

June 28, 2019
File No. 25219008.02

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

Subject: Semiannual Report
 Off-Site Investigation of Chlorinated Volatile Organic Compounds in
 Groundwater in Bedrock
 Land & Gas Reclamation Landfill, Dodge County, Wisconsin
 BRRS #02-14-000906

Dear Mr. Bannister:

On behalf of Advanced Disposal Services Glacier Ridge Landfill, LLC (Advanced), SCS Engineers (SCS) is submitting this report summarizing the results of groundwater sampling completed in January through April 2019 related to off-site investigation of chlorinated volatile organic compounds (CVOCs) in bedrock at the former Land & Gas Reclamation Landfill (LGRL). The groundwater sampling completed in January through April 2019 was recommended in the 2018 Annual Report, dated March 29, 2019.

MONITORING SUMMARY

In January through April 2019, groundwater monitoring under the investigation continued at existing bedrock monitoring wells, deep unconsolidated unit monitoring wells, and water supply wells. Monitoring well and water supply well locations are shown on **Figure 1**. Monitoring events covered by this report include:

- January 2019 make-up sampling event at P-429SS
- April 2019 semiannual sampling event at investigation wells and water supply wells
- January through April 2019 monthly sampling at water supply well PW-21RR

Results of the water level monitoring, monitoring well sampling, and water supply well sampling are discussed below.

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**.

The groundwater elevations measured in the upper dolomite monitoring wells on April 1, 2019, and contours of the corresponding potentiometric surfaces are shown on **Figure 2**. The April 2019 water levels in the upper dolomite indicate flow from the LGRL area is generally to the northeast, with flow to the east-southeast between piezometers P426D and P423D. The northeast flow from the LGRL



area is consistent with measured flow directions from most of the previous events, and is consistent with the apparent northeast to east flow direction indicated by the volatile organic compound (VOC) distribution. The vertical gradient between the dolomite (at piezometer 424D) and the deeper sandstone (at piezometer 424SS) was downward in April 2019, consistent with previous sampling events.

MONITORING WELL SAMPLING AND ANALYSIS

Environmental Sampling Corporation (ESC) collected groundwater samples from the existing bedrock monitoring wells in April 2019.

Bedrock monitoring well analytical data are summarized in **Table 2**. Deep unconsolidated unit monitoring well analytical data are summarized in **Table 3**. Concentration trends for cis-1,2-dichloroethene (DCE) and vinyl chloride, the two primary CVOCs, in select monitoring wells are shown on **Figures 3** and **4**.

The concentrations detected in April 2019 were generally consistent with previous results.

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

- January 2019 make-up sampling event at P-429SS
- April 2019 semiannual sampling event at investigation wells

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 4**, and concentration trends for cis-1,2-DCE and vinyl chloride are shown on **Figures 5** and **6**.

The concentrations detected in January through April 2019 were consistent with previous results, with the exception that the April 2019 cis-1,2-DCE concentration at the Antonioni well (PW-19) represents an increase above previous results. The detected concentration at this well (1.2 micrograms per liter [$\mu\text{g}/\text{L}$]) is well below the NR 140 Enforcement Standard and the U.S. Environmental Protection Agency Maximum Contaminant Level (both 70 $\mu\text{g}/\text{L}$).

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

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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,



Sherren Clark, PE, PG
Project Director
SCS Engineers



Meghan Blodgett, PG
Project Hydrogeologist
SCS Engineers

MDB/lmh/AW/SCC

cc: Lonn Walter, Advanced Disposal Services (2 copies)
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**Table 1. Water Level Summary - Bedrock Wells
Land and Gas Reclamation Landfill / File No. 25219008.02**

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
April 5-6, 2018	78.60	75.50	96.90				89.90	89.62	103.65	
April 25, 2018										157.00
October 4, 2018							90.38	90.20		
October 30, 2018	79.70	76.30	95.40						102.20	
January 9, 2019										158.20
April 1, 2019	75.50	73.10	94.55				87.20	87.05	99.55	150.35

**Table 1. Water Level Summary - Bedrock Wells
Land and Gas Reclamation Landfill / File No. 25219008.02**

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
April 5-6, 2018	853.70	853.58	852.09				852.70	852.26	851.99	
April 25, 2018										842.24
October 4, 2018							852.22	851.68		Well
October 30, 2018	852.60	852.78	853.59						853.44	Inaccessible
January 9, 2019										841.04
April 1, 2019	856.80	855.98	854.44				855.40	854.83	856.09	848.89
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

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Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (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
	4/6/2018	Pace	17.2	348	357	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 3.0 J1
10/30/2018	Pace	16.8	332	322	<1.3	<2.2	<0.27	<0.24	0.33 J1	<1.1	<0.33	<0.26	<0.17	Acetone 10.6 J1	
10/30/2018 (DUP)	Pace	16.9	336	309	<1.3	<2.2	<0.27	<0.24	0.61 J1	<1.1	<0.33	<0.26	<0.17	Acetone 7.3 J1	
4/4/2019	Pace	16.8	333	304	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	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

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (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.)	10/27/2010	Siemens	78.4	403	505	<7.0	<4.0	<4.0	<4.0	459	14.8 J	<3.0	11.1 J	39.4	Methylene Chloride 8.47 J
	11/29/2010	Siemens	83.6	410	--	<7.0	<4.0	<4.0	<4.0	346	10.9 J	<3.0	9.16 J	40.6	ND
	4/8/2011	Siemens	87.7	404	483	7.64	<0.40	1.41	1.65	499	18.8	<0.30	15.7	53.5	Tetrahydrofuran 4.95 J
	10/7/2011	Siemens	73	392	502	5.87	<0.40	1.47	1.23 J	344	11.8	<0.30	13.6	41.9	Carbon Disulfide 3.30 J Tetrahydrofuran 2.77 J
	4/13/2012	Siemens	75.9	412	496	<7	<4	<4	<4	412	11.6 J	<3	11.5 J	41.4	ND
	10/4/2012	Pace	68.8	344	466	5.0	<0.24	1.3	1.2	360	13.0	<0.45	12.5	39.3	Tetrahydrofuran 2.7 J
	4/5/2013	Pace	60.2	397	566	5.8	<0.96	<3.0	<2.3	330	11.2	<1.8	10.2	35.5	ND
	10/4/2013	Pace	61.6	397	456	4.5	<0.78	1.3 J	<0.85	301	20.5	<0.94	8.3	25.3	ND
	4/7/2014	Pace	61.5	399	470	8.0	<2.0	1.2 J	<1.6	326	12.0	<2.0	8.3	42.6	ND
	10/15/2014	Pace	61.7	373	453	5.0	<2.5	<1.2	<2.1	283	17.9	<2.5	6.5	28.3	ND
	4/17/2015	Pace	62.8	383	450	4.8	<1.2	0.82 J	<1.0	298	8.5	<5.1	5.5	27.6	ND
	10/9/2015	Pace	64.5	389	465	5.2	<1.2	<0.60	<1.0	287	8.4	<1.2	4.8	25.2	Acetone 19.6 J
	4/7/2016	Pace	63.5	364	450	7.9	<1.2	1.1 J	<1.0	315	20.3	<1.2	4.4	28.8	ND
	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
	4/6/2018	Pace	54.9	388 M0	478	<0.94 L1	<1.2	1.2 J1	<1.0	337	<0.64	<1.2	2.4 J1	25.7	ND
	4/6/2018 (DUP)	Pace	55.3	366	482	3.1 L1	<0.50	1.2	1.1	324	4.5	<0.50	2.5	27.2	Acetone 7.2 J1 Tetrahydrofuran 3.2 J1
	10/30/2018	Pace	53.5	377	436	4.7 J1	<5.5	0.81 J1	<0.61	268	8.9 J1	<0.82	2.1 J1	27.9	ND
	4/4/2019	Pace	53.3	362	445	4.6 J	<5.5	0.94 J	<0.61	231	7.2 J	1.5 J	1.7 J	25.5	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

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

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

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
P-423D (cont.)	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
	4/6/2018	Pace	41.0	365	472	<0.37 L1	<0.50	0.65 J1	<0.41	92.4	<0.26	<0.50	0.74 J1	3.3	ND
	10/30/2018	Pace	39.2	371	437	2.8 J1	<2.2	0.56 J1	<0.24	82.5	3.6 J1	<0.33	0.70 J1	2.9	Acetone 3.6 J1
4/4/2019	Pace	36.3	358	428	2.8 J	<2.2	0.66 J	<0.24	80.4	4.1	<0.33	0.59 J	2.5	Acetone 7.7 J	
P-424D	12/17/2012	Pace	33.8	357	409	2.5	<0.48	<1.5	<1.1	91.2	3.5	<0.90	1.7 J	7.0	ND
	2/20/2013	Pace	32.6	382	432	2.6	<0.24	0.92 J	<0.57	105	3.2	<0.45	2.5	5.8	ND
	10/3/2013	Pace	38.5	379	444	2.6	<0.39	1.1	<0.43	124	3.5	<0.47	3.2	10.1	ND
	4/7/2014	Pace	34.8	369	427	3.1	<0.50	0.98 J	0.42 J	114	4	<0.50	3	7.6	Acetone 3.1 J
	10/16/2014	Pace	40.7	358	424	3.3	<1.0	0.92 J	<0.82	122	4.9	<1.0	2.4	7.7	ND
	4/17/2015	Pace	37.7	363	409	1.8	<0.50	0.54 J	<0.41	79.6	2.5	<0.50	2.3	2.6	ND
	10/9/2015	Pace	48.6	384	449	3.5	<0.50	0.88 J	<0.41	120	3.8	<0.50	2.2	11.4	ND
	4/8/2016	Pace	40.7	369	432	2.9	<0.50	0.82 J	<0.41	111	3.4	<0.50	2.3	5.3	ND
	10/7/2016	Pace	45.1	370	485	4.1	<1.2	0.94 J	<1.0	125	4.3	<1.2	2.3 J	9.9	ND
	4/7/2017	Pace	43.2	374	422	3.6	<0.50	0.84 J	<0.41	119	4.0	<0.50	2.1	7.6	ND
	10/6/2017	Pace	43.2	369	452	3.1	<0.50	1	0.51 J	151	4.7	<0.50	2	9.4	ND
	4/6/2018	Pace	41.1	371	466	0.41 J1,L1	<0.50	<0.24	0.54 J1	156	<0.26	<0.50	2.0	9.7	Tetrahydrofuran 2.6 J1
	10/5/2018	Pace	36.1	366	457	3.3 J1	<2.2	0.66 J1	0.41 J1	104	3.4 J1	<0.33	2.0	10.5	ND
4/4/2019	Pace	38.1	356	436	2.9 J	<2.2	0.82 J	0.41 J	115	3.6 J	<0.33	1.9	8.4	Acetone 3.5 J	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (Results are in µg/L, except where otherwise noted)

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

Well Number	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Hardness (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs	
P-424SS	12/17/2012	Pace	<2.0	303	287	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND	
	2/20/2013	Pace	2.1 J	309	298	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND	
	10/3/2013	Pace	2.8 J	320	298	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND	
	4/7/2014	Pace	2.5 J	311	290	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND	
	10/16/2014	Pace	2.8 J	303	283	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
	4/17/2015	Pace	2.8 J	314	276	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone	3.7 J
	10/9/2015	Pace	2.4 J	323	295	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
	4/8/2016	Pace	2.7 J	309	293	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
	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	
	4/6/2018	Pace	0.72 J1	318	329	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone	3.0 J1
	10/5/2018	Pace	0.96 J1	307 M0	326	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND	
4/4/2019	Pace	0.76 J	301	312	<1.4	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	Acetone	5.9 J	
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	
	4/6/2018	Pace	43.9	349	499	<0.37 L1	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	
	10/30/2018	Pace	59.2	356	492	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND	
	4/5/2019	Pace	36.2	319	437	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
(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-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
	4/25/2018	Pace	1.1 J1	313	314	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	1/9/2019	Pace	2.5	296	320	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	Acetone 4.3 J
	4/26/2019	Pace	1.2 J	317	328	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	Acetone 40.8
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
	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	

Table 2. LGRL VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (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.)	4/6/2018	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/25/2018	Pace	--	--	--	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/5/2018	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	10/30/2018	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	4/4/2019	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	4/26/2019	Pace	--	--	--	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	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. LGRI VOC Investigation Bedrock Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02**

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:

B = Analyte was detected in the associated method blank.

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

J = Estimated value below laboratory limit of quantitation.

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

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

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

Created by: MOB

Date: 9/5/2012

Last revision by: ACW

Date: 6/10/2019

Checked by: MDB

Date: 6/11/2019

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (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
MW-1B	10/27/2010	Siemens	53.1	231	251	<0.7	<0.4	<0.4	<0.4	4.02	<0.5	<0.30	<0.4	0.33 J	o-xylene 0.28 J
	4/7/2011	Siemens	72.3	174	271	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	<0.20	ND
	10/7/2011	Siemens	78.1	200	292	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	0.58 J	Carbon Disulfide 2.77 J
	4/13/2012	Siemens	84.3	186	291	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	<0.20	Acetone 7.88 J
	10/4/2012	Siemens	71.6	196	276	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	0.37 J	Carbon Disulfide 21.8
	10/1/2013	Pace	83.5	216	276	<0.44	<0.39	<0.28	<0.43	2.7	<0.37	<0.47	<0.36	4.1	ND
	4/7/2014	Pace	69.8	219	276	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/10/2014	Pace	71.6	213	284	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	Acetone 4.1 J
	4/17/2015	Pace	67.6	224	265	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	1.1	ND
	10/9/2015	Pace	64.4	227	290	<0.37	0.63 J	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	1.3	Acetone 22.1
	4/6/2016	Pace	97.9	203	303	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	2.5	ND
	10/5/2016	Pace	109	200	373	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	2.4	ND
	4/6/2017	Pace	89	216	287	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	1.9	ND
	10/5/2017	Pace	93.6	212	314	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	2.0	ND
4/5/2018	Pace	128	178	339	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	3.4	ND	
10/3/2018	Pace	109	215	335	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	2.3	Acetone 5.3 J1	
4/4/2019	Pace	124	186	345	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	4.2	Acetone 10.3 J	
P-422B	10/27/2010	Siemens	6.9	218	152	<0.7	<0.4	<0.4	<0.4	8.7	<0.5	<0.30	0.51 J	0.26 J	ND
	11/29/2010	Siemens	7.16	225	--	--	--	--	--	--	--	--	--	--	Methane 24.3
	4/7/2011	Siemens	8.15	183	149	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	<0.20	ND
	10/6/2011	Siemens	6.34	194	152	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	<0.20	ND
	4/13/2012	Siemens	10.2	212	159	<0.7	<0.4	<0.4	<0.4	<0.4	<0.5	<0.30	<0.4	<0.20	ND
	10/4/2012	Pace	5.7	206	150	<0.97	<0.24	<0.75	<0.57	<0.83	<0.89	<0.45	<0.48	<0.18	ND
	10/3/2013	Pace	25.8	196	169	<0.44	<0.39	<0.28	<0.43	<0.42	<0.37	<0.47	<0.36	<0.18	ND
	4/7/2014	Pace	33.6	200	180	<0.37	<0.50	<0.16	<0.41	<0.26	<0.24	<0.50	<0.33	<0.18	ND
	10/10/2014	Pace	25.9	198	170	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/17/2015	Pace	32.5	189	166	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/9/2015	Pace	29	200	167	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
4/7/2016	Pace	19.7	194	164	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND	

Table 3. LGRL VOC Investigation Deep Unconsolidated Well Sample Results - Through April 2019
Land and Gas Reclamation Landfill / File No. 25219008.02
 (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-422B (cont.)	10/7/2016	Pace	18.9	199	165	<0.37	<0.50	<0.24	<0.41	1.4	<0.26	<0.50	<0.33	<0.18	ND
	4/7/2017	Pace	12.2	209	157	<0.37	<0.50	<0.24	<0.41	7	0.27 J	<0.50	<0.33	<0.18	ND
	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
	4/5/2018	Pace	10.1	216	175	<0.37	<0.50	<0.24	<0.41	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	10/3/2018	Pace	8.6	199	164	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	4/5/2019	Pace	10.1	210	173	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
NR 140 Groundwater Enforcement Standard			250	NS	NS	400	30	850	7	70	100	5	5	0.2	Acetone 9000 Carbon Disulfide 1,000 Xylenes 2,000
NR 140 Preventive Action Limit			125	NS	NS	80	3	85	0.7	7	20	0.5	0.5	0.02	Acetone 1,800 Carbon Disulfide 200 Xylenes 400

Abbreviations:

ND = Not detected
 mg/L = Milligrams per Liter
 µg/L = Micrograms per Liter

Siemens = Siemens Water Technologies
 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.

