8	Dupe 1	6W6	4/17	1045	128	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
9	TRIP Blank	6W6	4/17	1045	128	5	3	1F	1F	1F	3	1F	1F	1F	3.250ml					
10																				
11																				
12																				

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	4/17	1200	<i>[Signature]</i>	4/18	0740	Y/N
<i>[Signature]</i>	4/18	0740	<i>[Signature]</i>	4/18	0740	Y/N

Additional Comments:
PW-21RR After only need VOCs

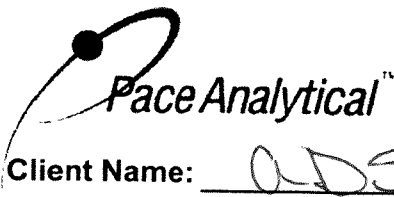
REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

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

Filtered (Y/N): N/N/N
Requested: EPA VOCs
 alk, cl
 6010 hardness
 Residual Chlorine (Y/N)

Pace Project Number: Lab ID:

SAMPLER NAME AND SIGNATURE: *[Signature]*
PRINT Name of SAMPLER: Scott Feinick
SIGNATURE of SAMPLER: *[Signature]*
DATE Signed (MM/DD/YY): 4/17



Sample Condition Upon Receipt

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

Client Name: ADS

Project #:

WO#: 40147998

Courier: Fed Ex UPS Client Pace Other: Wal-Mart
Tracking #: 13305711



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: ROI /Corr:

Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:

Date: 4.8.17

Initials: MAA

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, and Trip Blank Present.

Client Notification/ Resolution:

Person Contacted: Date/Time: If checked, see attached form for additional comments

Comments/ Resolution:

Project Manager Review: CA

Date: 5/10/17

4014792
Page 52 of 53

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

ADS Glacier Ridge
Report To: Same
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Cindy Varga
Pace Profile #: 4172

Section D Required Client Information
SAMPLE ID
One Character per box.
(A-Z, 0-9, -)
Samples IDs MUST BE UNIQUE

ITEM #	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	#OF CONTAINERS			REGULATORY AGENCY	SAMPLER NAME AND SIGNATURE	DATE	TIME	SAMPLE CONDITIONS		
			DATE	TIME	DATE	TIME		HN03	Unpreserved	HCL					Temp in °C	Received on Ice	Custody Sealed Cooler
1	A-3A	W	4/6	10:00	4/6	10:00	16.6				BRUNO FRITZSCH	4/17	0855	80.5	Y/N	Y/N	Y/N
2	MW-204A	W	4/17	0855	4/17	0855	80.5				BRUNO FRITZSCH	4/17	0855	80.5	Y/N	Y/N	Y/N
3	MW-1RR	W	4/17	0855	4/17	0855	80.5				BRUNO FRITZSCH	4/17	0855	80.5	Y/N	Y/N	Y/N
4	MW-1ARR	W	4/17	0855	4/17	0855	80.5				BRUNO FRITZSCH	4/17	0855	80.5	Y/N	Y/N	Y/N
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Additional Comments:
6010 - hardness all except MW-1RR, MW-1AR, W-163, W-163A
6020 - hardness, As - MW-1ARR, MW-1AR, W-163, W-163A
VOCs - MW-1RR, MW-1AR, W-163, W-163A, MW-403, P-403A,
P-406A, P-406B, MW-407, DUP-03, W-158, W-160R, MW-302, MW-306
MW-307, MW-406, DUP-04

** Shared wells Bothers listed on local copy*

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

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

Requested: Filtered (Y/N) Y Y N
dissolved chloride, alk
dissolved 6020/6010
8260 VOC NR507
Residual Chlorine (Y/N)

Pace Project Number Lab ID:

Sample Condition Upon Receipt

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



Client Name: ADS

Project #: WO# : 40147912



Courier: Fed Ex UPS Client Pace Other: Walbro

Tracking #: 1330238

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 ROI /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 4-7-17
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 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. <u>003 collect time 1420</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. <u>HNO3</u> <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>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.
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>375</u> <u>4717 SW</u>	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: SKW

Date: 4/6/17

November 14, 2017

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

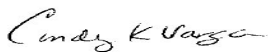
RE: Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between October 06, 2017 and November 14, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
ESC Staff, ESC
Ashley Viney, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158121001	MW-1B	Water	10/05/17 13:20	10/06/17 08:45
40158121002	TRIP BLANK	Water	10/05/17 00:00	10/06/17 08:45
40158227001	P-402E	Water	10/06/17 10:30	10/07/17 08:15
40158227002	P-422B	Water	10/06/17 11:15	10/07/17 08:15
40158227003	P-424SS	Water	10/06/17 13:00	10/07/17 08:15
40158227004	P-424D	Water	10/06/17 13:30	10/07/17 08:15
40158227005	P-423D	Water	10/06/17 14:15	10/07/17 08:15
40158227006	P-401D	Water	10/02/17 00:00	10/07/17 08:15
40159679001	P-426D	Water	10/27/17 11:35	10/28/17 08:10
40159954004	P-402E	Water	10/02/17 00:00	11/14/17 07:44
40159954005	P-422B	Water	10/02/17 00:00	11/14/17 07:44
40159954006	P-423D	Water	10/02/17 00:00	11/14/17 07:44
40159954007	P-424D	Water	10/02/17 00:00	11/14/17 07:44
40159954008	P-424SS	Water	10/02/17 00:00	11/14/17 07:44
40159954009	P-426D	Water	10/02/17 00:00	11/14/17 07:44
40159954010	MW-1B	Water	10/02/17 00:00	11/14/17 07:44

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40158121001	MW-1B	EPA 6010	JLD	1	PASI-G
		EPA 8260	MDS	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158121002	TRIP BLANK	EPA 8260	MDS	46	PASI-G
40158227001	P-402E	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158227002	P-422B	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158227003	P-424SS	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158227004	P-424D	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158227005	P-423D	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40158227006	P-401D		CKV	1	PASI-G
40159679001	P-426D	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			CKV	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40159954004	P-402E		CKV	1	PASI-G
40159954005	P-422B		CKV	1	PASI-G
40159954006	P-423D		CKV	1	PASI-G
40159954007	P-424D		CKV	1	PASI-G
40159954008	P-424SS		CKV	1	PASI-G
40159954009	P-426D		CKV	1	PASI-G
40159954010	MW-1B		CKV	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: **MW-1B** Lab ID: **40158121001** Collected: 10/05/17 13:20 Received: 10/06/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	314000	ug/L	2000	150	1		10/13/17 18:13		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/09/17 19:26	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/09/17 19:26	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/09/17 19:26	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/09/17 19:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/09/17 19:26	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/09/17 19:26	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/09/17 19:26	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/09/17 19:26	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/09/17 19:26	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/09/17 19:26	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/09/17 19:26	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/09/17 19:26	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/09/17 19:26	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/09/17 19:26	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/09/17 19:26	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/09/17 19:26	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/09/17 19:26	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/09/17 19:26	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/09/17 19:26	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/09/17 19:26	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/09/17 19:26	75-69-4	L2
Vinyl chloride	2.0	ug/L	1.0	0.18	1		10/09/17 19:26	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/17 19:26	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/09/17 19:26	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/09/17 19:26	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/17 19:26	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: MW-1B **Lab ID: 40158121001** Collected: 10/05/17 13:20 Received: 10/06/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/09/17 19:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		10/09/17 19:26	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		10/09/17 19:26	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/09/17 19:26	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.32	Std. Units			1		10/05/17 13:20		
Field Specific Conductance	821	umhos/cm			1		10/05/17 13:20		
Turbidity	N	NTU			1		10/05/17 13:20		
Apparent Color	N	no units			1		10/05/17 13:20		
Odor	N	no units			1		10/05/17 13:20		
Temperature, Water (C)	13.6	deg C			1		10/05/17 13:20		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	93.6	mg/L	10.0	2.5	5		10/13/17 16:17	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	212	mg/L	23.5	7.0	1		10/12/17 11:23		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: TRIP BLANK **Lab ID: 40158121002** Collected: 10/05/17 00:00 Received: 10/06/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/09/17 15:49	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/09/17 15:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/09/17 15:49	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/09/17 15:49	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/09/17 15:49	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/09/17 15:49	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/09/17 15:49	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/09/17 15:49	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/09/17 15:49	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/09/17 15:49	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/09/17 15:49	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/09/17 15:49	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/09/17 15:49	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/09/17 15:49	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/09/17 15:49	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/09/17 15:49	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/09/17 15:49	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/09/17 15:49	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/09/17 15:49	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/09/17 15:49	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/09/17 15:49	75-69-4	L2
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/09/17 15:49	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/17 15:49	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/09/17 15:49	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/09/17 15:49	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/17 15:49	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/09/17 15:49	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		10/09/17 15:49	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		10/09/17 15:49	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: TRIP BLANK **Lab ID: 40158121002** Collected: 10/05/17 00:00 Received: 10/06/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		10/09/17 15:49	2037-26-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