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

Created by: MOB Date: 9/5/2012
 Last revision by: MDB Date: 6/12/2019
 Checked by: AJR Date: 6/12/2019

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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 0.29 J Toluene 21
		11/29/2010	Siemens	12.4	347	<0.70	<0.40	<0.40	<1.30	3.12	<0.50	<0.30	<0.40	0.61 J	Toluene 1.25
		12/16/2010	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	3.75	<0.50	<0.30	<0.40	0.65 J	Toluene 0.99 J
		1/12/2011	NLS	--	--	<1.0	<0.16	<0.14	<0.11	4.4	0.13 J	<0.10	<0.12	0.75	ND
		2/10/2011	Siemens	--	--	<0.70	<0.40	<0.40	<0.40	6	<0.50	<0.30	<0.40	0.79	ND
		3/1/2011	TA	--	--	<0.070	<0.063	<0.074	<0.059	6.1	<0.13	<0.067	<0.060	0.92	ND
		4/5/2011	NLS	--	--	<1.6	<0.29	<0.23	<0.13	8.9	0.32 J	<0.11	<0.28	0.94	ND
			TA	--	--	<0.10	<0.20	<0.050	<0.050	7.3	0.27 J	<0.050	<0.050	0.79	ND
		5/26/2011	TA	--	--	0.34 J	<0.20	0.080 J	<0.05	12	0.44 J	<0.050	<0.050	1.0	ND
		6/28/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	9.8	0.37 J	<0.15	<0.25	0.78	ND
		7/14/2011	TA	--	--	<0.50	0.33 J	<0.25	<0.15	10	0.40 J	<0.15	<0.25	0.75	ND
		8/16/2011	TA	--	--	<0.50	<0.30	<0.25	<0.15	9.7	0.31 J	<0.15	<0.25	0.46 J	ND
		9/1/2011	TA	--	--	<0.50	0.46 J	<0.25	<0.15	11	0.45 J	<0.15	<0.25	0.67	ND
		10/6/2011	TA	--	--	0.52	<0.30	<0.25	<0.15	10	0.40 J	<0.15	<0.25	0.63	ND
		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 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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	<u>0.67</u>	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	<u>0.53</u>	ND	
		11/20/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	16.2	0.47 J	<0.12	<0.084	<u>0.57</u>	ND	
		12/12/2014	Pace	--	--	<0.27	<0.34	<0.087	<0.17	19.0	<0.15	<0.12	<0.084	<u>1.2</u>	ND	
		1/21/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	17.1	<0.15	<0.12	<0.084	<u>0.43</u>	ND	
		2/18/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	14.2	0.37 J	<0.12	<0.084	<u>0.55</u>	ND	
		3/5/2015	Pace	--	--	<0.27	<0.34	<0.087	<0.17	16.6	<0.15	<0.12	<0.084	<u>0.50</u>	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	<u>0.50</u>	ND	
		5/20/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	16.7	0.44 J	<0.15	<0.14	<u>0.55</u>	ND	
		6/3/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.52	<0.15	<0.14	<u>0.56</u>	ND	
		7/16/2015	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.5	1.2	<0.15	<0.14	<u>0.58</u>	ND	
		8/31/2015	Pace	--	--	<0.34	<0.64 L2	<0.19	<0.17	18.0	1.1	<0.15	<0.14	<u>0.47</u>	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	<u>0.60</u> H1	ND	
		10/6/2015	Pace	16.0	328	<0.88	<0.20	0.18	<0.17	20	0.35	<0.13	<0.19	<u>0.76</u>	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	<u>0.55</u>	ND	
		2/9/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.3	0.41 J	<0.15	<0.14	<u>0.50</u>	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	<u>0.55</u>	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	<u>0.47</u>	ND	
		5/19/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	19.7	0.24 J	<0.15	<0.14	<u>0.45</u>	ND	
		6/22/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18	0.46 J	<0.15	<0.14	<u>0.37</u>	ND	
		7/7/2016	Pace	--	--	<0.34	<0.64	<0.19	<0.17	18.8	0.48 J	<0.15	<0.14	<u>0.64</u>	ND	
		8/11/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17.9	0.35 J	<0.12	<0.044	<u>0.46</u>	ND	
		9/9/2016	Pace	--	--	<0.18	<0.21	<0.088	<0.089	17	0.47 J	<0.12	<0.044	<u>0.42</u>	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	<u>0.57</u>	ND	
		11/14/2016	Pace	--	--	0.29 J	<0.21	<0.088	<0.089	16.7	0.47 J	<0.12	<0.044	<u>0.45</u>	ND	
		12/1/2016	Pace	--	--	0.37 J	<0.21	<0.088	<0.089	19.2	0.51	<0.12	<0.044	<u>0.48</u>	ND	
		1/27/2017	Pace	--	--	<0.18	<0.21	<0.088	<0.089	21.1	0.42 J	<0.12	<0.044	<u>0.5</u>	ND	
		2/2/2017	Pace	--	--	0.31 J	<0.21	<0.088	<0.089	22.1	0.44 J	<0.12	<0.044	<u>0.46</u>	ND	
3/9/2017	Pace	--	--	0.53 J	<0.21	<0.088	<0.089	25	0.63	<0.12	<0.044	<u>0.5</u>	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	<u>0.54</u>	ND			
5/19/2017	Pace	--	--	0.54 J	<0.21	<0.088	<0.089	20.8	0.48 J	<0.12	<0.044	<u>0.62</u>	ND			
6/22/2017	Pace	--	--	0.28 J	<0.21	<0.088	<0.089	19.5	0.51	<0.12	<0.044	<u>0.59</u>	ND			
7/17/2017	Pace	--	--	0.58 J	<0.21	<0.088	<0.089	18.3	0.42 J	<0.12	<0.044	<u>0.52</u>	ND			

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

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Well Number	Well Owner	Sample Date	Lab	Chloride (mg/L)	Alkalinity (mg/L)	Chloroethane	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Other VOCs
PW-21RR Untreated (cont.)	A. Oechsner N7548 Hwy. 67 Mayville	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
		3/14/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	18.9	0.37 J1	<0.12	<0.11	0.52	ND
		4/3/2018	Pace	17.5	323	<0.32	<1.1	<0.14	<0.18	18.4	0.36 J1	<0.12	<0.11	0.59	ND
		5/15/2018	Pace	--	--	0.26	<0.023	0.14	<0.034	20.5	0.49	<0.040	<0.044	0.58	ND
		6/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	17.6	0.44 J1	<0.12	<0.11	0.55	ND
		7/12/2018	Pace	--	--	0.81	<0.15	<0.16	<0.19	20.1	0.54 J1	<0.17	<0.12	0.48	ND
		8/2/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	19.5	0.42 J1	<0.17	<0.12	0.55	ND
		9/4/2018	Pace	--	--	<0.14	0.47 J1	<0.16	<0.19	21.2	0.70	<0.17	<0.12	0.50	ND
		10/1/2018	Pace	17.6	325	<0.14	<0.15	<0.16	<0.19	21.8	0.53 J1	<0.17	<0.12	0.41	ND
		11/20/2018	Pace	--	--	<0.14	0.30 J1	<0.16	<0.19	20.1	0.50 J1	<0.17	<0.12	0.71	ND
		12/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	19.7	0.52 J1	<0.17	<0.12	0.67	ND
		1/9/2019	Pace	--	--	<0.37	<0.22	<0.28	<0.21	17.6	<0.35	<0.48	<0.23	<0.37	ND
2/19/2019	Pace	--	--	0.39 J	<0.15	<0.16	<0.19	24.2	0.53 J	<0.17	<0.12	0.68	ND		
3/13/2019	Pace	--	--	<0.14	<0.15	<0.16	<0.19	20.9	0.47 J	<0.17	<0.12	0.64	ND		
4/3/2019	Pace	17.4	328	0.34 J1	<0.15	<0.16	<0.19	20.1	0.51 J1	<0.17	<0.12	0.50	ND		
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		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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	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	
		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			
3/14/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.1	<0.21	<0.12	<0.11	<0.074	ND			

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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	4/3/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.0	<0.21	<0.12	<0.11	<0.074	ND
		5/15/2018	Pace	--	--	<0.053	0.14	<0.033	<0.034	1.5	<0.028	<0.040	<0.044	<0.016	ND
		6/1/2018	Pace	--	--	<0.32	<1.1	<0.14	<0.18	1.6	<0.21	<0.12	<0.11	<0.074	ND
		7/12/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	1.8	<0.18	<0.17	<0.12	<0.086	Isopropylbenzene (Cumene) 0.51 J1 N2
		8/2/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	2.9	<0.18	<0.17	<0.12	<0.086	ND
		9/4/2018	Pace	--	--	<0.14	0.54	<0.16	<0.19	2.6	<0.18	<0.17	<0.12	<0.086	ND
		10/1/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	2.2	<0.18	<0.17	<0.12	<0.086	Isopropylbenzene 0.69
		11/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	1.3	<0.18	<0.17	<0.12	<0.086	ND
		12/20/2018	Pace	--	--	<0.14	<0.15	<0.16	<0.19	1.5	<0.18	<0.17	<0.12	<0.086	ND
		1/9/2019	Pace	--	--	<0.37	<0.22	<0.28	<0.21	<0.39	<0.35	<0.48	<0.23	<0.37	ND
		2/19/2019	Pace	--	--	<0.14	<0.15	<0.16	<0.19	1.3	<0.18	<0.17	<0.12	<0.086	ND
		3/13/2019	Pace	--	--	<0.14	<0.15	<0.16	<0.19	1.9	<0.18	<0.17	<0.12	<0.086	ND
4/3/2019	Pace	--	--	<0.14	<0.15	<0.16	<0.19	3.5	<0.18	<0.17	<0.12	<0.086	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
		4/3/2018	Pace	52	362	<0.32	<1.1	<0.14	<0.18	0.54	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	51.3	348	<0.14	<0.15	<0.16	<0.19	0.58	<0.18	<0.17	<0.12	<0.086	ND
4/3/2019	Pace	41.4	326	<0.14	<0.15	<0.16	<0.19	1.2	<0.18	<0.17	<0.12	<0.086	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		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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	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
		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
		4/3/2018	Pace	20.6	334	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	19.3	323 M0	<1.3	<2.2	<0.27	<0.24	<0.27	<1.1	<0.33	<0.26	<0.17	ND
4/5/2019	Pace	25.8	319	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND		
PW-23	Weiss W2978 Zion Church Rd. Mavville	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		
4/3/2018	Pace	84.1	501	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND		
10/1/2018	Pace	111	382	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND		
4/3/2019	Pace	94.1	379	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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-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
2/20/2013	Pace	36.7	360	2.3	<0.13	0.77	<0.16	87	3.3	<0.16	1.9	7.1	ND		
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		
4/3/2018	Pace	27.3	370	<0.32	<1.1	<0.14	<0.18	2.5	<0.21	<0.12	<0.11	<0.074	ND		
10/1/2018	Pace	27	354	<0.14	<0.15	<0.16	<0.19	3.0	<0.18	<0.17	<0.12	<0.086	ND		
4/3/2019	Pace	26.9	350	<0.14	<0.15	<0.16	<0.19	2.8	<0.18	<0.17	<0.12	<0.086	ND		

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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	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	
		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	
4/3/2018	Pace	43.6	373 M0	<0.32	<1.1	<0.14	<0.18	0.21 J1	<0.21	<0.12	<0.11	<0.074	ND			
10/1/2018	Pace	43.2	347	<0.14	<0.15	<0.16	<0.19	0.37 J1	<0.18	<0.17	<0.12	<0.086	ND			
4/3/2019	Pace	44.0	337	<0.14	<0.15	<0.16	<0.19	0.33 J1	<0.18	<0.17	<0.12	<0.086	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			

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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-38 (cont.)	King N7746 Hwy. 67 Mayville	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
		4/3/2018	Pace	1.8 J1	350	<0.32	<1.1	<0.14	<0.18	<0.073	<0.21	<0.12	<0.11	<0.074	ND
		10/1/2018	Pace	1.6 J1	330	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND
		4/3/2019	Pace	1.8 J1	330	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	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
		10/1/2018	Pace	1.9 J1	322	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND
PW-43	Hinz 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	<0.21	<0.11	<0.074	ND
		10/1/2018	Pace	16.4	217	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	ND
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
		10/1/2018	Pace	1.3 J1	316	<0.14	<0.15	<0.16	<0.19	<0.14	<0.18	<0.17	<0.12	<0.086	Styrene

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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
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	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	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
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

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019
(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-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 Chlorobenzene 100 Methyl-tert-butyl ether 60 Methylene Chloride 5 Styrene 100 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 Styrene 100 Toluene 1,000

I:\25219008.02\Deliverables\2019 April Semiannual Report\[Table4_Water Supply Well VOCs.xlsx]Results

Table 4. LGRL VOC Investigation Water Supply Well Sample Results - Through April 2019

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

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

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.

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

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

Created by: JSN

Date: 4/27/2009

Last revision by: MDB

Date: 6/13/2019

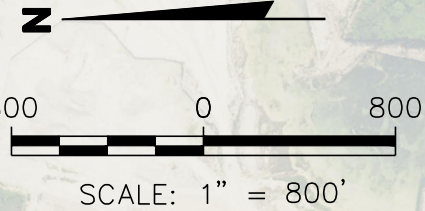
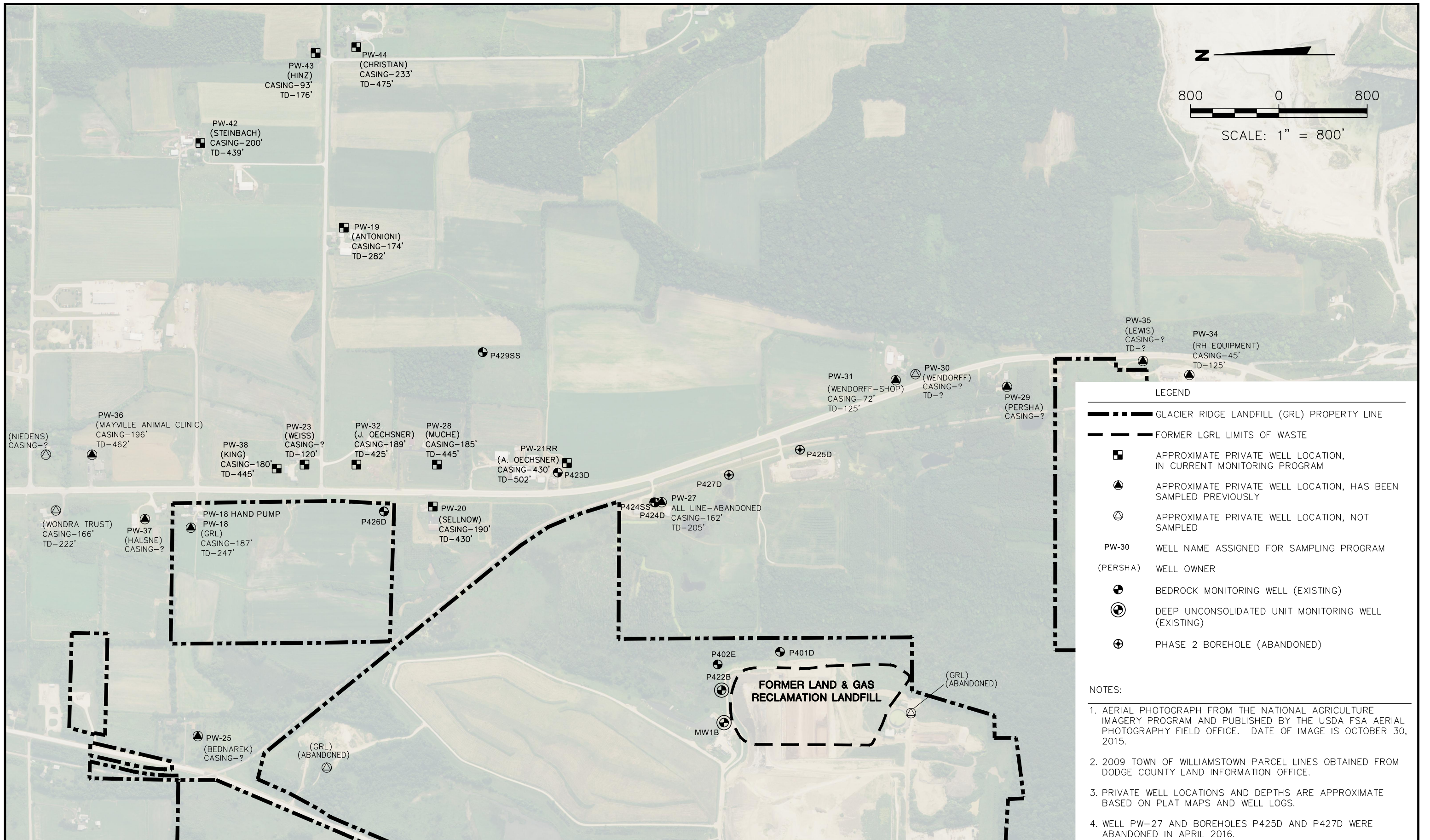
Checked by: LMH

Date: 6/13/2019

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Figures

- 1 Investigation Monitoring Well Locations
- 2 Dolomite Bedrock Groundwater Elevations and Potentiometric Surface Contours – April 2019
- 3 Cis-1,2-DCE Concentration Trend in Bedrock Monitoring Wells
- 4 Vinyl Chloride Concentration Trend in Bedrock Monitoring Wells
- 5 Cis-1,2-Dichloroethylene Trend in Water Supply Wells Downgradient from LGRL
- 6 Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)



LEGEND

- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
- FORMER LGRL LIMITS OF WASTE
- APPROXIMATE PRIVATE WELL LOCATION, IN CURRENT MONITORING PROGRAM
- APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
- APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
- PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
- (PERSHA) WELL OWNER
- BEDROCK MONITORING WELL (EXISTING)
- DEEP UNCONSOLIDATED UNIT 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 OCTOBER 30, 2015.
 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.	25219008.02	DRAWN BY:	KP
DRAWN:	04/01/16	CHECKED BY:	SC
REVISED:	06/25/19	APPROVED BY:	

ENGINEER	
----------	--

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

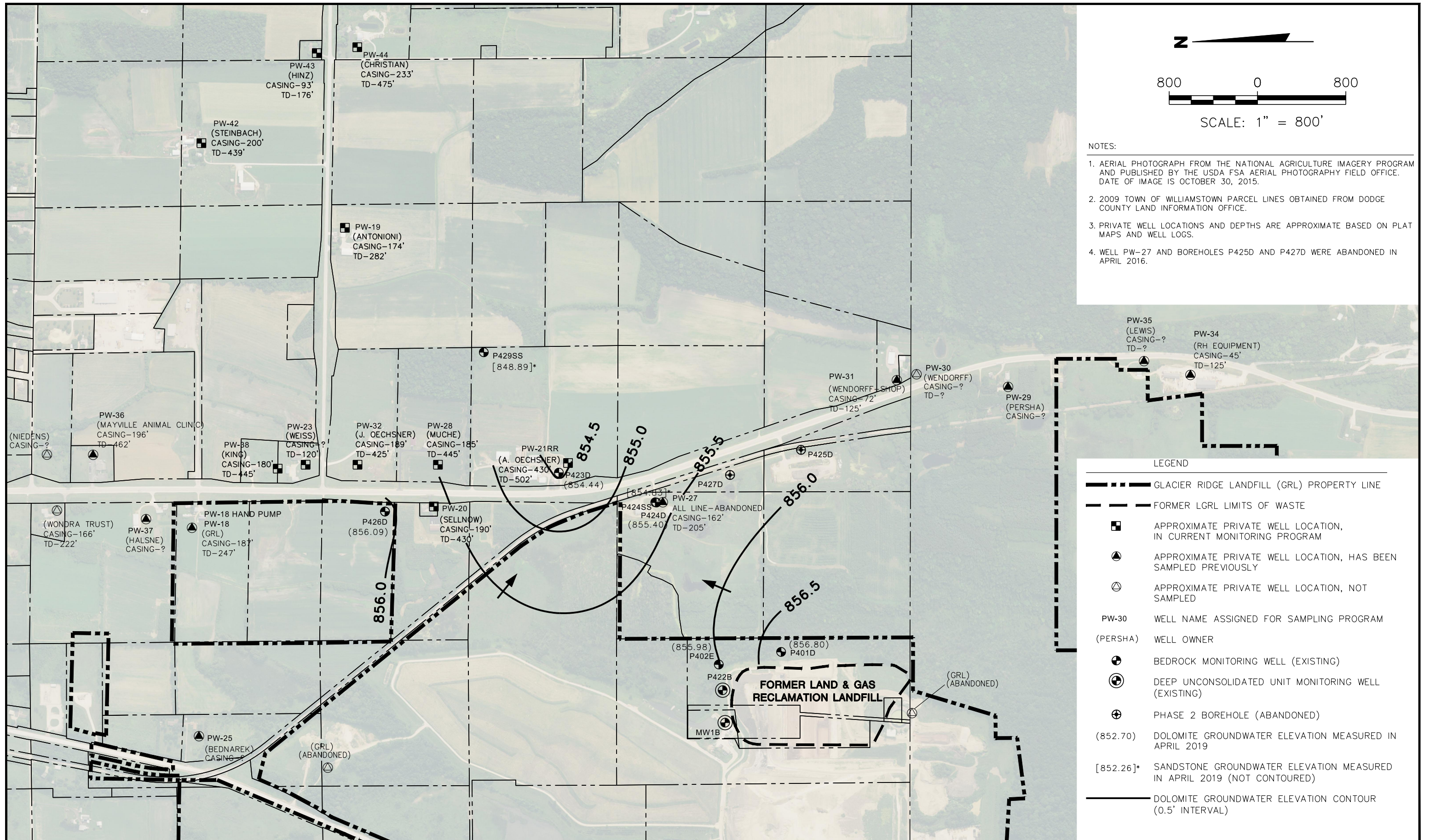
CLIENT

ADVANCED DISPOSAL SERVICES
 GLACIER RIDGE LANDFILL, LLC.

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

INVESTIGATION MONITORING
 WELL LOCATIONS

FIGURE
 1



- NOTES:
1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS OCTOBER 30, 2015.
 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.

- LEGEND
- GLACIER RIDGE LANDFILL (GRL) PROPERTY LINE
 - - - FORMER LGRL LIMITS OF WASTE
 - APPROXIMATE PRIVATE WELL LOCATION, IN CURRENT MONITORING PROGRAM
 - APPROXIMATE PRIVATE WELL LOCATION, HAS BEEN SAMPLED PREVIOUSLY
 - APPROXIMATE PRIVATE WELL LOCATION, NOT SAMPLED
 - PW-30 WELL NAME ASSIGNED FOR SAMPLING PROGRAM
 - (PERSHA) WELL OWNER
 - ⊕ BEDROCK MONITORING WELL (EXISTING)
 - ⊕ DEEP UNCONSOLIDATED UNIT MONITORING WELL (EXISTING)
 - ⊕ PHASE 2 BOREHOLE (ABANDONED)
 - (852.70) DOLOMITE GROUNDWATER ELEVATION MEASURED IN APRIL 2019
 - [852.26]* SANDSTONE GROUNDWATER ELEVATION MEASURED IN APRIL 2019 (NOT CONTOURED)
 - DOLOMITE GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL)

PROJECT NO.	25219008.02	DRAWN BY:	KP/BSS
DRAWN:	06/12/19	CHECKED BY:	MDB
REVISED:	06/13/19	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 - APRIL 2019