Sample: P-402E Lab ID: 40158227001 Collected: 10/06/17 10:30 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	452000	ug/L	2000	150	1		10/13/17 16:35		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		10/10/17 10:23	79-00-5	
1,1-Dichloroethane	0.78J	ug/L	2.5	0.60	2.5		10/10/17 10:23	75-34-3	
1,1-Dichloroethene	1.5J	ug/L	2.5	1.0	2.5		10/10/17 10:23	75-35-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		10/10/17 10:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		10/10/17 10:23	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	95-50-1	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		10/10/17 10:23	107-06-2	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		10/10/17 10:23	78-87-5	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	106-46-7	
2-Butanone (MEK)	<7.4	ug/L	50.0	7.4	2.5		10/10/17 10:23	78-93-3	
Acetone	<7.4	ug/L	50.0	7.4	2.5		10/10/17 10:23	67-64-1	
Benzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	71-43-2	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		10/10/17 10:23	74-83-9	
Carbon disulfide	<1.5	ug/L	12.5	1.5	2.5		10/10/17 10:23	75-15-0	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	56-23-5	L1
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	108-90-7	
Chloroethane	5.2	ug/L	2.5	0.94	2.5		10/10/17 10:23	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		10/10/17 10:23	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	74-87-3	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	124-48-1	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		10/10/17 10:23	74-95-3	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		10/10/17 10:23	75-71-8	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	100-41-4	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		10/10/17 10:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		10/10/17 10:23	75-09-2	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		10/10/17 10:23	91-20-3	
Styrene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	100-42-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	127-18-4	
Tetrahydrofuran	<5.1	ug/L	12.5	5.1	2.5		10/10/17 10:23	109-99-9	
Toluene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	108-88-3	
Trichloroethene	3.5	ug/L	2.5	0.83	2.5		10/10/17 10:23	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		10/10/17 10:23	75-69-4	
Vinyl chloride	27.2	ug/L	2.5	0.44	2.5		10/10/17 10:23	75-01-4	
cis-1,2-Dichloroethene	290	ug/L	2.5	0.64	2.5		10/10/17 10:23	156-59-2	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	10061-01-5	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		10/10/17 10:23	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		10/10/17 10:23	95-47-6	
trans-1,2-Dichloroethene	11.5	ug/L	2.5	0.64	2.5		10/10/17 10:23	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-402E **Lab ID: 40158227001** Collected: 10/06/17 10:30 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		10/10/17 10:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		2.5		10/10/17 10:23	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		2.5		10/10/17 10:23	1868-53-7	
Toluene-d8 (S)	89	%	70-130		2.5		10/10/17 10:23	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.58	Std. Units			1		10/06/17 10:30		
Field Specific Conductance	818	umhos/cm			1		10/06/17 10:30		
Turbidity	N	NTU			1		10/06/17 10:30		
Apparent Color	N	no units			1		10/06/17 10:30		
Odor	N	no units			1		10/06/17 10:30		
Temperature, Water (C)	14.4	deg C			1		10/06/17 10:30		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	58.4	mg/L	10.0	2.5	5		10/16/17 20:58	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	379	mg/L	47.0	14.1	2		10/12/17 11:43		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: **P-422B** Lab ID: **40158227002** Collected: 10/06/17 11:15 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	166000	ug/L	2000	150	1		10/13/17 16:38		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/17 14:08	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/17 14:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/17 14:08	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/17 14:08	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/17 14:08	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/17 14:08	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/17 14:08	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/10/17 14:08	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/10/17 14:08	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/17 14:08	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/10/17 14:08	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	56-23-5	L1
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/17 14:08	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/17 14:08	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/17 14:08	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/17 14:08	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/17 14:08	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/17 14:08	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/17 14:08	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/17 14:08	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/17 14:08	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/17 14:08	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/17 14:08	75-01-4	
cis-1,2-Dichloroethene	0.85J	ug/L	1.0	0.26	1		10/10/17 14:08	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/17 14:08	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:08	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/17 14:08	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-422B **Lab ID: 40158227002** Collected: 10/06/17 11:15 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/17 14:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	61-130		1		10/10/17 14:08	460-00-4	
Dibromofluoromethane (S)	121	%	67-130		1		10/10/17 14:08	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		10/10/17 14:08	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.36	Std. Units			1		10/06/17 11:15		
Field Specific Conductance	431	umhos/cm			1		10/06/17 11:15		
Turbidity	N	NTU			1		10/06/17 11:15		
Apparent Color	N	no units			1		10/06/17 11:15		
Odor	N	no units			1		10/06/17 11:15		
Temperature, Water (C)	14.4	deg C			1		10/06/17 11:15		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	10.0	mg/L	2.0	0.50	1		10/16/17 21:08	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	212	mg/L	23.5	7.0	1		10/12/17 11:43		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424SS Lab ID: 40158227003 Collected: 10/06/17 13:00 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	306000	ug/L	2000	150	1		10/13/17 16:40		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/17 14:30	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/17 14:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/17 14:30	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/17 14:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/17 14:30	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/17 14:30	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/17 14:30	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/10/17 14:30	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/10/17 14:30	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/17 14:30	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/10/17 14:30	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	56-23-5	L1
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/17 14:30	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/17 14:30	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/17 14:30	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/17 14:30	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/17 14:30	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/17 14:30	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/17 14:30	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/17 14:30	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/17 14:30	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/17 14:30	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/17 14:30	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/17 14:30	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/17 14:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:30	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/17 14:30	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424SS **Lab ID: 40158227003** Collected: 10/06/17 13:00 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/17 14:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		10/10/17 14:30	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		10/10/17 14:30	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		10/10/17 14:30	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.13	Std. Units			1		10/06/17 13:00		
Field Specific Conductance	529	umhos/cm			1		10/06/17 13:00		
Turbidity	N	NTU			1		10/06/17 13:00		
Apparent Color	N	no units			1		10/06/17 13:00		
Odor	N	no units			1		10/06/17 13:00		
Temperature, Water (C)	13.5	deg C			1		10/06/17 13:00		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	0.80J	mg/L	2.0	0.50	1		10/16/17 21:19	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	310	mg/L	47.0	14.1	2		10/12/17 11:44		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424D **Lab ID: 40158227004** Collected: 10/06/17 13:30 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	452000	ug/L	2000	150	1		10/13/17 16:42		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/17 14:53	79-00-5	
1,1-Dichloroethane	1.0	ug/L	1.0	0.24	1		10/10/17 14:53	75-34-3	
1,1-Dichloroethene	0.51J	ug/L	1.0	0.41	1		10/10/17 14:53	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/17 14:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/17 14:53	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/17 14:53	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/17 14:53	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/10/17 14:53	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/10/17 14:53	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/17 14:53	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/10/17 14:53	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	56-23-5	L1
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	108-90-7	
Chloroethane	3.1	ug/L	1.0	0.37	1		10/10/17 14:53	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/17 14:53	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/17 14:53	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/17 14:53	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/17 14:53	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/17 14:53	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/17 14:53	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/17 14:53	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	108-88-3	
Trichloroethene	2.0	ug/L	1.0	0.33	1		10/10/17 14:53	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/17 14:53	75-69-4	
Vinyl chloride	9.4	ug/L	1.0	0.18	1		10/10/17 14:53	75-01-4	
cis-1,2-Dichloroethene	151	ug/L	1.0	0.26	1		10/10/17 14:53	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/17 14:53	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/17 14:53	95-47-6	
trans-1,2-Dichloroethene	4.7	ug/L	1.0	0.26	1		10/10/17 14:53	156-60-5	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424D **Lab ID: 40158227004** Collected: 10/06/17 13:30 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/17 14:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		10/10/17 14:53	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		10/10/17 14:53	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		10/10/17 14:53	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.02	Std. Units			1		10/06/17 13:30		
Field Specific Conductance	766	umhos/cm			1		10/06/17 13:30		
Turbidity	N	NTU			1		10/06/17 13:30		
Apparent Color	N	no units			1		10/06/17 13:30		
Odor	N	no units			1		10/06/17 13:30		
Temperature, Water (C)	12.8	deg C			1		10/06/17 13:30		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	43.2	mg/L	2.0	0.50	1		10/16/17 21:29	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	369	mg/L	23.5	7.0	1		10/13/17 10:04		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-423D Lab ID: 40158227005 Collected: 10/06/17 14:15 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	432000	ug/L	2000	150	1		10/13/17 16:45		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/17 15:15	79-00-5	
1,1-Dichloroethane	0.38J	ug/L	1.0	0.24	1		10/10/17 15:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/17 15:15	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/17 15:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/17 15:15	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/17 15:15	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/17 15:15	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/10/17 15:15	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/10/17 15:15	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/17 15:15	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/10/17 15:15	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	56-23-5	L1
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	108-90-7	
Chloroethane	2.1	ug/L	1.0	0.37	1		10/10/17 15:15	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/17 15:15	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/17 15:15	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/17 15:15	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/17 15:15	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/17 15:15	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/17 15:15	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/17 15:15	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	108-88-3	
Trichloroethene	0.59J	ug/L	1.0	0.33	1		10/10/17 15:15	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/17 15:15	75-69-4	
Vinyl chloride	2.5	ug/L	1.0	0.18	1		10/10/17 15:15	75-01-4	
cis-1,2-Dichloroethene	58.6	ug/L	1.0	0.26	1		10/10/17 15:15	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/17 15:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/17 15:15	95-47-6	
trans-1,2-Dichloroethene	3.1	ug/L	1.0	0.26	1		10/10/17 15:15	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

Sample: P-423D **Lab ID: 40158227005** Collected: 10/06/17 14:15 Received: 10/07/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/17 15:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	61-130		1		10/10/17 15:15	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		10/10/17 15:15	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		10/10/17 15:15	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.32	Std. Units			1		10/06/17 14:15		
Field Specific Conductance	741	umhos/cm			1		10/06/17 14:15		
Turbidity	N	NTU			1		10/06/17 14:15		
Apparent Color	N	no units			1		10/06/17 14:15		
Odor	N	no units			1		10/06/17 14:15		
Temperature, Water (C)	13.7	deg C			1		10/06/17 14:15		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	34.8	mg/L	2.0	0.50	1		10/16/17 21:40	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	354	mg/L	23.5	7.0	1		10/13/17 10:05		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-401D **Lab ID: 40158227006** Collected: 10/02/17 00:00 Received: 10/07/17 08:15 Matrix: Water

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

Analytical Method:

Static Water Level	852.74	feet			1		11/14/17 07:41		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-426D **Lab ID: 40159679001** Collected: 10/27/17 11:35 Received: 10/28/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	480000	ug/L	2000	150	1		11/03/17 16:09		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/31/17 16:03	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/31/17 16:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/31/17 16:03	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/31/17 16:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/31/17 16:03	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/31/17 16:03	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/31/17 16:03	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		10/31/17 16:03	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		10/31/17 16:03	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/31/17 16:03	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		10/31/17 16:03	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/31/17 16:03	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/31/17 16:03	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/31/17 16:03	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/31/17 16:03	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/31/17 16:03	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/31/17 16:03	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/31/17 16:03	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/31/17 16:03	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/31/17 16:03	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/31/17 16:03	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/31/17 16:03	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/31/17 16:03	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/17 16:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/17 16:03	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/31/17 16:03	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-426D **Lab ID: 40159679001** Collected: 10/27/17 11:35 Received: 10/28/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/31/17 16:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		10/31/17 16:03	460-00-4	
Dibromofluoromethane (S)	93	%	67-130		1		10/31/17 16:03	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/31/17 16:03	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.16	Std. Units			1		10/27/17 11:35		
Field Specific Conductance	770	umhos/cm			1		10/27/17 11:35		
Turbidity	N	NTU			1		10/27/17 11:35		
Apparent Color	N	no units			1		10/27/17 11:35		
Odor	N	no units			1		10/27/17 11:35		
Temperature, Water (C)	12.1	deg C			1		10/27/17 11:35		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	44.4	mg/L	2.0	0.50	1		11/07/17 14:13	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	334	mg/L	23.5	7.0	1		11/02/17 11:49		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-402E **Lab ID: 40159954004** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

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

Static Water Level	852.73	feet			1		10/02/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-422B **Lab ID: 40159954005** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
	Analytical Method:								
Static Water Level	927.49	feet			1		10/02/17 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-423D **Lab ID: 40159954006** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Static Water Level	850.87	feet			1		10/02/17 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424D **Lab ID: 40159954007** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

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

Static Water Level	851.50	feet			1		10/02/17 00:00		
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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-424SS **Lab ID: 40159954008** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Static Water Level	851.03	feet			1		10/02/17 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: P-426D **Lab ID: 40159954009** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Static Water Level	851.88	feet			1		10/02/17 00:00		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Sample: MW-1B **Lab ID: 40159954010** Collected: 10/02/17 00:00 Received: 11/14/17 07:44 Matrix: Water

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

Static Water Level	926.13	feet			1		10/02/17 00:00		
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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 270499

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40158121001

METHOD BLANK: 1589806

Matrix: Water

Associated Lab Samples: 40158121001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	10/13/17 18:08	

LABORATORY CONTROL SAMPLE: 1589807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32100			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589808 1589809

Parameter	Units	40158121001		1589809		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				RPD	RPD	
Total Hardness by 2340B, Dissolved	ug/L	314000		344000	344000				0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 270500

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

METHOD BLANK: 1589810

Matrix: Water

Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	10/13/17 15:58	

LABORATORY CONTROL SAMPLE: 1589811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		30900			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589812 1589813

Parameter	Units	40158163008		1589812		1589813		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Total Hardness by 2340B, Dissolved	ug/L	276000		305000		303000			1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 272667