FIGURE
 2

I:\25219008.02\Drawings\2019-BEDROC\W:BL:DoLo:ite.dwg, 6/25/2019 3:25:16 PM

Figure 3. Cis-1,2-DCE Concentration Trends in Bedrock Monitoring Wells

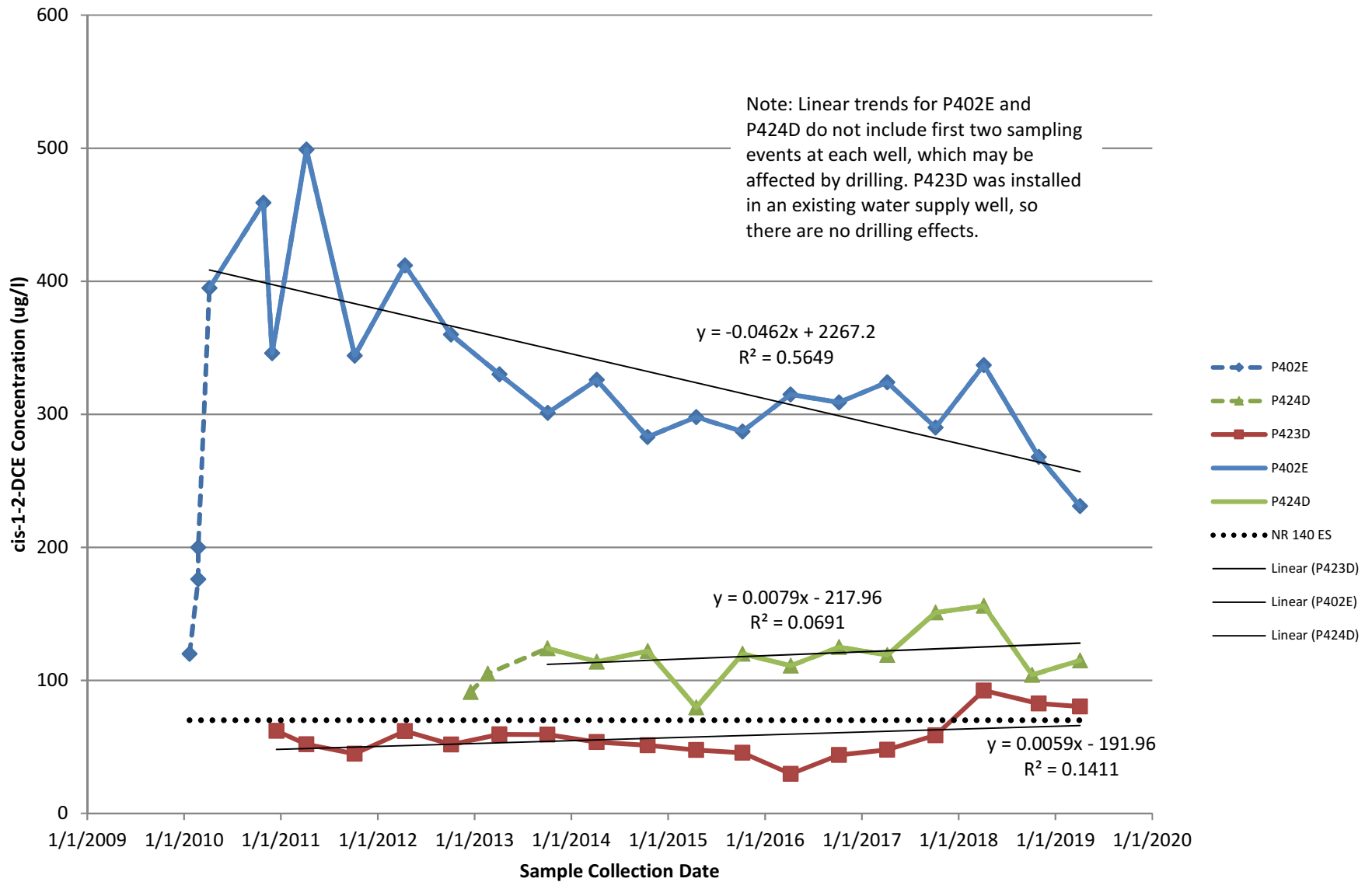


Figure 4. Vinyl Chloride Concentration Trends in Bedrock Monitoring Wells

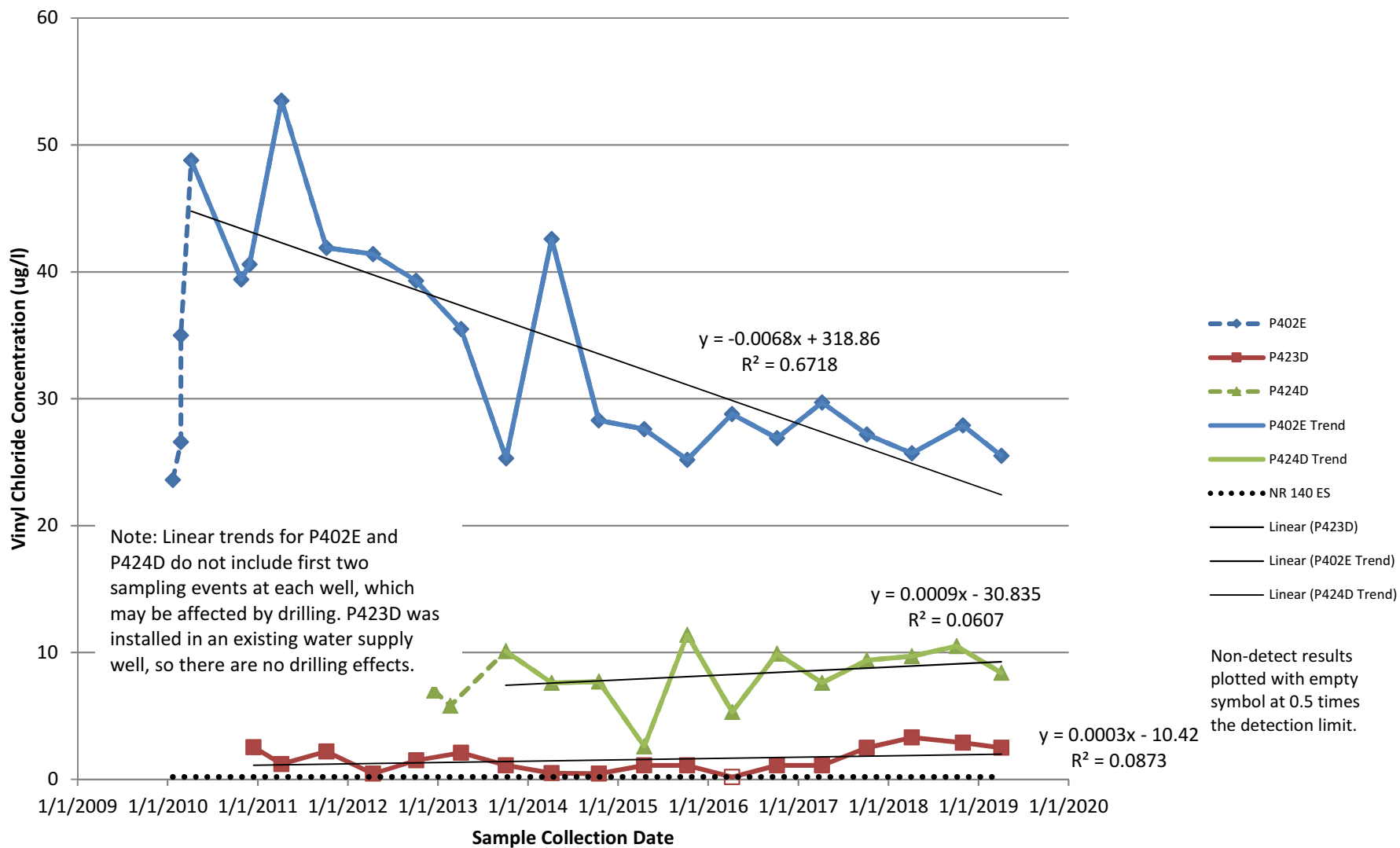


Figure 5. Cis-1,2-Dichloroethylene Trends in Water Supply Wells Downgradient from LGRL

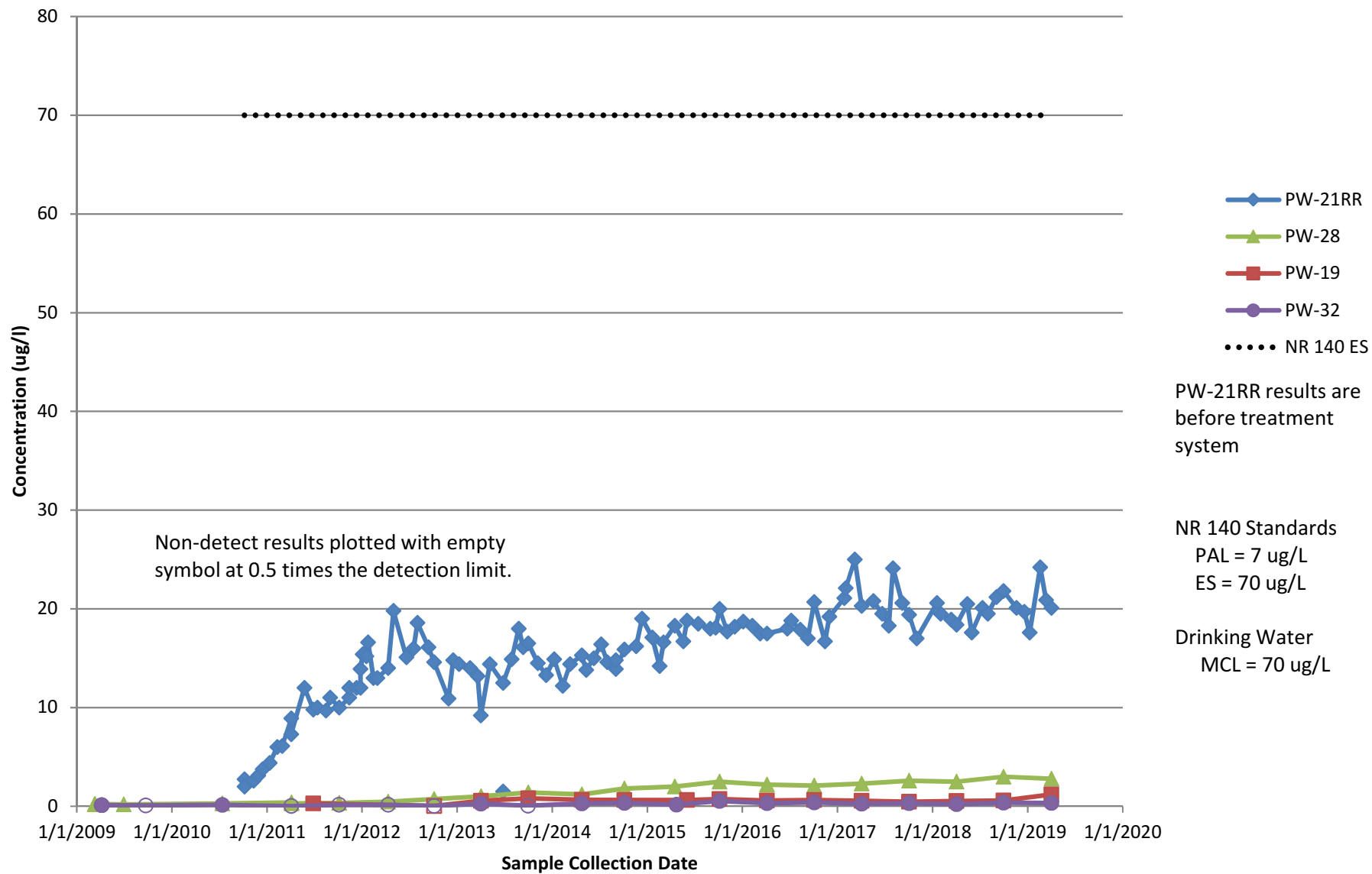
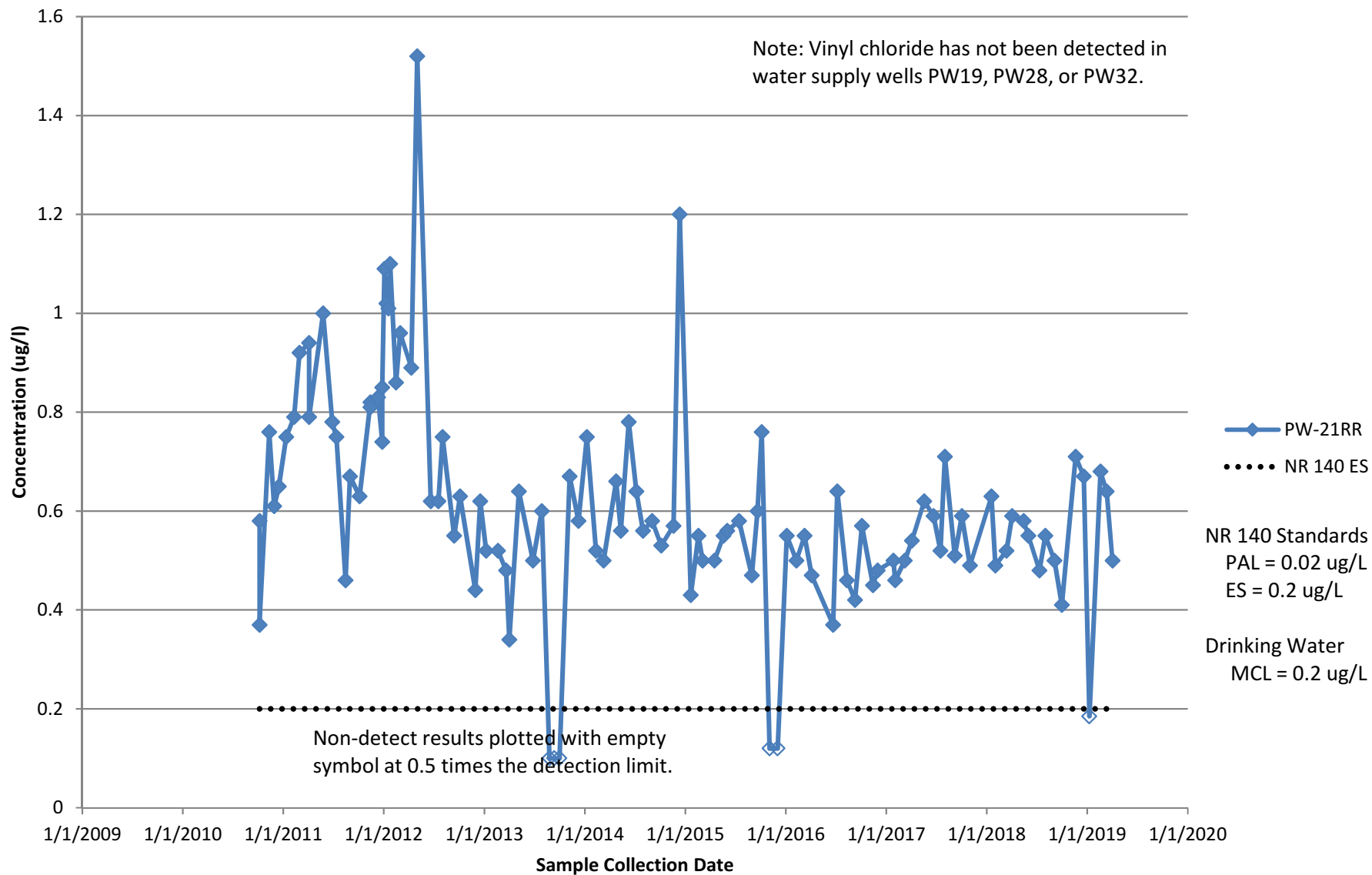



Figure 6. Vinyl Chloride Trend in PW-21RR Samples (Before Treatment System)





Appendix A

Laboratory Reports (January and April 2019)

January 21, 2019

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

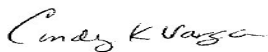
RE: Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on January 10, 2019. 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
Environmental Sampling Corporation Staff, Environmental
Sampling Corporation
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

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 JAN
Pace Project No.: 40181855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40181855001	P-429SS	Water	01/09/19 15:35	01/10/19 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40181855001	P-429SS	EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	46	PASI-G
			AXL	7	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

Sample: P-429SS Lab ID: 40181855001 Collected: 01/09/19 15:35 Received: 01/10/19 09:10 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	320000	ug/L	2000	150	1		01/18/19 15:26		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/11/19 12:37	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/11/19 12:37	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/11/19 12:37	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/11/19 12:37	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/11/19 12:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/11/19 12:37	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/11/19 12:37	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/11/19 12:37	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/11/19 12:37	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/11/19 12:37	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/11/19 12:37	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		01/11/19 12:37	78-93-3	
Acetone	4.3J	ug/L	20.0	2.7	1		01/11/19 12:37	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		01/11/19 12:37	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/11/19 12:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/11/19 12:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/11/19 12:37	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		01/11/19 12:37	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/11/19 12:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/11/19 12:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/11/19 12:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/11/19 12:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/11/19 12:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/11/19 12:37	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/11/19 12:37	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/11/19 12:37	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/11/19 12:37	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/11/19 12:37	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/11/19 12:37	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/11/19 12:37	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/11/19 12:37	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/11/19 12:37	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		01/11/19 12:37	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		01/11/19 12:37	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/11/19 12:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/11/19 12:37	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/11/19 12:37	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/11/19 12:37	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/11/19 12:37	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/11/19 12:37	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/11/19 12:37	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/11/19 12:37	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

Sample: P-429SS **Lab ID: 40181855001** Collected: 01/09/19 15:35 Received: 01/10/19 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/11/19 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		01/11/19 12:37	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		01/11/19 12:37	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		01/11/19 12:37	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.75	Std. Units			1		01/09/19 15:35		
Field Specific Conductance	577	umhos/cm			1		01/09/19 15:35		
Turbidity	N	NTU			1		01/09/19 15:35		
Static Water Level	841.04	feet			1		01/09/19 15:35		
Apparent Color	N	no units			1		01/09/19 15:35		
Odor	N	no units			1		01/09/19 15:35		
Temperature, Water (C)	7.9	deg C			1		01/09/19 15:35		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	2.5	mg/L	2.0	0.50	1		01/15/19 12:31	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	296	mg/L	47.0	14.1	2		01/15/19 14:06		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

QC Batch: 311795

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40181855001

METHOD BLANK: 1818175

Matrix: Water

Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	01/18/19 15:04	

LABORATORY CONTROL SAMPLE: 1818176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33200			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1818177 1818178

Parameter	Units	40181994001 Result	MS Spike Conc.	MSD Spike Conc.	1818177		1818178		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Hardness by 2340B, Dissolved	ug/L	290 mg/L			318000	318000				0	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN
Pace Project No.: 40181855

QC Batch: 311211 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40181855001

METHOD BLANK: 1815452 Matrix: Water
Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/11/19 08:41	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/11/19 08:41	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/11/19 08:41	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/11/19 08:41	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/11/19 08:41	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/11/19 08:41	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/11/19 08:41	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/11/19 08:41	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/11/19 08:41	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/11/19 08:41	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/11/19 08:41	
2-Butanone (MEK)	ug/L	<2.9	20.0	01/11/19 08:41	
Acetone	ug/L	<2.7	20.0	01/11/19 08:41	
Benzene	ug/L	<0.25	1.0	01/11/19 08:41	
Bromodichloromethane	ug/L	<0.36	1.2	01/11/19 08:41	
Bromoform	ug/L	<4.0	13.2	01/11/19 08:41	
Bromomethane	ug/L	<0.97	5.0	01/11/19 08:41	
Carbon disulfide	ug/L	<0.37	5.0	01/11/19 08:41	
Carbon tetrachloride	ug/L	<0.17	1.0	01/11/19 08:41	
Chlorobenzene	ug/L	<0.71	2.4	01/11/19 08:41	
Chloroethane	ug/L	<1.3	5.0	01/11/19 08:41	
Chloroform	ug/L	<1.3	5.0	01/11/19 08:41	
Chloromethane	ug/L	<2.2	7.3	01/11/19 08:41	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/11/19 08:41	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/11/19 08:41	
Dibromochloromethane	ug/L	<2.6	8.7	01/11/19 08:41	
Dibromomethane	ug/L	<0.94	3.1	01/11/19 08:41	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/11/19 08:41	
Ethylbenzene	ug/L	<0.22	1.0	01/11/19 08:41	
m&p-Xylene	ug/L	<0.47	2.0	01/11/19 08:41	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/11/19 08:41	
Methylene Chloride	ug/L	<0.58	5.0	01/11/19 08:41	
Naphthalene	ug/L	<1.2	5.0	01/11/19 08:41	
o-Xylene	ug/L	<0.26	1.0	01/11/19 08:41	
Styrene	ug/L	<0.47	1.6	01/11/19 08:41	
Tetrachloroethene	ug/L	<0.33	1.1	01/11/19 08:41	
Tetrahydrofuran	ug/L	<2.3	20.0	01/11/19 08:41	
Toluene	ug/L	<0.17	5.0	01/11/19 08:41	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/11/19 08:41	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/11/19 08:41	
Trichloroethene	ug/L	<0.26	1.0	01/11/19 08:41	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

METHOD BLANK: 1815452

Matrix: Water

Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	01/11/19 08:41	
Vinyl chloride	ug/L	<0.17	1.0	01/11/19 08:41	
4-Bromofluorobenzene (S)	%	91	70-130	01/11/19 08:41	
Dibromofluoromethane (S)	%	93	70-130	01/11/19 08:41	
Toluene-d8 (S)	%	97	70-130	01/11/19 08:41	

LABORATORY CONTROL SAMPLE: 1815453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	41.5	83	70-133	
1,1,2-Trichloroethane	ug/L	50	45.9	92	70-130	
1,1-Dichloroethane	ug/L	50	59.6	119	70-134	
1,1-Dichloroethene	ug/L	50	55.3	111	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	37.6	75	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	43.4	87	73-134	
1,2-Dichloropropane	ug/L	50	44.2	88	79-128	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	43.4	87	69-137	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	49.8	100	64-133	
Bromomethane	ug/L	50	36.8	74	29-123	
Carbon disulfide	ug/L	50	50.6	101	67-153	
Carbon tetrachloride	ug/L	50	43.5	87	73-142	
Chlorobenzene	ug/L	50	50.2	100	70-130	
Chloroethane	ug/L	50	48.7	97	59-133	
Chloroform	ug/L	50	42.6	85	80-129	
Chloromethane	ug/L	50	28.8	58	27-125	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.1	84	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	17.1	34	12-127	
Ethylbenzene	ug/L	50	49.9	100	86-127	
m&p-Xylene	ug/L	100	103	103	70-131	
Methyl-tert-butyl ether	ug/L	50	47.6	95	65-136	
Methylene Chloride	ug/L	50	57.7	115	72-133	
o-Xylene	ug/L	50	50.7	101	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	48.4	97	70-130	
Toluene	ug/L	50	48.0	96	84-124	
trans-1,2-Dichloroethene	ug/L	50	59.7	119	70-133	
trans-1,3-Dichloropropene	ug/L	50	40.4	81	67-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

LABORATORY CONTROL SAMPLE: 1815453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	69-147	
Vinyl chloride	ug/L	50	38.4	77	48-134	
4-Bromofluorobenzene (S)	%			92	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1815507 1815508

Parameter	Units	40181853002		1815507		1815508		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	41.3	42.5	83	85	70-136	3	20			
1,1,2-Trichloroethane	ug/L	<0.55	50	50	46.4	48.2	93	96	70-130	4	20			
1,1-Dichloroethane	ug/L	<0.27	50	50	59.4	62.1	119	124	70-139	4	20			
1,1-Dichloroethene	ug/L	<0.24	50	50	55.5	56.5	111	113	72-137	2	20			
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	43.8	81	88	60-130	8	21			
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.8	51.5	100	103	70-130	3	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.1	51.2	100	102	70-130	2	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	43.6	45.1	87	90	71-137	3	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	44.1	45.7	88	91	78-130	4	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.1	50.9	100	102	70-130	2	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.3	52.4	103	105	70-130	2	20			
Benzene	ug/L	<0.25	50	50	43.2	44.6	86	89	66-143	3	20			
Bromodichloromethane	ug/L	<0.36	50	50	46.9	48.4	94	97	70-130	3	20			
Bromoform	ug/L	<4.0	50	50	51.3	53.8	103	108	64-134	5	20			
Bromomethane	ug/L	<0.97	50	50	37.2	38.6	74	77	29-136	4	25			
Carbon disulfide	ug/L	<0.37	50	50	51.0	53.0	102	106	67-156	4	21			
Carbon tetrachloride	ug/L	<0.17	50	50	43.9	45.2	88	90	73-142	3	20			
Chlorobenzene	ug/L	<0.71	50	50	50.6	52.5	101	105	70-130	4	20			
Chloroethane	ug/L	<1.3	50	50	49.4	49.5	99	99	58-138	0	20			
Chloroform	ug/L	<1.3	50	50	42.3	43.1	85	86	80-131	2	20			
Chloromethane	ug/L	<2.2	50	50	28.3	28.5	57	57	24-125	1	20			
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	46.2	47.0	92	94	68-137	2	22			
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	42.9	44.6	86	89	70-130	4	20			
Dibromochloromethane	ug/L	<2.6	50	50	48.9	51.3	98	103	70-131	5	20			
Dichlorodifluoromethane	ug/L	<0.50	50	50	15.9	16.8	32	34	10-127	6	20			
Ethylbenzene	ug/L	<0.22	50	50	50.3	52.0	101	104	81-136	3	20			
m&p-Xylene	ug/L	<0.47	100	100	104	107	104	107	70-135	2	20			
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.8	50.6	98	101	58-142	4	23			
Methylene Chloride	ug/L	<0.58	50	50	57.8	59.2	116	118	69-137	2	20			
o-Xylene	ug/L	<0.26	50	50	50.9	52.3	102	105	70-132	3	20			
Styrene	ug/L	<0.47	50	50	51.4	52.0	103	104	70-130	1	20			
Tetrachloroethene	ug/L	<0.33	50	50	48.7	50.8	97	102	70-132	4	20			
Toluene	ug/L	<0.17	50	50	48.6	49.1	97	98	81-130	1	20			

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1815507		1815508		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40181853002 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	59.1	62.4	118	125	70-136	5	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	40.9	42.1	82	84	67-130	3	20		
Trichloroethene	ug/L	<0.26	50	50	49.4	51.3	99	103	70-131	4	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	53.0	55.8	106	112	66-150	5	20		
Vinyl chloride	ug/L	<0.17	50	50	37.7	38.7	75	77	46-134	3	20		
4-Bromofluorobenzene (S)	%						92	92	70-130				
Dibromofluoromethane (S)	%						92	93	70-130				
Toluene-d8 (S)	%						97	97	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

QC Batch: 311438

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions, Dissolved

Associated Lab Samples: 40181855001

METHOD BLANK: 1816458

Matrix: Water

Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	01/15/19 11:10	

LABORATORY CONTROL SAMPLE: 1816459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1816460 1816461

Parameter	Units	1816460		1816461		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40181853001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	40.8	100	100	150	150	109	109	90-110	0	15

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

QC Batch: 311460

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40181855001

METHOD BLANK: 1816558

Matrix: Water

Associated Lab Samples: 40181855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	01/15/19 14:03	

LABORATORY CONTROL SAMPLE: 1816559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	94.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1816560 1816561

Parameter	Units	40181855001 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	296	200	200	486	494	95	99	90-110	2	20	

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS JAN

Pace Project No.: 40181855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40181855001	P-429SS	EPA 6010	311795		
40181855001	P-429SS	EPA 8260	311211		
40181855001	P-429SS				
40181855001	P-429SS	EPA 300.0	311438		
40181855001	P-429SS	EPA 310.2	311460		

REPORT OF LABORATORY ANALYSIS

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Client Name: ADDIS Project # 20181855

Sample Preservation Receipt Form

All containers needing preservation have been checked and noted below: Pres No N/A
 Lab Lot# of pH paper: 10452081 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SPW Date/Time:

Page Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	AG1U	BP1U	DG9A	JGFU	SP5T							2.5 / 5 / 10
002	AG1H	BP2N	DG9T	WGFU	ZPLC					X		2.5 / 5 / 10
003	AG4S	BP2Z	VG9U	WPFU	GN							2.5 / 5 / 10
004	AG4U	BP3U	VG9H									2.5 / 5 / 10
005	AG5U	BP3C	VG9M									2.5 / 5 / 10
006	AG2S	BP3N	VG9D									2.5 / 5 / 10
007	BG3U	BP3S										2.5 / 5 / 10
008												2.5 / 5 / 10
009												2.5 / 5 / 10
010												2.5 / 5 / 10
011												2.5 / 5 / 10
012												2.5 / 5 / 10
013												2.5 / 5 / 10
014												2.5 / 5 / 10
015												2.5 / 5 / 10
016												2.5 / 5 / 10
017												2.5 / 5 / 10
018												2.5 / 5 / 10
019												2.5 / 5 / 10
020												2.5 / 5 / 10


Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRG, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *if yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL clear vial Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

10/16

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____
WO# : 40181855

 40181855

Tracking #: 1947393
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 /Corr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 1-10-18
 Initials: [Signature]

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	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	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Project Manager Review: [Signature] **Date:** 1/9/18

May 14, 2019

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


RE: Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

Dear General Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between April 05, 2019 and May 14, 2019. 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
Environmental Sampling Corporation Staff, Environmental
Sampling Corporation
Frank Perugini, Environmental Sampling Corporation
Kari Rabideau, Advanced Disposal Hickory Meadows
Landfill, LLC
Ashley Radunzel, SCS ENGINEERS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

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 APRIL
Pace Project No.: 40185322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185322001	P-401D	Water	04/04/19 12:15	04/05/19 09:05
40185322002	P-402E	Water	04/04/19 11:35	04/05/19 09:05
40185322003	P-424D	Water	04/04/19 13:00	04/05/19 09:05
40185322004	P-424SS	Water	04/04/19 14:40	04/05/19 09:05
40185322005	MW-1B	Water	04/04/19 11:25	04/05/19 09:05
40185322006	TRIP BLANK	Water	04/04/19 00:00	04/05/19 09:05
40185425007	P-422B	Water	04/05/19 13:15	04/06/19 09:00
40185425008	P-426D	Water	04/05/19 13:15	04/06/19 09:00
40186637001	P-429SS	Water	04/26/19 14:15	04/27/19 08:45
40186637002	TRIP BLANK	Water	04/26/19 00:00	04/27/19 08:45
40185322011	P-401D	Water	04/01/19 00:00	05/14/19 00:00
40185322012	P-402E	Water	04/01/19 00:00	05/14/19 00:00
40185322013	P-422B	Water	04/01/19 00:00	05/14/19 00:00
40185322014	P-423D	Water	04/01/19 00:00	05/14/19 00:00
40185322015	P-424D	Water	04/01/19 00:00	05/14/19 00:00
40185322016	P-424SS	Water	04/01/19 00:00	05/14/19 00:00
40185322017	P-426D	Water	04/01/19 00:00	05/14/19 00:00
40185322018	P-429SS	Water	04/01/19 00:00	05/14/19 00:00
40185322019	MW-1B	Water	04/01/19 00:00	05/14/19 00:00
40186571004	P-423D	Water	04/25/19 12:20	04/26/19 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40185322001	P-401D	EPA 6010	TXW	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
40185322002	P-402E	EPA 6010	TXW	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
40185322003	P-424D	EPA 6010	TXW	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
40185322004	P-424SS	EPA 6010	TXW	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
40185322005	MW-1B	EPA 6010	TXW	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
40185322006	TRIP BLANK	EPA 8260	HNW	46	PASI-G
40185425007	P-422B	EPA 6010	TXW	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
40185425008	P-426D	EPA 6010	TXW	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
40186637001	P-429SS	EPA 6010	TXW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

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
40186637002	TRIP BLANK	EPA 8260	LAP	46	PASI-G
40185322011	P-401D		CKV	1	PASI-G
40185322012	P-402E		CKV	1	PASI-G
40185322013	P-422B		CKV	1	PASI-G
40185322014	P-423D		CKV	1	PASI-G
40185322015	P-424D		CKV	1	PASI-G
40185322016	P-424SS		CKV	1	PASI-G
40185322017	P-426D		CKV	1	PASI-G
40185322018	P-429SS		CKV	1	PASI-G
40185322019	MW-1B		CKV	1	PASI-G
40186571004	P-423D	EPA 6010	TXW	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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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-401D **Lab ID: 40185322001** Collected: 04/04/19 12:15 Received: 04/05/19 09:05 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	304000	ug/L	2000	150	1		04/08/19 19:38		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/08/19 23:05	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/08/19 23:05	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/08/19 23:05	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/08/19 23:05	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/08/19 23:05	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/08/19 23:05	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:05	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:05	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:05	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/08/19 23:05	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/08/19 23:05	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/08/19 23:05	78-93-3	
Acetone	<2.7	ug/L	20.0	2.7	1		04/08/19 23:05	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/08/19 23:05	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/08/19 23:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/08/19 23:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/08/19 23:05	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/08/19 23:05	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/08/19 23:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/08/19 23:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/08/19 23:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/08/19 23:05	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/08/19 23:05	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/08/19 23:05	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/08/19 23:05	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/08/19 23:05	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/08/19 23:05	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/08/19 23:05	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/08/19 23:05	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/08/19 23:05	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/08/19 23:05	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/08/19 23:05	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/08/19 23:05	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/08/19 23:05	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/19 23:05	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/08/19 23:05	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/08/19 23:05	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/08/19 23:05	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:05	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/08/19 23:05	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-401D **Lab ID: 40185322001** Collected: 04/04/19 12:15 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/08/19 23:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/08/19 23:05	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/08/19 23:05	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/08/19 23:05	2037-26-5	
Field Data Analytical Method:									
Field pH	7.40	Std. Units			1		04/04/19 12:15		
Field Specific Conductance	622	umhos/cm			1		04/04/19 12:15		
Turbidity	N	NTU			1		04/04/19 12:15		
Apparent Color	N	no units			1		04/04/19 12:15		
Odor	N	no units			1		04/04/19 12:15		
Temperature, Water (C)	8.8	deg C			1		04/04/19 12:15		
300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	16.8	mg/L	10.0	2.5	5		04/17/19 00:45	16887-00-6	
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	333	mg/L	23.5	7.0	1		04/10/19 10:23		