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40159679001

METHOD BLANK: 1603721

Matrix: Water

Associated Lab Samples: 40159679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	11/03/17 15:31	

LABORATORY CONTROL SAMPLE: 1603722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33400			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1603723 1603724

Parameter	Units	1603723		1603724		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Hardness by 2340B, Dissolved	ug/L	40159626001	1210000	1220000	1200000				2	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 269830

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40158121001, 40158121002

METHOD BLANK: 1586191

Matrix: Water

Associated Lab Samples: 40158121001, 40158121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/09/17 11:26	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/09/17 11:26	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/09/17 11:26	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/09/17 11:26	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/09/17 11:26	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/09/17 11:26	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/09/17 11:26	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/09/17 11:26	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/09/17 11:26	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/09/17 11:26	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/09/17 11:26	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/09/17 11:26	
Acetone	ug/L	<3.0	20.0	10/09/17 11:26	
Benzene	ug/L	<0.50	1.0	10/09/17 11:26	
Bromodichloromethane	ug/L	<0.50	1.0	10/09/17 11:26	
Bromoform	ug/L	<0.50	1.0	10/09/17 11:26	
Bromomethane	ug/L	<2.4	5.0	10/09/17 11:26	
Carbon disulfide	ug/L	<0.61	5.0	10/09/17 11:26	
Carbon tetrachloride	ug/L	<0.50	1.0	10/09/17 11:26	
Chlorobenzene	ug/L	<0.50	1.0	10/09/17 11:26	
Chloroethane	ug/L	<0.37	1.0	10/09/17 11:26	
Chloroform	ug/L	<2.5	5.0	10/09/17 11:26	
Chloromethane	ug/L	<0.50	1.0	10/09/17 11:26	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/09/17 11:26	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/09/17 11:26	
Dibromochloromethane	ug/L	<0.50	1.0	10/09/17 11:26	
Dibromomethane	ug/L	<0.43	1.0	10/09/17 11:26	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/09/17 11:26	
Ethylbenzene	ug/L	<0.50	1.0	10/09/17 11:26	
m&p-Xylene	ug/L	<1.0	2.0	10/09/17 11:26	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/09/17 11:26	
Methylene Chloride	ug/L	<0.23	1.0	10/09/17 11:26	
Naphthalene	ug/L	<2.5	5.0	10/09/17 11:26	
o-Xylene	ug/L	<0.50	1.0	10/09/17 11:26	
Styrene	ug/L	<0.50	1.0	10/09/17 11:26	
Tetrachloroethene	ug/L	<0.50	1.0	10/09/17 11:26	
Tetrahydrofuran	ug/L	<2.0	5.0	10/09/17 11:26	
Toluene	ug/L	<0.50	1.0	10/09/17 11:26	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/09/17 11:26	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/09/17 11:26	
Trichloroethene	ug/L	<0.33	1.0	10/09/17 11:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

METHOD BLANK: 1586191

Matrix: Water

Associated Lab Samples: 40158121001, 40158121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	10/09/17 11:26	
Vinyl chloride	ug/L	<0.18	1.0	10/09/17 11:26	
4-Bromofluorobenzene (S)	%	81	61-130	10/09/17 11:26	
Dibromofluoromethane (S)	%	107	67-130	10/09/17 11:26	
Toluene-d8 (S)	%	98	70-130	10/09/17 11:26	

LABORATORY CONTROL SAMPLE: 1586192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.6	87	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	71-132	
1,1-Dichloroethene	ug/L	50	44.8	90	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.0	90	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	38.1	76	70-131	
1,2-Dichloropropane	ug/L	50	50.7	101	80-120	
1,3-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	50.1	100	70-130	
Benzene	ug/L	50	48.9	98	73-145	
Bromodichloromethane	ug/L	50	47.7	95	70-130	
Bromoform	ug/L	50	49.3	99	67-130	
Bromomethane	ug/L	50	36.8	74	26-128	
Carbon disulfide	ug/L	50	47.3	95	72-156	
Carbon tetrachloride	ug/L	50	44.8	90	70-133	
Chlorobenzene	ug/L	50	54.0	108	70-130	
Chloroethane	ug/L	50	42.9	86	58-120	
Chloroform	ug/L	50	49.0	98	80-121	
Chloromethane	ug/L	50	29.0	58	40-127	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	70-130	
Dibromochloromethane	ug/L	50	47.6	95	70-130	
Dichlorodifluoromethane	ug/L	50	28.3	57	20-135	
Ethylbenzene	ug/L	50	54.2	108	87-129	
m&p-Xylene	ug/L	100	117	117	70-130	
Methyl-tert-butyl ether	ug/L	50	46.1	92	66-143	
Methylene Chloride	ug/L	50	49.1	98	70-130	
o-Xylene	ug/L	50	55.3	111	70-130	
Styrene	ug/L	50	55.1	110	70-130	
Tetrachloroethene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	55.0	110	82-130	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	75-132	
trans-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

LABORATORY CONTROL SAMPLE: 1586192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	37.1	74	76-133	L2
Vinyl chloride	ug/L	50	35.1	70	57-136	
4-Bromofluorobenzene (S)	%			104	61-130	
Dibromofluoromethane (S)	%			94	67-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586451 1586452

Parameter	Units	40158124001		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	43.4	43.6	87	87	70-134	0	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	56.1	54.2	112	108	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	51.9	47.6	104	95	71-133	9	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	41.6	46.7	83	93	75-136	12	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	48.4	44.3	97	89	63-123	9	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	54.0	53.0	108	106	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.4	49.7	99	99	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	38.5	40.6	77	81	70-131	5	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	54.8	55.5	110	111	80-120	1	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.1	50.2	102	100	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.5	51.6	103	103	70-130	0	20		
Benzene	ug/L	<0.50	50	50	48.4	48.7	97	97	73-145	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	50.2	51.6	100	103	70-130	3	20		
Bromoform	ug/L	<0.50	50	50	51.6	48.7	103	97	67-130	6	20		
Bromomethane	ug/L	<2.4	50	50	32.9	32.2	66	64	26-129	2	20		
Carbon disulfide	ug/L	<0.61	50	50	42.8	47.3	86	95	72-156	10	30		
Carbon tetrachloride	ug/L	<0.50	50	50	45.1	46.9	90	94	70-134	4	20		
Chlorobenzene	ug/L	<0.50	50	50	53.7	53.2	107	106	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	37.3	41.5	75	83	58-120	11	20		
Chloroform	ug/L	<2.5	50	50	47.6	47.2	95	94	80-121	1	20		
Chloromethane	ug/L	<0.50	50	50	20.7	21.3	41	43	40-128	3	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.2	45.5	106	91	70-130	16	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	49.6	46.7	99	93	70-130	6	20		
Dibromochloromethane	ug/L	<0.50	50	50	48.5	46.4	97	93	70-130	4	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	12.2	13.2	24	26	20-146	7	20		
Ethylbenzene	ug/L	<0.50	50	50	53.7	52.7	107	105	87-129	2	20		
m&p-Xylene	ug/L	<1.0	100	100	114	111	114	111	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.3	45.8	99	92	66-143	7	20		
Methylene Chloride	ug/L	<0.23	50	50	49.9	53.7	100	107	70-130	7	20		
o-Xylene	ug/L	<0.50	50	50	55.2	55.1	110	110	70-130	0	20		
Styrene	ug/L	<0.50	50	50	55.5	53.1	111	106	70-130	4	20		
Tetrachloroethene	ug/L	<0.50	50	50	49.2	47.0	98	94	70-130	4	20		
Toluene	ug/L	<0.50	50	50	54.1	53.9	108	108	82-131	0	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586451		1586452		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40158124001 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.6	53.0	97	106	75-135	9	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	49.8	43.3	100	87	70-130	14	20		
Trichloroethene	ug/L	<0.33	50	50	50.8	51.7	102	103	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	32.9	36.2	66	72	76-150	9	20	M0	
Vinyl chloride	ug/L	<0.18	50	50	27.1	29.2	54	58	56-143	7	20	M1	
4-Bromofluorobenzene (S)	%						104	104	61-130				
Dibromofluoromethane (S)	%						98	98	67-130				
Toluene-d8 (S)	%						104	103	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 269903 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

METHOD BLANK: 1586466 Matrix: Water
 Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/10/17 07:45	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/10/17 07:45	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/10/17 07:45	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/10/17 07:45	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/10/17 07:45	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/10/17 07:45	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/10/17 07:45	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/10/17 07:45	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/10/17 07:45	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/10/17 07:45	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/10/17 07:45	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/10/17 07:45	
Acetone	ug/L	<3.0	20.0	10/10/17 07:45	
Benzene	ug/L	<0.50	1.0	10/10/17 07:45	
Bromodichloromethane	ug/L	<0.50	1.0	10/10/17 07:45	
Bromoform	ug/L	<0.50	1.0	10/10/17 07:45	
Bromomethane	ug/L	<2.4	5.0	10/10/17 07:45	
Carbon disulfide	ug/L	<0.61	5.0	10/10/17 07:45	
Carbon tetrachloride	ug/L	<0.50	1.0	10/10/17 07:45	
Chlorobenzene	ug/L	<0.50	1.0	10/10/17 07:45	
Chloroethane	ug/L	<0.37	1.0	10/10/17 07:45	
Chloroform	ug/L	<2.5	5.0	10/10/17 07:45	
Chloromethane	ug/L	<0.50	1.0	10/10/17 07:45	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/10/17 07:45	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/10/17 07:45	
Dibromochloromethane	ug/L	<0.50	1.0	10/10/17 07:45	
Dibromomethane	ug/L	<0.43	1.0	10/10/17 07:45	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/10/17 07:45	
Ethylbenzene	ug/L	<0.50	1.0	10/10/17 07:45	
m&p-Xylene	ug/L	<1.0	2.0	10/10/17 07:45	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/10/17 07:45	
Methylene Chloride	ug/L	<0.23	1.0	10/10/17 07:45	
Naphthalene	ug/L	<2.5	5.0	10/10/17 07:45	
o-Xylene	ug/L	<0.50	1.0	10/10/17 07:45	
Styrene	ug/L	<0.50	1.0	10/10/17 07:45	
Tetrachloroethene	ug/L	<0.50	1.0	10/10/17 07:45	
Tetrahydrofuran	ug/L	<2.0	5.0	10/10/17 07:45	
Toluene	ug/L	<0.50	1.0	10/10/17 07:45	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/10/17 07:45	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/10/17 07:45	
Trichloroethene	ug/L	<0.33	1.0	10/10/17 07:45	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

METHOD BLANK: 1586466

Matrix: Water

Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	10/10/17 07:45	
Vinyl chloride	ug/L	<0.18	1.0	10/10/17 07:45	
4-Bromofluorobenzene (S)	%	85	61-130	10/10/17 07:45	
Dibromofluoromethane (S)	%	112	67-130	10/10/17 07:45	
Toluene-d8 (S)	%	93	70-130	10/10/17 07:45	

LABORATORY CONTROL SAMPLE: 1586467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1,2-Trichloroethane	ug/L	50	43.2	86	70-130	
1,1-Dichloroethane	ug/L	50	52.7	105	71-132	
1,1-Dichloroethene	ug/L	50	51.6	103	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	54.1	108	70-131	
1,2-Dichloropropane	ug/L	50	46.1	92	80-120	
1,3-Dichlorobenzene	ug/L	50	54.4	109	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	47.6	95	73-145	
Bromodichloromethane	ug/L	50	54.9	110	70-130	
Bromoform	ug/L	50	49.9	100	67-130	
Bromomethane	ug/L	50	32.8	66	26-128	
Carbon disulfide	ug/L	50	43.1	86	72-156	
Carbon tetrachloride	ug/L	50	69.5	139	70-133 L1	
Chlorobenzene	ug/L	50	54.2	108	70-130	
Chloroethane	ug/L	50	36.9	74	58-120	
Chloroform	ug/L	50	54.9	110	80-121	
Chloromethane	ug/L	50	32.6	65	40-127	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	54.9	110	70-130	
Dichlorodifluoromethane	ug/L	50	21.3	43	20-135	
Ethylbenzene	ug/L	50	54.3	109	87-129	
m&p-Xylene	ug/L	100	117	117	70-130	
Methyl-tert-butyl ether	ug/L	50	46.4	93	66-143	
Methylene Chloride	ug/L	50	53.0	106	70-130	
o-Xylene	ug/L	50	57.8	116	70-130	
Styrene	ug/L	50	57.4	115	70-130	
Tetrachloroethene	ug/L	50	56.5	113	70-130	
Toluene	ug/L	50	49.1	98	82-130	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	75-132	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

LABORATORY CONTROL SAMPLE: 1586467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	55.2	110	70-130	
Trichlorofluoromethane	ug/L	50	52.8	106	76-133	
Vinyl chloride	ug/L	50	31.8	64	57-136	
4-Bromofluorobenzene (S)	%			102	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586581 1586582

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40158144005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<1.0	50	50	56.4	52.0	113	104	70-134	8	20	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	39.1	38.3	78	77	70-130	2	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	50.9	49.2	102	98	71-133	3	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	48.3	43.2	97	86	75-136	11	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	45.2	45.9	90	92	63-123	2	20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	45.4	41.3	91	83	70-130	9	20	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	51.3	48.2	103	96	70-130	6	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	52.0	48.1	104	96	70-131	8	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	44.5	42.5	89	85	80-120	5	20	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	52.1	51.3	104	102	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	52.9	50.0	106	100	70-130	6	20	
Benzene	ug/L	<1.0	50	50	45.8	42.8	92	86	73-145	7	20	
Bromodichloromethane	ug/L	<1.0	50	50	51.5	49.9	103	100	70-130	3	20	
Bromoform	ug/L	<1.0	50	50	49.1	49.1	98	98	67-130	0	20	
Bromomethane	ug/L	<5.0	50	50	33.8	30.4	68	61	26-129	11	20	
Carbon disulfide	ug/L	<5.0	50	50	43.7	41.1	87	82	72-156	6	30	
Carbon tetrachloride	ug/L	<1.0	50	50	66.0	62.0	132	124	70-134	6	20	
Chlorobenzene	ug/L	<1.0	50	50	52.1	48.2	104	96	70-130	8	20	
Chloroethane	ug/L	<1.0	50	50	32.6	32.5	65	65	58-120	1	20	
Chloroform	ug/L	<5.0	50	50	54.4	49.7	109	99	80-121	9	20	
Chloromethane	ug/L	<1.0	50	50	33.5	29.5	67	59	40-128	13	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	48.1	44.2	96	88	70-130	8	20	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	47.9	43.2	96	86	70-130	10	20	
Dibromochloromethane	ug/L	<1.0	50	50	54.3	50.0	109	100	70-130	8	20	
Dichlorodifluoromethane	ug/L	<1.0	50	50	20.0	17.9	40	36	20-146	11	20	
Ethylbenzene	ug/L	<1.0	50	50	51.2	47.7	102	95	87-129	7	20	
m&p-Xylene	ug/L	<2.0	100	100	105	100	105	100	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	43.4	41.7	87	83	66-143	4	20	
Methylene Chloride	ug/L	<1.0	50	50	51.9	47.0	104	94	70-130	10	20	
o-Xylene	ug/L	<1.0	50	50	53.9	48.4	108	97	70-130	11	20	
Styrene	ug/L	<1.0	50	50	52.1	48.9	104	98	70-130	6	20	
Tetrachloroethene	ug/L	<1.0	50	50	54.1	50.2	108	100	70-130	7	20	
Toluene	ug/L	<1.0	50	50	47.3	46.9	95	94	82-131	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586581		1586582		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40158144005 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	50.9	48.7	102	97	75-135	4	20		
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	46.8	42.7	94	85	70-130	9	20		
Trichloroethene	ug/L	<1.0	50	50	51.6	50.2	103	100	70-130	3	20		
Trichlorofluoromethane	ug/L	<1.0	50	50	51.0	46.8	102	94	76-150	9	20		
Vinyl chloride	ug/L	<1.0	50	50	32.2	28.0	64	56	56-143	14	20		
4-Bromofluorobenzene (S)	%						97	94	61-130				
Dibromofluoromethane (S)	%						111	109	67-130				
Toluene-d8 (S)	%						96	93	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

QC Batch: 272283 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40159679001

METHOD BLANK: 1601759 Matrix: Water
Associated Lab Samples: 40159679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/31/17 07:48	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/31/17 07:48	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/31/17 07:48	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/31/17 07:48	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/31/17 07:48	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/31/17 07:48	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/31/17 07:48	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/31/17 07:48	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/31/17 07:48	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/31/17 07:48	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/31/17 07:48	
2-Butanone (MEK)	ug/L	<3.0	20.0	10/31/17 07:48	
Acetone	ug/L	<3.0	20.0	10/31/17 07:48	
Benzene	ug/L	<0.50	1.0	10/31/17 07:48	
Bromodichloromethane	ug/L	<0.50	1.0	10/31/17 07:48	
Bromoform	ug/L	<0.50	1.0	10/31/17 07:48	
Bromomethane	ug/L	<2.4	5.0	10/31/17 07:48	
Carbon disulfide	ug/L	<0.61	5.0	10/31/17 07:48	
Carbon tetrachloride	ug/L	<0.50	1.0	10/31/17 07:48	
Chlorobenzene	ug/L	<0.50	1.0	10/31/17 07:48	
Chloroethane	ug/L	<0.37	1.0	10/31/17 07:48	
Chloroform	ug/L	<2.5	5.0	10/31/17 07:48	
Chloromethane	ug/L	<0.50	1.0	10/31/17 07:48	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/31/17 07:48	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/31/17 07:48	
Dibromochloromethane	ug/L	<0.50	1.0	10/31/17 07:48	
Dibromomethane	ug/L	<0.43	1.0	10/31/17 07:48	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/31/17 07:48	
Ethylbenzene	ug/L	<0.50	1.0	10/31/17 07:48	
m&p-Xylene	ug/L	<1.0	2.0	10/31/17 07:48	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/31/17 07:48	
Methylene Chloride	ug/L	<0.23	1.0	10/31/17 07:48	
Naphthalene	ug/L	<2.5	5.0	10/31/17 07:48	
o-Xylene	ug/L	<0.50	1.0	10/31/17 07:48	
Styrene	ug/L	<0.50	1.0	10/31/17 07:48	
Tetrachloroethene	ug/L	<0.50	1.0	10/31/17 07:48	
Tetrahydrofuran	ug/L	<2.0	5.0	10/31/17 07:48	
Toluene	ug/L	<0.50	1.0	10/31/17 07:48	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/31/17 07:48	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/31/17 07:48	
Trichloroethene	ug/L	<0.33	1.0	10/31/17 07:48	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

METHOD BLANK: 1601759

Matrix: Water

Associated Lab Samples: 40159679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	10/31/17 07:48	
Vinyl chloride	ug/L	<0.18	1.0	10/31/17 07:48	
4-Bromofluorobenzene (S)	%	86	61-130	10/31/17 07:48	
Dibromofluoromethane (S)	%	93	67-130	10/31/17 07:48	
Toluene-d8 (S)	%	103	70-130	10/31/17 07:48	

LABORATORY CONTROL SAMPLE: 1601760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	49.6	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	49.6	50.3	101	70-130	
1,1-Dichloroethane	ug/L	49.6	56.3	113	71-132	
1,1-Dichloroethene	ug/L	49.6	52.3	105	75-130	
1,2-Dibromo-3-chloropropane	ug/L	49.6	46.5	94	63-123	
1,2-Dibromoethane (EDB)	ug/L	49.6	49.6	100	70-130	
1,2-Dichlorobenzene	ug/L	49.6	51.6	104	70-130	
1,2-Dichloroethane	ug/L	49.6	48.7	98	70-131	
1,2-Dichloropropane	ug/L	49.6	49.0	99	80-120	
1,3-Dichlorobenzene	ug/L	49.6	52.6	106	70-130	
1,4-Dichlorobenzene	ug/L	49.6	51.5	104	70-130	
Benzene	ug/L	49.6	48.7	98	73-145	
Bromodichloromethane	ug/L	49.6	48.6	98	70-130	
Bromoform	ug/L	49.6	44.1	89	67-130	
Bromomethane	ug/L	50	29.8	60	26-128	
Carbon disulfide	ug/L	49.6	51.5	104	72-156	
Carbon tetrachloride	ug/L	49.6	43.1	87	70-133	
Chlorobenzene	ug/L	49.6	52.8	107	70-130	
Chloroethane	ug/L	50	55.5	111	58-120	
Chloroform	ug/L	49.6	48.7	98	80-121	
Chloromethane	ug/L	50	26.2	52	40-127	
cis-1,2-Dichloroethene	ug/L	49.6	44.2	89	70-130	
cis-1,3-Dichloropropene	ug/L	49.6	43.4	87	70-130	
Dibromochloromethane	ug/L	49.6	45.2	91	70-130	
Dichlorodifluoromethane	ug/L	50	26.8	54	20-135	
Ethylbenzene	ug/L	49.6	55.7	112	87-129	
m&p-Xylene	ug/L	99.2	98.3	99	70-130	
Methyl-tert-butyl ether	ug/L	49.6	54.5	110	66-143	
Methylene Chloride	ug/L	49.6	49.2	99	70-130	
o-Xylene	ug/L	49.6	53.6	108	70-130	
Styrene	ug/L	49.6	50.2	101	70-130	
Tetrachloroethene	ug/L	49.6	49.7	100	70-130	
Toluene	ug/L	49.6	52.1	105	82-130	
trans-1,2-Dichloroethene	ug/L	49.6	54.9	111	75-132	
trans-1,3-Dichloropropene	ug/L	49.6	42.9	86	70-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

LABORATORY CONTROL SAMPLE: 1601760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	49.6	51.6	104	70-130	
Trichlorofluoromethane	ug/L	50	58.1	116	76-133	
Vinyl chloride	ug/L	50	49.8	100	57-136	
4-Bromofluorobenzene (S)	%			104	61-130	
Dibromofluoromethane (S)	%			95	67-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1602265 1602266