Sample: P-402E **Lab ID: 40185322002** Collected: 04/04/19 11:35 Received: 04/05/19 09:05 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	445000	ug/L	2000	150	1		04/08/19 19:50		
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.61	ug/L	2.5	0.61	2.5		04/09/19 04:50	71-55-6	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		04/09/19 04:50	79-00-5	
1,1-Dichloroethane	0.94J	ug/L	2.5	0.68	2.5		04/09/19 04:50	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		04/09/19 04:50	75-35-4	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		04/09/19 04:50	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		04/09/19 04:50	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		04/09/19 04:50	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		04/09/19 04:50	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		04/09/19 04:50	78-87-5	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		04/09/19 04:50	541-73-1	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		04/09/19 04:50	106-46-7	
2-Butanone (MEK)	<7.3	ug/L	50.0	7.3	2.5		04/09/19 04:50	78-93-3	
Acetone	<6.9	ug/L	50.0	6.9	2.5		04/09/19 04:50	67-64-1	
Benzene	<0.62	ug/L	2.5	0.62	2.5		04/09/19 04:50	71-43-2	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-402E Lab ID: 40185322002 Collected: 04/04/19 11:35 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		04/09/19 04:50	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		04/09/19 04:50	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		04/09/19 04:50	74-83-9	
Carbon disulfide	<0.94	ug/L	12.5	0.94	2.5		04/09/19 04:50	75-15-0	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		04/09/19 04:50	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		04/09/19 04:50	108-90-7	
Chloroethane	4.6J	ug/L	12.5	3.4	2.5		04/09/19 04:50	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		04/09/19 04:50	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		04/09/19 04:50	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		04/09/19 04:50	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		04/09/19 04:50	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		04/09/19 04:50	75-71-8	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		04/09/19 04:50	100-41-4	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		04/09/19 04:50	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		04/09/19 04:50	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		04/09/19 04:50	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		04/09/19 04:50	100-42-5	
Tetrachloroethene	1.5J	ug/L	2.7	0.82	2.5		04/09/19 04:50	127-18-4	
Tetrahydrofuran	<5.8	ug/L	50.0	5.8	2.5		04/09/19 04:50	109-99-9	
Toluene	<0.43	ug/L	12.5	0.43	2.5		04/09/19 04:50	108-88-3	
Trichloroethene	1.7J	ug/L	2.5	0.64	2.5		04/09/19 04:50	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		04/09/19 04:50	75-69-4	
Vinyl chloride	25.5	ug/L	2.5	0.44	2.5		04/09/19 04:50	75-01-4	
cis-1,2-Dichloroethene	231	ug/L	2.5	0.68	2.5		04/09/19 04:50	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		04/09/19 04:50	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		04/09/19 04:50	179601-23-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		04/09/19 04:50	95-47-6	
trans-1,2-Dichloroethene	7.2J	ug/L	9.1	2.7	2.5		04/09/19 04:50	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		04/09/19 04:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2.5		04/09/19 04:50	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		2.5		04/09/19 04:50	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2.5		04/09/19 04:50	2037-26-5	
Field Data Analytical Method:									
Field pH	7.02	Std. Units			1		04/04/19 11:35		
Field Specific Conductance	858	umhos/cm			1		04/04/19 11:35		
Turbidity	N	NTU			1		04/04/19 11:35		
Apparent Color	N	no units			1		04/04/19 11:35		
Odor	N	no units			1		04/04/19 11:35		
Temperature, Water (C)	10.8	deg C			1		04/04/19 11:35		
300.0 IC Anions 28 Days, Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	53.3	mg/L	2.0	0.50	1		04/17/19 01:00	16887-00-6	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-402E **Lab ID: 40185322002** Collected: 04/04/19 11:35 Received: 04/05/19 09:05 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	362	mg/L	47.0	14.1	2		04/10/19 10:24		

Sample: P-424D **Lab ID: 40185322003** Collected: 04/04/19 13:00 Received: 04/05/19 09:05 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	436000	ug/L	2000	150	1		04/08/19 19:52		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/09/19 01:58	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/09/19 01:58	79-00-5	
1,1-Dichloroethane	0.82J	ug/L	1.0	0.27	1		04/09/19 01:58	75-34-3	
1,1-Dichloroethene	0.41J	ug/L	1.0	0.24	1		04/09/19 01:58	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/09/19 01:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/09/19 01:58	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 01:58	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/09/19 01:58	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/09/19 01:58	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/09/19 01:58	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/09/19 01:58	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/09/19 01:58	78-93-3	
Acetone	3.5J	ug/L	20.0	2.7	1		04/09/19 01:58	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/09/19 01:58	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/09/19 01:58	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/09/19 01:58	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/09/19 01:58	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/09/19 01:58	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/09/19 01:58	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 01:58	108-90-7	
Chloroethane	2.9J	ug/L	5.0	1.3	1		04/09/19 01:58	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/09/19 01:58	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/09/19 01:58	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/09/19 01:58	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/09/19 01:58	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/09/19 01:58	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/09/19 01:58	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/09/19 01:58	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/09/19 01:58	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/09/19 01:58	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/09/19 01:58	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/09/19 01:58	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/09/19 01:58	109-99-9	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-424D **Lab ID: 40185322003** Collected: 04/04/19 13:00 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		04/09/19 01:58	108-88-3	
Trichloroethene	1.9	ug/L	1.0	0.26	1		04/09/19 01:58	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/09/19 01:58	75-69-4	
Vinyl chloride	8.4	ug/L	1.0	0.17	1		04/09/19 01:58	75-01-4	
cis-1,2-Dichloroethene	115	ug/L	1.0	0.27	1		04/09/19 01:58	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/09/19 01:58	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/09/19 01:58	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/09/19 01:58	95-47-6	
trans-1,2-Dichloroethene	3.6J	ug/L	3.6	1.1	1		04/09/19 01:58	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/09/19 01:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/09/19 01:58	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/09/19 01:58	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/09/19 01:58	2037-26-5	

Field Data Analytical Method:									
Field pH	7.16	Std. Units			1		04/04/19 13:00		
Field Specific Conductance	784	umhos/cm			1		04/04/19 13:00		
Turbidity	N	NTU			1		04/04/19 13:00		
Apparent Color	N	no units			1		04/04/19 13:00		
Odor	N	no units			1		04/04/19 13:00		
Temperature, Water (C)	11.0	deg C			1		04/04/19 13:00		

300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	38.1	mg/L	2.0	0.50	1		04/17/19 01:14	16887-00-6	
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	356	mg/L	23.5	7.0	1		04/10/19 10:25		

Sample: P-424SS **Lab ID: 40185322004** Collected: 04/04/19 14:40 Received: 04/05/19 09:05 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	312000	ug/L	2000	150	1		04/08/19 19:55		
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/08/19 23:27	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/08/19 23:27	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/08/19 23:27	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/08/19 23:27	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/08/19 23:27	96-12-8	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-424SS **Lab ID: 40185322004** Collected: 04/04/19 14:40 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/08/19 23:27	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:27	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:27	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:27	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/08/19 23:27	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/08/19 23:27	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/08/19 23:27	78-93-3	
Acetone	5.9J	ug/L	20.0	2.7	1		04/08/19 23:27	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/08/19 23:27	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/08/19 23:27	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/08/19 23:27	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/08/19 23:27	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/08/19 23:27	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/08/19 23:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/08/19 23:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/08/19 23:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/08/19 23:27	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/08/19 23:27	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/08/19 23:27	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/08/19 23:27	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/08/19 23:27	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/08/19 23:27	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/08/19 23:27	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/08/19 23:27	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/08/19 23:27	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/08/19 23:27	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/08/19 23:27	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/08/19 23:27	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/08/19 23:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/19 23:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/08/19 23:27	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/08/19 23:27	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/08/19 23:27	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:27	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/08/19 23:27	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/08/19 23:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/08/19 23:27	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/08/19 23:27	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/08/19 23:27	2037-26-5	

Field Data

Analytical Method:

Field pH	7.54	Std. Units			1		04/04/19 14:40		
Field Specific Conductance	518	umhos/cm			1		04/04/19 14:40		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-424SS **Lab ID: 40185322004** Collected: 04/04/19 14:40 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Turbidity	N	NTU			1		04/04/19 14:40		
Apparent Color	N	no units			1		04/04/19 14:40		
Odor	N	no units			1		04/04/19 14:40		
Temperature, Water (C)	11.6	deg C			1		04/04/19 14:40		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	0.76J	mg/L	2.0	0.50	1		04/17/19 02:12	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	301	mg/L	23.5	7.0	1		04/10/19 10:26		

Sample: MW-1B **Lab ID: 40185322005** Collected: 04/04/19 11:25 Received: 04/05/19 09:05 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	345000	ug/L	2000	150	1		04/08/19 19:57		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/08/19 23:48	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/08/19 23:48	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/08/19 23:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/08/19 23:48	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/08/19 23:48	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/08/19 23:48	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:48	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:48	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/08/19 23:48	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/08/19 23:48	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/08/19 23:48	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/08/19 23:48	78-93-3	
Acetone	10.3J	ug/L	20.0	2.7	1		04/08/19 23:48	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/08/19 23:48	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/08/19 23:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/08/19 23:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/08/19 23:48	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/08/19 23:48	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/08/19 23:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 23:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/08/19 23:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/08/19 23:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/08/19 23:48	74-87-3	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: MW-1B **Lab ID: 40185322005** Collected: 04/04/19 11:25 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/08/19 23:48	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/08/19 23:48	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/08/19 23:48	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/08/19 23:48	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/08/19 23:48	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/08/19 23:48	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/08/19 23:48	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/08/19 23:48	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/08/19 23:48	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/08/19 23:48	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/08/19 23:48	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/08/19 23:48	75-69-4	
Vinyl chloride	4.2	ug/L	1.0	0.17	1		04/08/19 23:48	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/08/19 23:48	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/08/19 23:48	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/08/19 23:48	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/08/19 23:48	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/08/19 23:48	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/08/19 23:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/08/19 23:48	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/08/19 23:48	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/08/19 23:48	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.02	Std. Units			1		04/04/19 11:25		
Field Specific Conductance	662	umhos/cm			1		04/04/19 11:25		
Turbidity	N	NTU			1		04/04/19 11:25		
Apparent Color	N	no units			1		04/04/19 11:25		
Odor	N	no units			1		04/04/19 11:25		
Temperature, Water (C)	12.5	deg C			1		04/04/19 11:25		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	124	mg/L	10.0	2.5	5		04/17/19 02:26	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	186	mg/L	23.5	7.0	1		04/10/19 10:26		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: TRIP BLANK Lab ID: 40185322006 Collected: 04/04/19 00:00 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/08/19 19:30	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/08/19 19:30	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/08/19 19:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/08/19 19:30	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/08/19 19:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/08/19 19:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 19:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/08/19 19:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/08/19 19:30	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/08/19 19:30	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/08/19 19:30	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/08/19 19:30	78-93-3	
Acetone	<2.7	ug/L	20.0	2.7	1		04/08/19 19:30	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/08/19 19:30	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/08/19 19:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/08/19 19:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/08/19 19:30	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/08/19 19:30	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/08/19 19:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/08/19 19:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/08/19 19:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/08/19 19:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/08/19 19:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/08/19 19:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/08/19 19:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/08/19 19:30	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/08/19 19:30	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/08/19 19:30	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/08/19 19:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/08/19 19:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/08/19 19:30	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/08/19 19:30	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/08/19 19:30	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/08/19 19:30	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/08/19 19:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/08/19 19:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/08/19 19:30	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/08/19 19:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/08/19 19:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/08/19 19:30	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/08/19 19:30	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/08/19 19:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/08/19 19:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/08/19 19:30	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/08/19 19:30	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: TRIP BLANK **Lab ID: 40185322006** Collected: 04/04/19 00:00 Received: 04/05/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	98	%	70-130		1		04/08/19 19:30	2037-26-5	

Sample: P-422B **Lab ID: 40185425007** Collected: 04/05/19 13:15 Received: 04/06/19 09:00 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	173000	ug/L	2000	150	1		04/08/19 20:29		
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/09/19 19:21	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/09/19 19:21	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/09/19 19:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/09/19 19:21	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/09/19 19:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/09/19 19:21	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 19:21	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/09/19 19:21	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/09/19 19:21	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/09/19 19:21	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/09/19 19:21	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/09/19 19:21	78-93-3	
Acetone	<2.7	ug/L	20.0	2.7	1		04/09/19 19:21	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/09/19 19:21	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/09/19 19:21	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/09/19 19:21	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/09/19 19:21	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/09/19 19:21	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/09/19 19:21	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 19:21	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/09/19 19:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/09/19 19:21	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/09/19 19:21	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/09/19 19:21	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/09/19 19:21	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/09/19 19:21	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/09/19 19:21	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/09/19 19:21	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/09/19 19:21	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/09/19 19:21	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/09/19 19:21	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/09/19 19:21	127-18-4	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-422B **Lab ID: 40185425007** Collected: 04/05/19 13:15 Received: 04/06/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/09/19 19:21	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/09/19 19:21	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/09/19 19:21	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/09/19 19:21	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/09/19 19:21	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/09/19 19:21	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/09/19 19:21	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/09/19 19:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/09/19 19:21	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/09/19 19:21	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/09/19 19:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		04/09/19 19:21	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/09/19 19:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/09/19 19:21	2037-26-5	

Field Data Analytical Method:									
Field pH	7.62	Std. Units			1		04/05/19 13:15		
Field Specific Conductance	209	umhos/cm			1		04/05/19 13:15		
Turbidity	N	NTU			1		04/05/19 13:15		
Apparent Color	N	no units			1		04/05/19 13:15		
Odor	N	no units			1		04/05/19 13:15		
Temperature, Water (C)	10.1	deg C			1		04/05/19 13:15		

300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	10.1	mg/L	2.0	0.50	1		04/17/19 18:11	16887-00-6	
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	210	mg/L	47.0	14.1	2		04/10/19 10:52		M0

Sample: P-426D **Lab ID: 40185425008** Collected: 04/05/19 13:15 Received: 04/06/19 09:00 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	437000	ug/L	2000	150	1		04/08/19 20:32		
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/09/19 19:43	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/09/19 19:43	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/09/19 19:43	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/09/19 19:43	75-35-4	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-426D **Lab ID: 40185425008** Collected: 04/05/19 13:15 Received: 04/06/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/09/19 19:43	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/09/19 19:43	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 19:43	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/09/19 19:43	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/09/19 19:43	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/09/19 19:43	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/09/19 19:43	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/09/19 19:43	78-93-3	
Acetone	<2.7	ug/L	20.0	2.7	1		04/09/19 19:43	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/09/19 19:43	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/09/19 19:43	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/09/19 19:43	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/09/19 19:43	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/09/19 19:43	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/09/19 19:43	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/09/19 19:43	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/09/19 19:43	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/09/19 19:43	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/09/19 19:43	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/09/19 19:43	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/09/19 19:43	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/09/19 19:43	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/09/19 19:43	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/09/19 19:43	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/09/19 19:43	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/09/19 19:43	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/09/19 19:43	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/09/19 19:43	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/09/19 19:43	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/09/19 19:43	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/09/19 19:43	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/09/19 19:43	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/09/19 19:43	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/09/19 19:43	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/09/19 19:43	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/09/19 19:43	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/09/19 19:43	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		04/09/19 19:43	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/09/19 19:43	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/09/19 19:43	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/09/19 19:43	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/09/19 19:43	2037-26-5	

Field Data

Analytical Method:

Field pH **7.57** Std. Units 1 04/05/19 13:15

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-426D **Lab ID: 40185425008** Collected: 04/05/19 13:15 Received: 04/06/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field Specific Conductance	777	umhos/cm			1		04/05/19 13:15		
Turbidity	N	NTU			1		04/05/19 13:15		
Apparent Color	N	no units			1		04/05/19 13:15		
Odor	N	no units			1		04/05/19 13:15		
Temperature, Water (C)	13.1	deg C			1		04/05/19 13:15		
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	36.2	mg/L	2.0	0.50	1		04/17/19 18:24	16887-00-6	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO ₃ , Dissolved	319	mg/L	23.5	7.0	1		04/10/19 11:49		