Parameter	Units	40159614001		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
1,1,1-Trichloroethane	ug/L	<0.50	49.6	49.6	49.6	47.3	40.6	95	82	70-134	15	20	
1,1,2-Trichloroethane	ug/L	<0.20	49.6	49.6	49.6	38.4	38.6	77	78	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.24	49.6	49.6	49.6	56.0	48.1	113	97	71-133	15	20	
1,1-Dichloroethene	ug/L	<0.41	49.6	49.6	49.6	51.9	46.2	105	93	75-136	12	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	49.6	49.6	49.6	29.8	31.7	60	64	63-123	6	20	M1
1,2-Dibromoethane (EDB)	ug/L	<0.18	49.6	49.6	49.6	36.9	37.6	74	76	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	49.6	49.6	49.6	42.2	44.4	85	89	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.17	49.6	49.6	49.6	44.0	37.9	89	76	70-131	15	20	
1,2-Dichloropropane	ug/L	<0.23	49.6	49.6	49.6	44.0	39.9	89	80	80-120	10	20	
1,3-Dichlorobenzene	ug/L	<0.50	49.6	49.6	49.6	43.0	45.9	87	93	70-130	7	20	
1,4-Dichlorobenzene	ug/L	<0.50	49.6	49.6	49.6	41.4	43.9	83	89	70-130	6	20	
Benzene	ug/L	<0.50	49.6	49.6	49.6	46.3	40.9	93	82	73-145	12	20	
Bromodichloromethane	ug/L	<0.50	49.6	49.6	49.6	43.7	39.5	88	80	70-130	10	20	
Bromoform	ug/L	<0.50	49.6	49.6	49.6	33.3	33.1	67	67	67-130	1	20	
Bromomethane	ug/L	<2.4	50	50	50	29.7	27.4	59	55	26-129	8	20	
Carbon disulfide	ug/L	<0.61	49.6	49.6	49.6	50.9	45.9	103	92	72-156	10	30	
Carbon tetrachloride	ug/L	<0.50	49.6	49.6	49.6	42.5	38.2	86	77	70-134	11	20	
Chlorobenzene	ug/L	<0.50	49.6	49.6	49.6	44.8	44.5	90	90	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	50	48.4	41.7	97	83	58-120	15	20	
Chloroform	ug/L	<2.5	49.6	49.6	49.6	47.4	41.4	96	83	80-121	14	20	
Chloromethane	ug/L	<0.50	50	50	50	24.9	22.2	50	44	40-128	12	20	
cis-1,2-Dichloroethene	ug/L	<0.26	49.6	49.6	49.6	43.6	40.0	88	81	70-130	9	20	
cis-1,3-Dichloropropene	ug/L	<0.50	49.6	49.6	49.6	39.2	36.2	79	73	70-130	8	20	
Dibromochloromethane	ug/L	<0.50	49.6	49.6	49.6	35.2	35.2	71	71	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	50	25.7	23.3	51	47	20-146	10	20	
Ethylbenzene	ug/L	<0.50	49.6	49.6	49.6	48.1	47.8	97	96	87-129	1	20	
m&p-Xylene	ug/L	<1.0	99.2	99.2	99.2	85.7	85.8	86	86	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	49.6	49.6	49.6	47.1	42.5	95	86	66-143	10	20	
Methylene Chloride	ug/L	<0.23	49.6	49.6	49.6	48.6	42.5	98	86	70-130	13	20	
o-Xylene	ug/L	<0.50	49.6	49.6	49.6	46.0	46.4	93	94	70-130	1	20	
Styrene	ug/L	<0.50	49.6	49.6	49.6	42.1	42.5	85	86	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	49.6	49.6	49.6	42.5	41.1	86	83	70-130	3	20	
Toluene	ug/L	<0.50	49.6	49.6	49.6	44.2	43.8	89	88	82-131	1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

Parameter	Units	1602265		1602266		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40159614001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<0.26	49.6	49.6	55.1	48.3	111	97	75-135	13	20		
trans-1,3-Dichloropropene	ug/L	<0.23	49.6	49.6	33.8	33.4	68	67	70-130	1	20	M1	
Trichloroethene	ug/L	<0.33	49.6	49.6	47.3	43.0	95	87	70-130	10	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	56.7	43.8	113	88	76-150	26	20	R1	
Vinyl chloride	ug/L	<0.18	50	50	46.9	41.0	94	82	56-143	13	20		
4-Bromofluorobenzene (S)	%						104	101	61-130				
Dibromofluoromethane (S)	%						100	99	67-130				
Toluene-d8 (S)	%						97	102	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 270214	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40158121001	

METHOD BLANK: 1587830 Matrix: Water
Associated Lab Samples: 40158121001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/13/17 13:39	

LABORATORY CONTROL SAMPLE: 1587831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587832 1587833

Parameter	Units	40158115010		1587832		1587833		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Chloride	mg/L	85.3	100	100	188	190	103	105	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587834 1587835

Parameter	Units	40158140002		1587834		1587835		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Chloride	mg/L	123	100	100	222	222	100	99	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 270549

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions, Dissolved

Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

METHOD BLANK: 1590095

Matrix: Water

Associated Lab Samples: 40158227001, 40158227002, 40158227003, 40158227004, 40158227005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/16/17 19:12	

LABORATORY CONTROL SAMPLE: 1590096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1590097 1590098

Parameter	Units	40158163015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.5	20	20	58.4	58.5	94	95	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1590099 1590100

Parameter	Units	40158313004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.6	20	20	35.1	35.3	102	103	90-110	0	15	

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 WELLS
Pace Project No.: 40158121

QC Batch: 273212 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40159679001

METHOD BLANK: 1607534 Matrix: Water
Associated Lab Samples: 40159679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	11/07/17 10:48	

LABORATORY CONTROL SAMPLE: 1607535

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: 1607536 1607537

Parameter	Units	40159659001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	20	20	28.1	28.0	114	113	90-110	0	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607538 1607539

Parameter	Units	40159810001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	69.6	100	100	179	179	109	110	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

QC Batch: 270240 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40158121001

METHOD BLANK: 1587980 Matrix: Water
Associated Lab Samples: 40158121001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	10/12/17 11:09	

LABORATORY CONTROL SAMPLE: 1587981

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587982 1587983

Parameter	Units	40158117004 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 ₃ , Dissolved	mg/L	192	200	200	384	389	96	99	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587984 1587985

Parameter	Units	40158140008 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 ₃ , Dissolved	mg/L	323	200	200	528	522	103	100	90-110	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 270242 Analysis Method: EPA 310.2
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
 Associated Lab Samples: 40158227001, 40158227002, 40158227003

METHOD BLANK: 1587990 Matrix: Water
 Associated Lab Samples: 40158227001, 40158227002, 40158227003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	10/12/17 11:30	

LABORATORY CONTROL SAMPLE: 1587991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587992 1587993

Parameter	Units	40158163013 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 ₃ , Dissolved	mg/L	21.5J	100	100	120	116	99	94	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587994 1587995

Parameter	Units	40158227003 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 ₃ , Dissolved	mg/L	310	200	200	517	511	104	101	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

QC Batch: 270436 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40158227004, 40158227005

METHOD BLANK: 1589341 Matrix: Water
Associated Lab Samples: 40158227004, 40158227005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	10/13/17 10:03	

LABORATORY CONTROL SAMPLE: 1589342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	106	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589343 1589344

Parameter	Units	40158308004 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 ₃ , Dissolved	mg/L	509	500	500	1000	987	99	96	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589345 1589346

Parameter	Units	40158390003 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 ₃ , Dissolved	mg/L	346	200	200	536	540	95	97	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

QC Batch: 272774	Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2	Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40159679001	

METHOD BLANK: 1604656 Matrix: Water
Associated Lab Samples: 40159679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	11/02/17 11:43	

LABORATORY CONTROL SAMPLE: 1604657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1604658 1604659

Parameter	Units	40159679005 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 ₃ , Dissolved	mg/L	527	500	500	969	980	88	91	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1604660 1604661

Parameter	Units	40159816007 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 ₃ , Dissolved	mg/L	468	500	500	921	894	91	85	90-110	3	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS

Pace Project No.: 40158121

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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

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

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158121001	MW-1B	EPA 6010	270499		
40158227001	P-402E	EPA 6010	270500		
40158227002	P-422B	EPA 6010	270500		
40158227003	P-424SS	EPA 6010	270500		
40158227004	P-424D	EPA 6010	270500		
40158227005	P-423D	EPA 6010	270500		
40159679001	P-426D	EPA 6010	272667		
40158121001	MW-1B	EPA 8260	269830		
40158121002	TRIP BLANK	EPA 8260	269830		
40158227001	P-402E	EPA 8260	269903		
40158227002	P-422B	EPA 8260	269903		
40158227003	P-424SS	EPA 8260	269903		
40158227004	P-424D	EPA 8260	269903		
40158227005	P-423D	EPA 8260	269903		
40159679001	P-426D	EPA 8260	272283		
40158121001	MW-1B				
40158227001	P-402E				
40158227002	P-422B				
40158227003	P-424SS				
40158227004	P-424D				
40158227005	P-423D				
40158227006	P-401D				
40159679001	P-426D				
40159954004	P-402E				
40159954005	P-422B				
40159954006	P-423D				
40159954007	P-424D				
40159954008	P-424SS				
40159954009	P-426D				
40159954010	MW-1B				
40158121001	MW-1B	EPA 300.0	270214		
40158227001	P-402E	EPA 300.0	270549		
40158227002	P-422B	EPA 300.0	270549		
40158227003	P-424SS	EPA 300.0	270549		
40158227004	P-424D	EPA 300.0	270549		
40158227005	P-423D	EPA 300.0	270549		
40159679001	P-426D	EPA 300.0	273212		
40158121001	MW-1B	EPA 310.2	270240		
40158227001	P-402E	EPA 310.2	270242		
40158227002	P-422B	EPA 310.2	270242		
40158227003	P-424SS	EPA 310.2	270242		
40158227004	P-424D	EPA 310.2	270436		
40158227005	P-423D	EPA 310.2	270436		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS
Pace Project No.: 40158121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159679001	P-426D	EPA 310.2	272774		

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:

Section B
Required Project Information:

Section C
Invoice Information:

EMW

REGULATORY AGENCY

Page: 1 of 1

ADS Glacier Ridge
Report To: Same
Copy To: Frank Perugini - ESC, Mari Bull - SCS
Eng. Sherran Clark - SCS Eng
Company Name:
Address:
Purchase Order No.:
Pace Quote Reference:
Email To: Kari Rabideau - ADS
Project Name: LGRL Investigation Wells
Pace Project Manager: Cindy Varga
Phone: Fax:
Requested Due Date/TAT: Project Number:
Pace Profile #: Pace Profile #: 4172 line 29

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

SITE LOCATION GA IL IN MI NC
OH SC WI OTHER

Requested Filtered (Y/N)

8260 NR 507 VOCs
dis chloride, alkalinity
dis 6010 - hard

Residual Chlorine (Y/N)

Pace Project Number Lab ID: 340MVB3-250MVB

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 SEM-SOLID OTHER AIR OTHER TISSUE	CODE DW WW P SL OS AP OT TS	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			Requested Ant	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
						DATE	TIME	DATE			TIME	Nitric	HCL					
1	MW-1B			WG		10/5/17	13:00	13.0	5	1	3	1	X					
2	Trip Blank								2				X					

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>M. G. ...</i>	10/5/17	13:00	<i>Brenda Eritsch</i>	10/5/17		Y/N
<i>W. G. ...</i>	10/5/17	13:00	<i>Brenda Eritsch</i>	10/5/17		Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brenda Eritsch