Sample: P-429SS **Lab ID: 40186637001** Collected: 04/26/19 14:15 Received: 04/27/19 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	328000	ug/L	2000	150	1		05/02/19 20:25		
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/01/19 14:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/01/19 14:42	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/01/19 14:42	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/01/19 14:42	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/01/19 14:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/01/19 14:42	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/01/19 14:42	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/01/19 14:42	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/01/19 14:42	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/01/19 14:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/01/19 14:42	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		05/01/19 14:42	78-93-3	
Acetone	40.8	ug/L	20.0	2.7	1		05/01/19 14:42	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		05/01/19 14:42	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/01/19 14:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/01/19 14:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/01/19 14:42	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		05/01/19 14:42	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/01/19 14:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/01/19 14:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/01/19 14:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/01/19 14:42	67-66-3	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-429SS **Lab ID: 40186637001** Collected: 04/26/19 14:15 Received: 04/27/19 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/01/19 14:42	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/01/19 14:42	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/01/19 14:42	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/01/19 14:42	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/01/19 14:42	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/01/19 14:42	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/01/19 14:42	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/01/19 14:42	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		05/01/19 14:42	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/01/19 14:42	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/01/19 14:42	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/01/19 14:42	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/01/19 14:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/01/19 14:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/01/19 14:42	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/01/19 14:42	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/01/19 14:42	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/01/19 14:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/01/19 14:42	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/01/19 14:42	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/01/19 14:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		05/01/19 14:42	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		05/01/19 14:42	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/01/19 14:42	2037-26-5	
Field Data Analytical Method:									
Field pH	7.68	Std. Units			1		04/26/19 14:15		
Field Specific Conductance	651	umhos/cm			1		04/26/19 14:15		
Turbidity	N	NTU			1		04/26/19 14:15		
Apparent Color	N	no units			1		04/26/19 14:15		
Odor	N	no units			1		04/26/19 14:15		
Temperature, Water (C)	14.0	deg C			1		04/26/19 14:15		
300.0 IC Anions 28 Days,Diss Analytical Method: EPA 300.0									
Chloride, Dissolved	1.2J	mg/L	2.0	0.50	1		05/07/19 15:56	16887-00-6	
310.2 Alkalinity, Dissolved Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO ₃ , Dissolved	317	mg/L	47.0	14.1	2		05/02/19 11:05		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Sample Project No.: 40185322

Sample: TRIP BLANK Lab ID: 40186637002 Collected: 04/26/19 00:00 Received: 04/27/19 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	<0.24	ug/L	1.0	0.24	1		05/01/19 09:16	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/01/19 09:16	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/01/19 09:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/01/19 09:16	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/01/19 09:16	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/01/19 09:16	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/01/19 09:16	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/01/19 09:16	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/01/19 09:16	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/01/19 09:16	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/01/19 09:16	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		05/01/19 09:16	78-93-3	
Acetone	<2.7	ug/L	20.0	2.7	1		05/01/19 09:16	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		05/01/19 09:16	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/01/19 09:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/01/19 09:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/01/19 09:16	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		05/01/19 09:16	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/01/19 09:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/01/19 09:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/01/19 09:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/01/19 09:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/01/19 09:16	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/01/19 09:16	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/01/19 09:16	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/01/19 09:16	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/01/19 09:16	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/01/19 09:16	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/01/19 09:16	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/01/19 09:16	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		05/01/19 09:16	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/01/19 09:16	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/01/19 09:16	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/01/19 09:16	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/01/19 09:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/01/19 09:16	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/01/19 09:16	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/01/19 09:16	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/01/19 09:16	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/01/19 09:16	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/01/19 09:16	95-47-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/01/19 09:16	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/01/19 09:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		05/01/19 09:16	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		05/01/19 09:16	1868-53-7	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

Sample: TRIP BLANK		Lab ID: 40186637002		Collected: 04/26/19 00:00	Received: 04/27/19 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)	93	%	70-130		1		05/01/19 09:16	2037-26-5		

Sample: P-401D		Lab ID: 40185322011		Collected: 04/01/19 00:00	Received: 05/14/19 00:00	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data		Analytical Method:								
Static Water Level	856.80	feet			1		04/01/19 00:00			

Sample: P-402E		Lab ID: 40185322012		Collected: 04/01/19 00:00	Received: 05/14/19 00:00	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data		Analytical Method:								
Static Water Level	855.98	feet			1		04/01/19 00:00			

Sample: P-422B		Lab ID: 40185322013		Collected: 04/01/19 00:00	Received: 05/14/19 00:00	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data		Analytical Method:								
Static Water Level	927.09	feet			1		04/01/19 00:00			

Sample: P-423D		Lab ID: 40185322014		Collected: 04/01/19 00:00	Received: 05/14/19 00:00	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data		Analytical Method:								
Static Water Level	854.44	feet			1		04/01/19 00:00			

Sample: P-424D		Lab ID: 40185322015		Collected: 04/01/19 00:00	Received: 05/14/19 00:00	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual

Field Data		Analytical Method:								
Static Water Level	855.40	feet			1		04/01/19 00:00			

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-424SS **Lab ID: 40185322016** Collected: 04/01/19 00:00 Received: 05/14/19 00:00 Matrix: Water

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

Static Water Level	854.83	feet			1		04/01/19 00:00		
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Sample: P-426D **Lab ID: 40185322017** Collected: 04/01/19 00:00 Received: 05/14/19 00:00 Matrix: Water

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

Static Water Level	856.15	feet			1		04/01/19 00:00		
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Sample: P-429SS **Lab ID: 40185322018** Collected: 04/01/19 00:00 Received: 05/14/19 00:00 Matrix: Water

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

Static Water Level	848.89	feet			1		04/01/19 00:00		
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Sample: MW-1B **Lab ID: 40185322019** Collected: 04/01/19 00:00 Received: 05/14/19 00:00 Matrix: Water

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

Static Water Level	926.68	feet			1		04/01/19 00:00		
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Sample: P-423D **Lab ID: 40186571004** Collected: 04/25/19 12:20 Received: 04/26/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP, Dissolved Analytical Method: EPA 6010

Total Hardness by 2340B, Dissolved	428000	ug/L	2000	150	1		04/30/19 20:37		
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8260 MSV Analytical Method: EPA 8260

1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/30/19 20:13	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/30/19 20:13	79-00-5	
1,1-Dichloroethane	0.66J	ug/L	1.0	0.27	1		04/30/19 20:13	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/30/19 20:13	75-35-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/30/19 20:13	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/30/19 20:13	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/30/19 20:13	95-50-1	

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-423D **Lab ID: 40186571004** Collected: 04/25/19 12:20 Received: 04/26/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/30/19 20:13	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/30/19 20:13	78-87-5	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/30/19 20:13	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/30/19 20:13	106-46-7	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		04/30/19 20:13	78-93-3	
Acetone	7.7J	ug/L	20.0	2.7	1		04/30/19 20:13	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		04/30/19 20:13	71-43-2	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/30/19 20:13	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/30/19 20:13	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/30/19 20:13	74-83-9	
Carbon disulfide	<0.37	ug/L	5.0	0.37	1		04/30/19 20:13	75-15-0	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		04/30/19 20:13	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/30/19 20:13	108-90-7	
Chloroethane	2.8J	ug/L	5.0	1.3	1		04/30/19 20:13	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/30/19 20:13	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/30/19 20:13	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/30/19 20:13	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/30/19 20:13	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/30/19 20:13	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/30/19 20:13	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/30/19 20:13	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/30/19 20:13	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/30/19 20:13	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		04/30/19 20:13	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/30/19 20:13	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		04/30/19 20:13	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		04/30/19 20:13	108-88-3	
Trichloroethene	0.59J	ug/L	1.0	0.26	1		04/30/19 20:13	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/30/19 20:13	75-69-4	
Vinyl chloride	2.5	ug/L	1.0	0.17	1		04/30/19 20:13	75-01-4	
cis-1,2-Dichloroethene	80.4	ug/L	1.0	0.27	1		04/30/19 20:13	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/30/19 20:13	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/30/19 20:13	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/30/19 20:13	95-47-6	
trans-1,2-Dichloroethene	4.1	ug/L	3.6	1.1	1		04/30/19 20:13	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/30/19 20:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/30/19 20:13	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		04/30/19 20:13	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/30/19 20:13	2037-26-5	

Field Data

Analytical Method:

Field pH	7.30	Std. Units			1		04/25/19 12:20		
Field Specific Conductance	799	umhos/cm			1		04/25/19 12:20		
Turbidity	N	NTU			1		04/25/19 12:20		
Apparent Color	N	no units			1		04/25/19 12:20		

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ANALYTICAL RESULTS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Sample: P-423D **Lab ID: 40186571004** Collected: 04/25/19 12:20 Received: 04/26/19 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Odor	N	no units			1		04/25/19 12:20		
Temperature, Water (C)	11.3	deg C			1		04/25/19 12:20		
300.0 IC Anions 28 Days,Diss	Analytical Method: EPA 300.0								
Chloride, Dissolved	36.3	mg/L	2.0	0.50	1		05/07/19 14:55	16887-00-6	
310.2 Alkalinity, Dissolved	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO ₃ , Dissolved	358	mg/L	47.0	14.1	2		05/06/19 10:04		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317712

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005, 40185425007, 40185425008

METHOD BLANK: 1847220

Matrix: Water

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005, 40185425007, 40185425008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/08/19 19:33	

LABORATORY CONTROL SAMPLE: 1847221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32900			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847222 1847223

Parameter	Units	40185322001 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	304000			328000	325000				1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 319953	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40186571004	

METHOD BLANK: 1858827 Matrix: Water

Associated Lab Samples: 40186571004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	<150	2000	04/30/19 19:35	

LABORATORY CONTROL SAMPLE: 1858828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		32900			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858829 1858830

Parameter	Units	40186461001 Result	MS Spike Conc.	MSD Spike Conc.	1858829		1858830		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Total Hardness by 2340B, Dissolved	ug/L	917000			927000	926000				0	20

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 320202

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40186637001

METHOD BLANK: 1860304

Matrix: Water

Associated Lab Samples: 40186637001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L	382J	2000	05/02/19 19:48	

LABORATORY CONTROL SAMPLE: 1860305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	ug/L		33300			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860306 1860307

Parameter	Units	40186587001		1860306		1860307		% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Total Hardness by 2340B, Dissolved	ug/L	358000		385000	383000				1	20

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317545 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005, 40185322006

METHOD BLANK: 1846474 Matrix: Water
 Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005, 40185322006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/08/19 18:04	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/08/19 18:04	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/08/19 18:04	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/08/19 18:04	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/08/19 18:04	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/08/19 18:04	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/08/19 18:04	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/08/19 18:04	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/08/19 18:04	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/08/19 18:04	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/08/19 18:04	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/08/19 18:04	
Acetone	ug/L	<2.7	20.0	04/08/19 18:04	
Benzene	ug/L	<0.25	1.0	04/08/19 18:04	
Bromodichloromethane	ug/L	<0.36	1.2	04/08/19 18:04	
Bromoform	ug/L	<4.0	13.2	04/08/19 18:04	
Bromomethane	ug/L	<0.97	5.0	04/08/19 18:04	
Carbon disulfide	ug/L	<0.37	5.0	04/08/19 18:04	
Carbon tetrachloride	ug/L	<0.17	1.0	04/08/19 18:04	
Chlorobenzene	ug/L	<0.71	2.4	04/08/19 18:04	
Chloroethane	ug/L	<1.3	5.0	04/08/19 18:04	
Chloroform	ug/L	<1.3	5.0	04/08/19 18:04	
Chloromethane	ug/L	<2.2	7.3	04/08/19 18:04	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/08/19 18:04	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/08/19 18:04	
Dibromochloromethane	ug/L	<2.6	8.7	04/08/19 18:04	
Dibromomethane	ug/L	<0.94	3.1	04/08/19 18:04	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/08/19 18:04	
Ethylbenzene	ug/L	<0.22	1.0	04/08/19 18:04	
m&p-Xylene	ug/L	<0.47	2.0	04/08/19 18:04	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/08/19 18:04	
Methylene Chloride	ug/L	<0.58	5.0	04/08/19 18:04	
Naphthalene	ug/L	<1.2	5.0	04/08/19 18:04	
o-Xylene	ug/L	<0.26	1.0	04/08/19 18:04	
Styrene	ug/L	<0.47	1.6	04/08/19 18:04	
Tetrachloroethene	ug/L	<0.33	1.1	04/08/19 18:04	
Tetrahydrofuran	ug/L	<2.3	20.0	04/08/19 18:04	
Toluene	ug/L	<0.17	5.0	04/08/19 18:04	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/08/19 18:04	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/08/19 18:04	
Trichloroethene	ug/L	<0.26	1.0	04/08/19 18:04	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

METHOD BLANK: 1846474

Matrix: Water

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005, 40185322006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	04/08/19 18:04	
Vinyl chloride	ug/L	<0.17	1.0	04/08/19 18:04	
4-Bromofluorobenzene (S)	%	91	70-130	04/08/19 18:04	
Dibromofluoromethane (S)	%	97	70-130	04/08/19 18:04	
Toluene-d8 (S)	%	98	70-130	04/08/19 18:04	

LABORATORY CONTROL SAMPLE: 1846475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.4	105	70-133	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	55.2	110	70-134	
1,1-Dichloroethene	ug/L	50	52.4	105	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	53.8	108	70-130	
1,2-Dichlorobenzene	ug/L	50	55.0	110	70-130	
1,2-Dichloroethane	ug/L	50	53.6	107	73-134	
1,2-Dichloropropane	ug/L	50	51.0	102	79-128	
1,3-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,4-Dichlorobenzene	ug/L	50	52.9	106	70-130	
Benzene	ug/L	50	51.8	104	69-137	
Bromodichloromethane	ug/L	50	53.7	107	70-130	
Bromoform	ug/L	50	48.7	97	64-133	
Bromomethane	ug/L	50	40.0	80	29-123	
Carbon disulfide	ug/L	50	51.0	102	67-153	
Carbon tetrachloride	ug/L	50	53.8	108	73-142	
Chlorobenzene	ug/L	50	54.9	110	70-130	
Chloroethane	ug/L	50	45.9	92	59-133	
Chloroform	ug/L	50	51.1	102	80-129	
Chloromethane	ug/L	50	30.8	62	27-125	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	70-134	
cis-1,3-Dichloropropene	ug/L	50	44.6	89	70-130	
Dibromochloromethane	ug/L	50	53.9	108	70-130	
Dichlorodifluoromethane	ug/L	50	31.5	63	12-127	
Ethylbenzene	ug/L	50	56.9	114	86-127	
m&p-Xylene	ug/L	100	114	114	70-131	
Methyl-tert-butyl ether	ug/L	50	51.6	103	65-136	
Methylene Chloride	ug/L	50	53.4	107	72-133	
o-Xylene	ug/L	50	57.5	115	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	53.4	107	70-130	
Toluene	ug/L	50	54.7	109	84-124	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	70-133	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	67-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

LABORATORY CONTROL SAMPLE: 1846475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	69-147	
Vinyl chloride	ug/L	50	41.3	83	48-134	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1846988 1846989