SIGNATURE of SAMPLER: *Brenda Eritsch*

DATE Signed (MM/DD/YY): 10/05/17

Sample Condition Upon Receipt

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

Pace Analytical
Client Name: ADS

Project # **WO# : 40158121**



Courier: Fed Ex UPS Client Pace Other: walco
Tracking #: 1511059

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: ROI ICorr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no no

Person examining contents:
Date: 10-6-17
Initials: SKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 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 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 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:	<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.
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>387</u>	

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review:

[Signature]

Date: 10/6/17

SSM

40158227

Section A Requested Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

ADS Glacier Ridge
 NZ296 Hwy V
 Horicon, WI 53032
 Email To: Karl Rabideau - ADS
 Phone: Fax:
 Requested Due Date/TAT: Project Number:

Report To: Same
 Copy To: Frank Pengini - ESC, Matt Bull - SCS
 Eng, Sheren Clark - SCS Eng
 Address:
 Purchase Order No.:
 Pace Quote Reference:
 Project Name: LGRL Investigation Wells
 Pace Project Manager: Cindy Varoga
 Pace Profile #: 4172 line 29

Attention: Same
 Company Name:
 Matrix Code
 Sample Type
 G+GRAB C=COMP

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 VOC's
 Diss chloride, alkalinity
 Diss 6010 - hard
 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 / .)	Valid Matrix Codes MATRIX DRINKING WATER WATER PACED WATER SOIL/SOLID OIL MUD MATERIAL OTHER TISSUE	CODE DW WT PW SW SL OL MP MT OT TS	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	PRESERVATIVES			DATE	TIME	SAMPLE CONDITIONS
				DATE	TIME	DATE			TIME	Nitric	HCL			
1	P-4011D													
2	P-402E	001												
3	P-402B	002												
4	P-404SS	003												
5	P-404D	004												
6	P-403D	005												
7														
8														
9														
10														
11														
12														

Additional Comments: EDD = LF # 030608

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	10/17/10		<i>[Signature]</i>	10/17/10		Y/N
<i>[Signature]</i>	10/17/10		<i>[Signature]</i>	10/17/10		Y/N

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

Temp in °C
 Received on Ice
 Custody Sealed Cooler
 Samples Intact



Sample Condition Upon Receipt

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

Project #:

WO#: 40158227



Client Name: ADS Glacier Ridge

Courier: Fed Ex UPS Client Pace Other CS Logistics

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 N/A

Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: ROI

Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 10/7/17
Initials: RJ

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Comments:

Table with 15 rows of checklist items including Chain of Custody, Short Hold Time Analysis, Rush Turn Around Time, Containers Intact, and Headspace in Vials.

Client Notification/ Resolution:

Person Contacted: Date/Time: If checked, see attached form for additional comments

Comments/ Resolution:

Project Manager Review: Date: 10/9/17

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40159679

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page: 1 of 1

ADS Glacier Ridge Report To: Same Attention: Same
 N7296 Hwy V Copy To: Frank Perugini - ESC, Mari Bull - SCS
 Hericon, WI 53032 Eng. Sherren Clark - SCS Eng
 Email To: Karri Rabideau - ADS Purchase Order No.:
 Phone: Fax: Project Name: LGR Investigation Wells
 Requested Due Date/TAT: Project Number: + GRL/LGR/SW
 Pace Quote Reference:
 Pace Project Manager: Cindy Varga
 Pace Profile #: 4172 line 29

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9, -) Samples IDs MUST BE UNIQUE	Matrix Codes DRAINING WATER WATER WASTE WATER PRODUCT WASTEWATER OIL WIFE AIR SOIL TISSUE	CODE DW WT WW PW PW WP AS AS TS	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			REGULATORY AGENCY	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
						COMPOSITE START DATE	COMPOSITE END/GRAB DATE	TIME			Nitric	HCL	Unpreserved					
1	P-426D			W6		10/27	11/35	9.6	5	1	3	1	3-40159679	401	N	Y	Y	
2	A-3A*			W6		10/27	12/30	9.5	1	1	1	1	3-40159679	401	N	Y	Y	
3	MW-204A*			W6		10/27	12/10	9.6	2	2	1	1	3-40159679	401	N	Y	Y	
4	Trip Blank																	
5	Dup-4																	

Additional Comments:
 * Wells are shared between
 GRL + LGR 10-27-17 BT

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 10/27/17 TIME: 0810
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 10/27/17 TIME: 0810
 SAMPLER NAME AND SIGNATURE: [Signature] DATE Signed (MM/DD/YY): 10/27/17
 PRINT Name of SAMPLER: Branda Fritsch
 SIGNATURE of SAMPLER: [Signature]
 Temp in °C: 40.1
 Received on Ice: N
 Custody Sealed Cooler: Y
 Samples Intact: Y

Sample Condition Upon Receipt

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



Project #:

WO#: 40159679



Client Name: ADS Glacier Ridge
Courier: Fed Ex UPS Client Pace Other: Walter
Tracking #: 1536637-1

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: Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: ~~POI~~ / Corr: Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 10/28/17
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>No ms/msd vol.</u> <u>SSM 10/28/17</u>
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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VD</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SSM</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>387</u>	

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Lee

Date: 10/30/17

December 05, 2017

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


RE: Project: LGRL P-429SS - VOCs
Pace Project No.: 40161642

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
Ashley Radunzel, SCS ENGINEERS
ESC Staff, ESC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161642001	P-429SS	Water	11/30/17 13:10	12/01/17 08:50
40161642002	TRIP BLANK	Water	11/30/17 00:00	12/01/17 08:50

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SAMPLE ANALYTE COUNT

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40161642001	P-429SS	EPA 8260	HNW	46	PASI-G
			AXL	6	PASI-G
40161642002	TRIP BLANK	EPA 8260	HNW	46	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Sample: P-429SS **Lab ID: 40161642001** Collected: 11/30/17 13:10 Received: 12/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/04/17 14:14	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/17 14:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/04/17 14:14	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/04/17 14:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/04/17 14:14	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/04/17 14:14	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/04/17 14:14	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		12/04/17 14:14	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		12/04/17 14:14	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/04/17 14:14	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		12/04/17 14:14	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/04/17 14:14	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/04/17 14:14	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/04/17 14:14	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/04/17 14:14	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/04/17 14:14	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/04/17 14:14	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/04/17 14:14	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		12/04/17 14:14	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/04/17 14:14	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/04/17 14:14	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/04/17 14:14	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/17 14:14	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/04/17 14:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/04/17 14:14	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/17 14:14	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/04/17 14:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		12/04/17 14:14	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		12/04/17 14:14	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Sample: P-429SS **Lab ID: 40161642001** Collected: 11/30/17 13:10 Received: 12/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		12/04/17 14:14	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.09	Std. Units			1		11/30/17 13:10		
Field Specific Conductance	412	umhos/cm			1		11/30/17 13:10		
Turbidity	N	NTU			1		11/30/17 13:10		
Apparent Color	N	no units			1		11/30/17 13:10		
Odor	N	no units			1		11/30/17 13:10		
Temperature, Water (C)	15.3	deg C			1		11/30/17 13:10		

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ANALYTICAL RESULTS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Sample: TRIP BLANK **Lab ID: 40161642002** Collected: 11/30/17 00:00 Received: 12/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/04/17 15:21	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/17 15:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/04/17 15:21	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/04/17 15:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/04/17 15:21	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/04/17 15:21	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/04/17 15:21	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		12/04/17 15:21	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		12/04/17 15:21	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/04/17 15:21	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		12/04/17 15:21	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/04/17 15:21	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/04/17 15:21	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/04/17 15:21	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/04/17 15:21	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/04/17 15:21	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/04/17 15:21	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/04/17 15:21	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		12/04/17 15:21	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/04/17 15:21	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/04/17 15:21	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/04/17 15:21	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/17 15:21	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/04/17 15:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/04/17 15:21	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/17 15:21	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/04/17 15:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		12/04/17 15:21	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		12/04/17 15:21	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Sample: TRIP BLANK **Lab ID: 40161642002** Collected: 11/30/17 00:00 Received: 12/01/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		12/04/17 15:21	2037-26-5	

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QUALITY CONTROL DATA

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

QC Batch: 275880 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161642001, 40161642002

METHOD BLANK: 1622691 Matrix: Water

Associated Lab Samples: 40161642001, 40161642002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/04/17 08:06	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/04/17 08:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/04/17 08:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/04/17 08:06	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/04/17 08:06	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/04/17 08:06	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/04/17 08:06	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/04/17 08:06	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
2-Butanone (MEK)	ug/L	<3.0	20.0	12/04/17 08:06	
Acetone	ug/L	<3.0	20.0	12/04/17 08:06	
Benzene	ug/L	<0.50	1.0	12/04/17 08:06	
Bromodichloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
Bromoform	ug/L	<0.50	1.0	12/04/17 08:06	
Bromomethane	ug/L	<2.4	5.0	12/04/17 08:06	
Carbon disulfide	ug/L	<0.61	5.0	12/04/17 08:06	
Carbon tetrachloride	ug/L	<0.50	1.0	12/04/17 08:06	
Chlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
Chloroethane	ug/L	<0.37	1.0	12/04/17 08:06	
Chloroform	ug/L	<2.5	5.0	12/04/17 08:06	
Chloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/04/17 08:06	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/04/17 08:06	
Dibromochloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
Dibromomethane	ug/L	<0.43	1.0	12/04/17 08:06	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/04/17 08:06	
Ethylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	
m&p-Xylene	ug/L	<1.0	2.0	12/04/17 08:06	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/04/17 08:06	
Methylene Chloride	ug/L	<0.23	1.0	12/04/17 08:06	
Naphthalene	ug/L	<2.5	5.0	12/04/17 08:06	
o-Xylene	ug/L	<0.50	1.0	12/04/17 08:06	
Styrene	ug/L	<0.50	1.0	12/04/17 08:06	
Tetrachloroethene	ug/L	<0.50	1.0	12/04/17 08:06	
Tetrahydrofuran	ug/L	<2.0	5.0	12/04/17 08:06	
Toluene	ug/L	<0.50	1.0	12/04/17 08:06	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/04/17 08:06	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/04/17 08:06	
Trichloroethene	ug/L	<0.33	1.0	12/04/17 08:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

METHOD BLANK: 1622691

Matrix: Water

Associated Lab Samples: 40161642001, 40161642002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	12/04/17 08:06	
Vinyl chloride	ug/L	<0.18	1.0	12/04/17 08:06	
4-Bromofluorobenzene (S)	%	99	61-130	12/04/17 08:06	
Dibromofluoromethane (S)	%	97	67-130	12/04/17 08:06	
Toluene-d8 (S)	%	96	70-130	12/04/17 08:06	

LABORATORY CONTROL SAMPLE: 1622692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethane	ug/L	50	50.1	100	71-132	
1,1-Dichloroethene	ug/L	50	47.0	94	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.4	83	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	70-131	
1,2-Dichloropropane	ug/L	50	47.9	96	80-120	
1,3-Dichlorobenzene	ug/L	50	46.7	93	70-130	
1,4-Dichlorobenzene	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	50.1	100	73-145	
Bromodichloromethane	ug/L	50	45.7	91	70-130	
Bromoform	ug/L	50	43.2	86	67-130	
Bromomethane	ug/L	50	30.6	61	26-128	
Carbon disulfide	ug/L	50	47.5	95	72-156	
Carbon tetrachloride	ug/L	50	47.3	95	70-133	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	40.3	81	58-120	
Chloroform	ug/L	50	49.3	99	80-121	
Chloromethane	ug/L	50	34.2	68	40-127	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.0	88	70-130	
Dibromochloromethane	ug/L	50	44.2	88	70-130	
Dichlorodifluoromethane	ug/L	50	25.3	51	20-135	
Ethylbenzene	ug/L	50	49.4	99	87-129	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49.0	98	66-143	
Methylene Chloride	ug/L	50	46.4	93	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	47.6	95	82-130	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.3	85	70-130	

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QUALITY CONTROL DATA

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

LABORATORY CONTROL SAMPLE: 1622692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	43.3	87	76-133	
Vinyl chloride	ug/L	50	40.1	80	57-136	
4-Bromofluorobenzene (S)	%			102	61-130	
Dibromofluoromethane (S)	%			98	67-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622693 1622694

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40161649002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	46.5	51.1	93	102	70-134	9	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	43.6	47.5	87	95	70-130	9	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	45.3	50.8	91	102	71-133	11	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.1	47.2	86	94	75-136	9	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	40.4	42.9	81	86	63-123	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	44.1	49.1	88	98	70-130	11	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	45.1	47.9	90	95	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	46.2	50.8	92	102	70-131	9	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	42.5	48.7	85	97	80-120	14	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	44.7	46.5	89	93	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	44.4	46.4	88	92	70-130	4	20	
Benzene	ug/L	12.0	50	50	54.3	60.3	85	97	73-145	10	20	
Bromodichloromethane	ug/L	<0.50	50	50	41.2	46.2	82	92	70-130	11	20	
Bromoform	ug/L	<0.50	50	50	41.8	44.2	84	88	67-130	6	20	
Bromomethane	ug/L	<2.4	50	50	30.9	31.8	62	64	26-129	3	20	
Carbon disulfide	ug/L	<0.61	50	50	46.3	51.6	92	102	72-156	11	30	
Carbon tetrachloride	ug/L	<0.50	50	50	44.5	49.2	89	98	70-134	10	20	
Chlorobenzene	ug/L	<0.50	50	50	44.1	48.1	88	96	70-130	9	20	
Chloroethane	ug/L	<0.37	50	50	43.9	41.7	88	83	58-120	5	20	
Chloroform	ug/L	<2.5	50	50	46.0	50.2	92	100	80-121	9	20	
Chloromethane	ug/L	<0.50	50	50	32.9	33.7	66	67	40-128	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	43.4	48.2	87	96	70-130	10	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	39.6	44.1	79	88	70-130	11	20	
Dibromochloromethane	ug/L	<0.50	50	50	41.8	45.1	84	90	70-130	8	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	22.4	24.7	45	49	20-146	10	20	
Ethylbenzene	ug/L	<0.50	50	50	44.7	49.3	89	99	87-129	10	20	
m&p-Xylene	ug/L	<1.0	100	100	90.8	99.2	91	99	70-130	9	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.1	49.8	88	100	66-143	12	20	
Methylene Chloride	ug/L	<0.23	50	50	43.7	48.8	87	98	70-130	11	20	
o-Xylene	ug/L	<0.50	50	50	45.8	49.8	92	100	70-130	8	20	
Styrene	ug/L	<0.50	50	50	46.6	50.0	93	100	70-130	7	20	
Tetrachloroethene	ug/L	<0.50	50	50	43.3	46.6	87	93	70-130	7	20	
Toluene	ug/L	<0.50	50	50	44.3	48.4	89	97	82-131	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622693		1622694		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40161649002 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	45.4	50.7	91	101	75-135	11	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	40.1	43.1	80	86	70-130	7	20		
Trichloroethene	ug/L	<0.33	50	50	43.8	50.9	88	102	70-130	15	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	45.2	46.5	90	93	76-150	3	20		
Vinyl chloride	ug/L	<0.18	50	50	38.1	39.8	76	80	56-143	4	20		
4-Bromofluorobenzene (S)	%						104	101	61-130				
Dibromofluoromethane (S)	%						103	102	67-130				
Toluene-d8 (S)	%						97	96	70-130				

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QUALIFIERS

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL P-429SS - VOCs

Pace Project No.: 40161642

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161642001	P-429SS	EPA 8260	275880		
40161642002	TRIP BLANK	EPA 8260	275880		
40161642001	P-429SS				

REPORT OF LABORATORY ANALYSIS

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Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

ADS Glacier Ridge Report To: Same Attention: Same
 N17296 Hwy V Copy To: Frank Perugini - ESC, Matt Bull - SCS
 Eng. Sherren Clark - SCS Eng. ESC Staff
 Horton, WI 53032 Address:
 Email To: Karl Rabideau - ADS Purchase Order No.: Pace Quote Reference:
 Project Name: GRL GW Pace Project Manager: Cindy Varga
 Phone: Fax: Project Number: Pace Profile #: 4172 line 5
 Requested Due Date/TAT: Project Number: Pace Profile #: 4172 line 5

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -)	Valid Matrix Codes MATERIAL	CODE	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives		Requested	Filtered (Y/N)	REGULATORY AGENCY	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
						DATE	TIME			HN03 Unpreserved	HCL							
1	P429SS	DRINKING WATER WASTE WATER RODENT SOLID OIL WIRE AIR TISSUE	DW WW R S OL WP AR TS	6W6	G	11/30	0859	3	3		X	Y	Y	Y	2.5	N	N	N
2	TRP Blank					11/30	0850	2	2		X	Y	Y	Y		Y	Y	Y

Additional Comments:

*Please use 2 samples
2 day, Presoils by
Tuesday Dec 5, 2017*

REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	11/30	0850	<i>[Signature]</i>	11/17	0850	2.5

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *[Signature]*
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): 11/30/17
 Temp in °C: 2.5
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N



Sample Condition Upon Receipt

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

Client Name: ADS Glacier Ridge

Project # WO#: 40161642

Courier: Fed Ex UPS Client Pace Other: Walco

Tracking #: 1573874-1



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-4 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 ICorr: 2.5 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 12/1/17
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Table with 15 rows of inspection items and checkboxes. Items include 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: 12/1/17

February 19, 2018

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

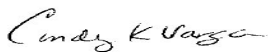
RE: Project: LGRL P-429SS FEB 2019
Pace Project No.: 40164262

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Sherren Clark, SCS Engineers
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
Ashley Radunzel, SCS ENGINEERS
ESC Staff, ESC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40164262001	P-429SS	Water	02/01/18 12:00	02/02/18 08:40
40164262002	TRIP BLANK	Water	02/01/18 00:00	02/02/18 08:40

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SAMPLE ANALYTE COUNT

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40164262001	P-429SS	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	46	PASI-G
			AXL	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40164262002	TRIP BLANK	EPA 8260	LAP	46	PASI-G

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ANALYTICAL RESULTS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Sample: P-429SS **Lab ID: 40164262001** Collected: 02/01/18 12:00 Received: 02/02/18 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Total Hardness by 2340B, Dissolved	322000	ug/L	2000	150	1		02/06/18 12:32		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/06/18 13:39	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/06/18 13:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/06/18 13:39	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/06/18 13:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/06/18 13:39	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/06/18 13:39	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/06/18 13:39	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/06/18 13:39	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		02/06/18 13:39	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/06/18 13:39	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/06/18 13:39	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/06/18 13:39	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/06/18 13:39	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/06/18 13:39	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/06/18 13:39	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		02/06/18 13:39	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/06/18 13:39	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/06/18 13:39	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/06/18 13:39	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/06/18 13:39	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/06/18 13:39	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/06/18 13:39	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/06/18 13:39	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/06/18 13:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/06/18 13:39	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/06/18 13:39	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Sample: P-429SS **Lab ID: 40164262001** Collected: 02/01/18 12:00 Received: 02/02/18 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/06/18 13:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		02/06/18 13:39	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		02/06/18 13:39	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		02/06/18 13:39	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.32	Std. Units			1		02/01/18 12:00		
Field Specific Conductance	674	umhos/cm			1		02/01/18 12:00		
Turbidity	N	NTU			1		02/01/18 12:00		
Apparent Color	N	no units			1		02/01/18 12:00		
Odor	N	no units			1		02/01/18 12:00		
Temperature, Water (C)	12.5	deg C			1		02/01/18 12:00		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	1.3J	mg/L	2.0	0.50	1		02/07/18 10:52	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	318	mg/L	47.0	14.1	2		02/15/18 14:22		

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ANALYTICAL RESULTS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Sample: TRIP BLANK **Lab ID: 40164262002** Collected: 02/01/18 00:00 Received: 02/02/18 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/06/18 10:46	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/06/18 10:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/06/18 10:46	75-35-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/06/18 10:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/06/18 10:46	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/06/18 10:46	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/06/18 10:46	78-87-5	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	106-46-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/06/18 10:46	78-93-3	
Acetone	<3.0	ug/L	20.0	3.0	1		02/06/18 10:46	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/06/18 10:46	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/06/18 10:46	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/06/18 10:46	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/06/18 10:46	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/06/18 10:46	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/06/18 10:46	75-71-8	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		02/06/18 10:46	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/06/18 10:46	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/06/18 10:46	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/06/18 10:46	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/06/18 10:46	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/06/18 10:46	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/06/18 10:46	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/06/18 10:46	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/06/18 10:46	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/06/18 10:46	95-47-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/06/18 10:46	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/06/18 10:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		02/06/18 10:46	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		02/06/18 10:46	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Sample: TRIP BLANK **Lab ID: 40164262002** Collected: 02/01/18 00:00 Received: 02/02/18 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Surrogates									
Toluene-d8 (S)	89	%	70-130		1		02/06/18 10:46	2037-26-5	

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

QC Batch: 280593	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40164262001	

METHOD BLANK: 1645950 Matrix: Water

Associated Lab Samples: 40164262001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	02/06/18 11:33	

LABORATORY CONTROL SAMPLE: 1645951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33700			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1645952 1645953

Parameter	Units	40164200001 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	403000			424000	423000				0	20	

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

QC Batch: 280478 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40164262001, 40164262002

METHOD BLANK: 1645605 Matrix: Water

Associated Lab Samples: 40164262001, 40164262002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	02/06/18 08:20	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	02/06/18 08:20	
1,1-Dichloroethane	ug/L	<0.24	1.0	02/06/18 08:20	
1,1-Dichloroethene	ug/L	<0.41	1.0	02/06/18 08:20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	02/06/18 08:20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/06/18 08:20	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	02/06/18 08:20	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/06/18 08:20	
1,2-Dichloropropane	ug/L	<0.23	1.0	02/06/18 08:20	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	02/06/18 08:20	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	02/06/18 08:20	
2-Butanone (MEK)	ug/L	<3.0	20.0	02/06/18 08:20	
Acetone	ug/L	<3.0	20.0	02/06/18 08:20	
Benzene	ug/L	<0.50	1.0	02/06/18 08:20	
Bromodichloromethane	ug/L	<0.50	1.0	02/06/18 08:20	
Bromoform	ug/L	<0.50	1.0	02/06/18 08:20	
Bromomethane	ug/L	<2.4	5.0	02/06/18 08:20	
Carbon disulfide	ug/L	<0.61	5.0	02/06/18 08:20	
Carbon tetrachloride	ug/L	<0.50	1.0	02/06/18 08:20	
Chlorobenzene	ug/L	<0.50	1.0	02/06/18 08:20	
Chloroethane	ug/L	<0.37	1.0	02/06/18 08:20	
Chloroform	ug/L	<2.5	5.0	02/06/18 08:20	
Chloromethane	ug/L	<0.50	1.0	02/06/18 08:20	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	02/06/18 08:20	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	02/06/18 08:20	
Dibromochloromethane	ug/L	<0.50	1.0	02/06/18 08:20	
Dibromomethane	ug/L	<0.43	1.0	02/06/18 08:20	
Dichlorodifluoromethane	ug/L	<0.22	1.0	02/06/18 08:20	
Ethylbenzene	ug/L	<0.50	1.0	02/06/18 08:20	
m&p-Xylene	ug/L	<1.0	2.0	02/06/18 08:20	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/06/18 08:20	
Methylene Chloride	ug/L	<0.23	1.0	02/06/18 08:20	
Naphthalene	ug/L	<2.5	5.0	02/06/18 08:20	
o-Xylene	ug/L	<0.50	1.0	02/06/18 08:20	
Styrene	ug/L	<0.50	1.0	02/06/18 08:20	
Tetrachloroethene	ug/L	<0.50	1.0	02/06/18 08:20	
Tetrahydrofuran	ug/L	<2.0	5.0	02/06/18 08:20	
Toluene	ug/L	<0.50	1.0	02/06/18 08:20	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	02/06/18 08:20	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	02/06/18 08:20	
Trichloroethene	ug/L	<0.33	1.0	02/06/18 08:20	

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

METHOD BLANK: 1645605

Matrix: Water

Associated Lab Samples: 40164262001, 40164262002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.18	1.0	02/06/18 08:20	
Vinyl chloride	ug/L	<0.18	1.0	02/06/18 08:20	
4-Bromofluorobenzene (S)	%	88	61-130	02/06/18 08:20	
Dibromofluoromethane (S)	%	108	67-130	02/06/18 08:20	
Toluene-d8 (S)	%	94	70-130	02/06/18 08:20	

LABORATORY CONTROL SAMPLE: 1645606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	48.5	97	71-132	
1,1-Dichloroethene	ug/L	50	48.5	97	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	39.1	78	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dichloroethane	ug/L	50	47.4	95	70-131	
1,2-Dichloropropane	ug/L	50	51.4	103	80-120	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
Benzene	ug/L	50	52.7	105	73-145	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	45.5	91	67-130	
Bromomethane	ug/L	50	34.5	69	26-128	
Carbon disulfide	ug/L	50	53.2	106	72-156	
Carbon tetrachloride	ug/L	50	55.0	110	70-133	
Chlorobenzene	ug/L	50	51.1	102	70-130	
Chloroethane	ug/L	50	42.8	86	58-120	
Chloroform	ug/L	50	49.5	99	80-121	
Chloromethane	ug/L	50	38.6	77	40-127	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.6	93	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dichlorodifluoromethane	ug/L	50	34.0	68	20-135	
Ethylbenzene	ug/L	50	50.3	101	87-129	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	43.2	86	66-143	
Methylene Chloride	ug/L	50	47.6	95	70-130	
o-Xylene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	50.8	102	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Toluene	ug/L	50	50.1	100	82-130	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.4	85	70-130	

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

LABORATORY CONTROL SAMPLE: 1645606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	76-133	
Vinyl chloride	ug/L	50	43.8	88	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			97	67-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1646005 1646006

Parameter	Units	40164237002		1646005		1646006		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
1,1,1-Trichloroethane	ug/L	<0.00050 mg/L	50	50	52.1	48.8	104	98	70-134	7	20	
1,1,2-Trichloroethane	ug/L	<0.00020 mg/L	50	50	50.3	51.2	101	102	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.00024 mg/L	50	50	49.5	49.0	99	98	71-133	1	20	
1,1-Dichloroethene	ug/L	<0.00041 mg/L	50	50	49.2	47.9	98	96	75-136	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	39.8	43.1	80	86	63-123	8	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.0	51.9	100	104	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.3	50.5	99	101	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.00017 mg/L	50	50	44.8	45.1	90	90	70-131	1	20	
1,2-Dichloropropane	ug/L	<0.00023 mg/L	50	50	52.6	57.4	105	115	80-120	9	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.6	48.7	99	97	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.7	51.4	103	103	70-130	1	20	
Benzene	ug/L	<0.00050 mg/L	50	50	51.4	48.7	103	97	73-145	5	20	
Bromodichloromethane	ug/L	<0.00050 mg/L	50	50	49.7	56.4	99	113	70-130	13	20	
Bromoform	ug/L	<0.00050 mg/L	50	50	48.7	47.6	97	95	67-130	2	20	
Bromomethane	ug/L	<0.0024 mg/L	50	50	37.3	37.0	75	74	26-129	1	20	
Carbon disulfide	ug/L	<0.00061 mg/L	50	50	56.2	52.2	112	104	72-156	7	30	
Carbon tetrachloride	ug/L	<0.00050 mg/L	50	50	55.7	52.2	111	104	70-134	6	20	
Chlorobenzene	ug/L	<0.00050 mg/L	50	50	54.2	52.1	108	104	70-130	4	20	
Chloroethane	ug/L	<0.00037 mg/L	50	50	45.1	41.0	90	82	58-120	10	20	
Chloroform	ug/L	<0.0025 mg/L	50	50	49.2	47.0	98	94	80-121	5	20	
Chloromethane	ug/L	<0.00050 mg/L	50	50	40.4	39.3	81	79	40-128	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

Parameter	Units	40164237002		1646005		1646006		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
cis-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	50.7	48.5	101	97	70-130	4	20		
cis-1,3-Dichloropropene	ug/L	<0.00050 mg/L	50	50	44.6	51.7	89	103	70-130	15	20		
Dibromochloromethane	ug/L	<0.00050 mg/L	50	50	49.5	48.4	99	97	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	39.1	38.3	78	77	20-146	2	20		
Ethylbenzene	ug/L	<0.00050 mg/L	50	50	52.2	51.5	104	103	87-129	1	20		
m&p-Xylene	ug/L	<1.0	100	100	109	106	109	106	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<0.00017 mg/L	50	50	43.0	42.4	86	85	66-143	1	20		
Methylene Chloride	ug/L	<0.00023 mg/L	50	50	48.8	45.8	98	92	70-130	6	20		
o-Xylene	ug/L	<0.50	50	50	53.7	53.2	107	106	70-130	1	20		
Styrene	ug/L	<0.00050 mg/L	50	50	55.5	52.7	111	105	70-130	5	20		
Tetrachloroethene	ug/L	<0.00050 mg/L	50	50	50.0	49.6	100	99	70-130	1	20		
Toluene	ug/L	<0.00050 mg/L	50	50	52.4	52.2	105	104	82-131	0	20		
trans-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	51.6	50.0	103	100	75-135	3	20		
trans-1,3-Dichloropropene	ug/L	<0.00023 mg/L	50	50	44.8	43.0	90	86	70-130	4	20		
Trichloroethene	ug/L	<0.00033 mg/L	50	50	52.5	57.3	105	115	70-130	9	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	46.3	44.3	93	89	76-150	5	20		
Vinyl chloride	ug/L	<0.00018 mg/L	50	50	46.7	44.3	93	89	56-143	5	20		
4-Bromofluorobenzene (S)	%						101	98	61-130				
Dibromofluoromethane (S)	%						96	92	67-130				
Toluene-d8 (S)	%						95	93	70-130				

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

QC Batch: 280703	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40164262001	

METHOD BLANK: 1646306 Matrix: Water
Associated Lab Samples: 40164262001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	02/07/18 10:30	

LABORATORY CONTROL SAMPLE: 1646307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1646308 1646309

Parameter	Units	40164262001		1646308		1646309		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	1.3J	20	20	21.9	21.7	103	102	90-110	1	15

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QUALITY CONTROL DATA

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

QC Batch: 281278	Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2	Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40164262001	

METHOD BLANK: 1648804 Matrix: Water
Associated Lab Samples: 40164262001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	9.7J	23.5	02/15/18 14:19	

LABORATORY CONTROL SAMPLE: 1648805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	106	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648806 1648807

Parameter	Units	40164262001 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 ₃ , Dissolved	mg/L	318	200	200	513	506	97	94	90-110	1	20	

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QUALIFIERS

Project: LGRL P-429SS FEB 2019

Pace Project No.: 40164262

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 P-429SS FEB 2019

Pace Project No.: 40164262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40164262001	P-429SS	EPA 6010	280593		
40164262001	P-429SS	EPA 8260	280478		
40164262002	TRIP BLANK	EPA 8260	280478		
40164262001	P-429SS				
40164262001	P-429SS	EPA 300.0	280703		
40164262001	P-429SS	EPA 310.2	281278		

REPORT OF LABORATORY ANALYSIS

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 1 of 1

ADS Glacier Ridge
Report To: Same
Attention: Same

N7296 Hwy V
Copy To: Frank Perugini - ESC, ESC Staff
Sherrin Clark - SCS Eng

Horton, WI 53032
Company Name:

Email To: Kari Rabideau - ADS
Purchase Order No.:
Address:

Phone: Fax:
Project Name: LGRL Investigation Wells
Pace Quote Reference:

Requested Due Date/AT: Project Number:
Pace Project Manager: Cindy Varga
Pace Profile #: 4172 line 29

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
dis chloride, alkalinity
dis 6010 - hard
Residual Chlorine (Y/N)
Pace Project Number Lab I.D.

ITEM #	Section D SAMPLE ID Required Client Information (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Matrix Codes MATERIALS DRINKING WATER WATER WASTE WATER WATER SOIL/SOLID OIL WIRE OTHER TSS/SE	CODE DW WT WW WV SL CL WP OT TS	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			Requested	Ant	REGULATORY AGENCY	SAMPLER NAME AND SIGNATURE	DATE	TIME	SAMPLE CONDITIONS				
						DATE	TIME	DATE			TIME	Nitric	HCL							Unpreserved	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
1	P-429 BSSD			SW	6	2/1	1200	125	5	1	3	1	X	X	X		Stacy F. Nozmark	2/1/18	0840	60.5	N	Y	N	
2	Trip Blank								2				X	X	X									
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								


Additional Comments:
① Received per client. 2/12/18 con

RELINQUISHED BY / AFFILIATION: *[Signature]*
DATE: 2/1/18
TIME: 1200

ACCEPTED BY / AFFILIATION: *[Signature]*
DATE: 2/1/18
TIME: 0840

Temp in °C: 60.5
Received on Ice: N
Custody Sealed Cooler: Y
Samples Intact: N

SAMPLER NAME AND SIGNATURE: *[Signature]*
PRINT Name of SAMPLER: Stacy F. Nozmark
SIGNATURE of SAMPLER: *[Signature]*
DATE SIGN (MM/DD/YY): 2/1/18

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS Galvior Ridge Project #: _____
WO#: **40164262**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Tracking #: 1631884-2



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

Cooler Temperature: Uncorr: RoI ICorr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 2/2/18
 Initials: SSR

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" 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>✓</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
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>394</u>		

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: Brenda Date/Time: 2/12/18

Comments/ Resolution:
Client ID should be P-42955 instead of P-42912. CoC updated according to 2/12/18 com

Project Manager Review: CJA Date: 2/2/18