Parameter	Units	40185318002		MSD		MS		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	<0.24	50	50	53.1	53.2	106	106	70-136	0	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.1	52.5	106	105	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	55.3	55.4	111	111	70-139	0	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	52.3	52.9	105	106	72-137	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	49.1	47.9	98	96	60-130	3	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	53.9	53.7	108	107	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	55.1	54.2	110	108	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	53.8	53.6	108	107	71-137	0	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	49.1	49.4	98	99	78-130	1	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.8	52.3	106	105	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.6	52.4	107	105	70-130	2	20		
Benzene	ug/L	<0.25	50	50	53.2	52.8	106	106	66-143	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	53.8	53.2	108	106	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	49.1	48.6	98	97	64-134	1	20		
Bromomethane	ug/L	<0.97	50	50	41.5	40.4	83	81	29-136	3	25		
Carbon disulfide	ug/L	<0.37	50	50	51.6	51.3	103	103	67-156	1	21		
Carbon tetrachloride	ug/L	<0.17	50	50	56.7	55.4	113	111	73-142	2	20		
Chlorobenzene	ug/L	<0.71	50	50	54.4	54.3	109	109	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	46.7	47.1	93	94	58-138	1	20		
Chloroform	ug/L	<1.3	50	50	51.9	51.4	104	103	80-131	1	20		
Chloromethane	ug/L	<2.2	50	50	29.1	28.9	58	58	24-125	1	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.0	52.1	102	104	68-137	2	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.2	46.4	92	93	70-130	0	20		
Dibromochloromethane	ug/L	<2.6	50	50	54.5	54.0	109	108	70-131	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.9	28.1	56	56	10-127	1	20		
Ethylbenzene	ug/L	<0.22	50	50	57.7	57.0	115	114	81-136	1	20		
m&p-Xylene	ug/L	<0.47	100	100	116	114	116	114	70-135	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	52.3	52.3	105	105	58-142	0	23		
Methylene Chloride	ug/L	<0.58	50	50	55.3	55.0	111	110	69-137	1	20		
o-Xylene	ug/L	<0.26	50	50	58.5	57.7	117	115	70-132	1	20		
Styrene	ug/L	<0.47	50	50	54.2	52.8	108	106	70-130	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	54.3	53.1	109	106	70-132	2	20		
Toluene	ug/L	<0.17	50	50	55.0	54.3	110	109	81-130	1	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1846988		1846989		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40185318002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	54.9	54.9	110	110	70-136	0	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.3	47.0	93	94	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	54.6	54.6	109	109	70-131	0	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.9	53.0	106	106	66-150	0	20	
Vinyl chloride	ug/L	<0.17	50	50	39.9	40.1	80	80	46-134	0	20	
4-Bromofluorobenzene (S)	%						101	100	70-130			
Dibromofluoromethane (S)	%						99	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317629 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40185425007, 40185425008

METHOD BLANK: 1846986 Matrix: Water

Associated Lab Samples: 40185425007, 40185425008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/09/19 11:19	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/09/19 11:19	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/09/19 11:19	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/09/19 11:19	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/09/19 11:19	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/09/19 11:19	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/09/19 11:19	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/09/19 11:19	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/09/19 11:19	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/09/19 11:19	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/09/19 11:19	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/09/19 11:19	
Acetone	ug/L	<2.7	20.0	04/09/19 11:19	
Benzene	ug/L	<0.25	1.0	04/09/19 11:19	
Bromodichloromethane	ug/L	<0.36	1.2	04/09/19 11:19	
Bromoform	ug/L	<4.0	13.2	04/09/19 11:19	
Bromomethane	ug/L	<0.97	5.0	04/09/19 11:19	
Carbon disulfide	ug/L	<0.37	5.0	04/09/19 11:19	
Carbon tetrachloride	ug/L	<0.17	1.0	04/09/19 11:19	
Chlorobenzene	ug/L	<0.71	2.4	04/09/19 11:19	
Chloroethane	ug/L	<1.3	5.0	04/09/19 11:19	
Chloroform	ug/L	<1.3	5.0	04/09/19 11:19	
Chloromethane	ug/L	<2.2	7.3	04/09/19 11:19	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/09/19 11:19	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/09/19 11:19	
Dibromochloromethane	ug/L	<2.6	8.7	04/09/19 11:19	
Dibromomethane	ug/L	<0.94	3.1	04/09/19 11:19	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/09/19 11:19	
Ethylbenzene	ug/L	<0.22	1.0	04/09/19 11:19	
m&p-Xylene	ug/L	<0.47	2.0	04/09/19 11:19	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/09/19 11:19	
Methylene Chloride	ug/L	<0.58	5.0	04/09/19 11:19	
Naphthalene	ug/L	<1.2	5.0	04/09/19 11:19	
o-Xylene	ug/L	<0.26	1.0	04/09/19 11:19	
Styrene	ug/L	<0.47	1.6	04/09/19 11:19	
Tetrachloroethene	ug/L	<0.33	1.1	04/09/19 11:19	
Tetrahydrofuran	ug/L	<2.3	20.0	04/09/19 11:19	
Toluene	ug/L	<0.17	5.0	04/09/19 11:19	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/09/19 11:19	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/09/19 11:19	
Trichloroethene	ug/L	<0.26	1.0	04/09/19 11:19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

METHOD BLANK: 1846986

Matrix: Water

Associated Lab Samples: 40185425007, 40185425008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	04/09/19 11:19	
Vinyl chloride	ug/L	<0.17	1.0	04/09/19 11:19	
4-Bromofluorobenzene (S)	%	86	70-130	04/09/19 11:19	
Dibromofluoromethane (S)	%	95	70-130	04/09/19 11:19	
Toluene-d8 (S)	%	99	70-130	04/09/19 11:19	

LABORATORY CONTROL SAMPLE: 1846987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.1	106	70-133	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	47.6	95	70-134	
1,1-Dichloroethene	ug/L	50	46.2	92	75-132	
1,2-Dibromo-3-chloropropane	ug/L	50	44.9	90	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane	ug/L	50	51.5	103	73-134	
1,2-Dichloropropane	ug/L	50	51.5	103	79-128	
1,3-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	52.0	104	69-137	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	47.7	95	64-133	
Bromomethane	ug/L	50	43.9	88	29-123	
Carbon disulfide	ug/L	50	49.4	99	67-153	
Carbon tetrachloride	ug/L	50	48.1	96	73-142	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	45.0	90	59-133	
Chloroform	ug/L	50	51.0	102	80-129	
Chloromethane	ug/L	50	39.2	78	27-125	
cis-1,2-Dichloroethene	ug/L	50	44.6	89	70-134	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Dibromochloromethane	ug/L	50	50.9	102	70-130	
Dichlorodifluoromethane	ug/L	50	39.9	80	12-127	
Ethylbenzene	ug/L	50	52.1	104	86-127	
m&p-Xylene	ug/L	100	105	105	70-131	
Methyl-tert-butyl ether	ug/L	50	44.4	89	65-136	
Methylene Chloride	ug/L	50	45.9	92	72-133	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	49.0	98	70-130	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	51.6	103	84-124	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	70-133	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	67-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

LABORATORY CONTROL SAMPLE: 1846987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	52.3	105	70-130	
Trichlorofluoromethane	ug/L	50	46.3	93	69-147	
Vinyl chloride	ug/L	50	46.8	94	48-134	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847035 1847036

Parameter	Units	40185403001		MSD		MS		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	<0.24	50	50	54.9	50.7	110	101	70-136	8	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	54.3	49.6	109	99	70-130	9	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	48.2	45.1	96	90	70-139	7	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	47.6	43.5	95	87	72-137	9	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	48.7	46.4	97	93	60-130	5	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.1	49.7	108	99	70-130	9	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.0	47.6	100	95	70-130	5	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	52.7	48.9	105	98	71-137	8	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	52.9	50.3	106	101	78-130	5	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.3	46.4	99	93	70-130	6	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.7	48.1	103	96	70-130	7	20		
Benzene	ug/L	<0.25	50	50	53.4	49.9	107	100	66-143	7	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.5	48.3	101	97	70-130	4	20		
Bromoform	ug/L	<4.0	50	50	49.9	47.0	100	94	64-134	6	20		
Bromomethane	ug/L	<0.97	50	50	48.0	44.8	96	90	29-136	7	25		
Carbon disulfide	ug/L	<0.37	50	50	50.2	46.4	100	93	67-156	8	21		
Carbon tetrachloride	ug/L	<0.17	50	50	49.7	46.0	99	92	73-142	8	20		
Chlorobenzene	ug/L	<0.71	50	50	53.6	48.4	107	97	70-130	10	20		
Chloroethane	ug/L	<1.3	50	50	47.2	43.7	94	87	58-138	8	20		
Chloroform	ug/L	<1.3	50	50	51.8	48.1	104	96	80-131	7	20		
Chloromethane	ug/L	<2.2	50	50	37.9	35.4	76	71	24-125	7	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.8	42.3	92	85	68-137	8	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.5	48.6	103	97	70-130	6	20		
Dibromochloromethane	ug/L	<2.6	50	50	52.7	49.7	105	99	70-131	6	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	37.4	34.2	75	68	10-127	9	20		
Ethylbenzene	ug/L	<0.22	50	50	55.8	51.0	112	102	81-136	9	20		
m&p-Xylene	ug/L	<0.47	100	100	113	100	113	100	70-135	12	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	45.4	42.6	91	85	58-142	6	23		
Methylene Chloride	ug/L	<0.58	50	50	46.6	43.2	93	86	69-137	8	20		
o-Xylene	ug/L	<0.26	50	50	55.8	50.9	112	102	70-132	9	20		
Styrene	ug/L	<0.47	50	50	51.2	47.8	102	96	70-130	7	20		
Tetrachloroethene	ug/L	<0.33	50	50	51.9	47.8	104	95	70-132	8	20		
Toluene	ug/L	<0.17	50	50	54.1	49.6	108	99	81-130	9	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847035		1847036		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40185403001 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	47.6	43.6	95	87	70-136	9	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	50.4	46.0	101	92	67-130	9	20		
Trichloroethene	ug/L	<0.26	50	50	53.5	50.6	107	101	70-131	5	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	48.0	44.2	96	88	66-150	8	20		
Vinyl chloride	ug/L	<0.17	50	50	45.8	42.2	92	84	46-134	8	20		
4-Bromofluorobenzene (S)	%						98	95	70-130				
Dibromofluoromethane (S)	%						97	97	70-130				
Toluene-d8 (S)	%						99	96	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch:	319733	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40186571004		

METHOD BLANK: 1858040 Matrix: Water

Associated Lab Samples: 40186571004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/30/19 15:44	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/30/19 15:44	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/30/19 15:44	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/30/19 15:44	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/30/19 15:44	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/30/19 15:44	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/30/19 15:44	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/30/19 15:44	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/30/19 15:44	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/30/19 15:44	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/30/19 15:44	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/30/19 15:44	
Acetone	ug/L	<2.7	20.0	04/30/19 15:44	
Benzene	ug/L	<0.25	1.0	04/30/19 15:44	
Bromodichloromethane	ug/L	<0.36	1.2	04/30/19 15:44	
Bromoform	ug/L	<4.0	13.2	04/30/19 15:44	
Bromomethane	ug/L	<0.97	5.0	04/30/19 15:44	
Carbon disulfide	ug/L	<0.37	5.0	04/30/19 15:44	
Carbon tetrachloride	ug/L	<0.17	1.0	04/30/19 15:44	
Chlorobenzene	ug/L	<0.71	2.4	04/30/19 15:44	
Chloroethane	ug/L	<1.3	5.0	04/30/19 15:44	
Chloroform	ug/L	<1.3	5.0	04/30/19 15:44	
Chloromethane	ug/L	<2.2	7.3	04/30/19 15:44	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/30/19 15:44	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/30/19 15:44	
Dibromochloromethane	ug/L	<2.6	8.7	04/30/19 15:44	
Dibromomethane	ug/L	<0.94	3.1	04/30/19 15:44	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/30/19 15:44	
Ethylbenzene	ug/L	<0.22	1.0	04/30/19 15:44	
m&p-Xylene	ug/L	<0.47	2.0	04/30/19 15:44	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/30/19 15:44	
Methylene Chloride	ug/L	<0.58	5.0	04/30/19 15:44	
Naphthalene	ug/L	<1.2	5.0	04/30/19 15:44	
o-Xylene	ug/L	<0.26	1.0	04/30/19 15:44	
Styrene	ug/L	<0.47	1.6	04/30/19 15:44	
Tetrachloroethene	ug/L	<0.33	1.1	04/30/19 15:44	
Tetrahydrofuran	ug/L	<2.3	20.0	04/30/19 15:44	
Toluene	ug/L	<0.17	5.0	04/30/19 15:44	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/30/19 15:44	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/30/19 15:44	
Trichloroethene	ug/L	<0.26	1.0	04/30/19 15:44	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

METHOD BLANK: 1858040

Matrix: Water

Associated Lab Samples: 40186571004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	04/30/19 15:44	
Vinyl chloride	ug/L	<0.17	1.0	04/30/19 15:44	
4-Bromofluorobenzene (S)	%	88	70-130	04/30/19 15:44	
Dibromofluoromethane (S)	%	120	70-130	04/30/19 15:44	
Toluene-d8 (S)	%	95	70-130	04/30/19 15:44	

LABORATORY CONTROL SAMPLE: 1858041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1-Dichloroethane	ug/L	50	53.5	107	73-150	
1,1-Dichloroethene	ug/L	50	57.3	115	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	54.6	109	75-140	
1,2-Dichloropropane	ug/L	50	51.5	103	73-135	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	50.2	100	70-130	
Benzene	ug/L	50	56.6	113	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	51.1	102	68-129	
Bromomethane	ug/L	50	47.8	96	18-159	
Carbon disulfide	ug/L	50	56.3	113	69-132	
Carbon tetrachloride	ug/L	50	56.6	113	70-130	
Chlorobenzene	ug/L	50	55.2	110	70-130	
Chloroethane	ug/L	50	55.8	112	53-147	
Chloroform	ug/L	50	52.4	105	74-136	
Chloromethane	ug/L	50	34.7	69	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.9	90	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	32.2	64	10-130	
Ethylbenzene	ug/L	50	51.4	103	80-124	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	40.4	81	54-137	
Methylene Chloride	ug/L	50	61.1	122	73-138	
o-Xylene	ug/L	50	52.8	106	70-130	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Toluene	ug/L	50	54.3	109	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	73-145	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

LABORATORY CONTROL SAMPLE: 1858041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	56.9	114	76-147	
Vinyl chloride	ug/L	50	43.7	87	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858457 1858458

Parameter	Units	40186524002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.3	52.0	105	104	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	50.4	97	101	70-137	3	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	52.5	52.2	105	104	73-153	0	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	56.9	57.1	114	114	73-138	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.4	36.6	81	73	58-129	10	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.5	48.0	97	96	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.2	49.1	102	98	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	54.7	53.9	109	108	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	50.3	50.0	101	100	71-138	1	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.3	49.3	101	99	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.7	50.9	103	102	70-130	2	20		
Benzene	ug/L	<0.25	50	50	55.0	55.7	110	111	70-130	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	48.1	48.8	96	98	70-130	2	20		
Bromoform	ug/L	<4.0	50	50	48.2	48.7	96	97	68-129	1	20		
Bromomethane	ug/L	<0.97	50	50	48.9	48.9	98	98	15-170	0	20		
Carbon disulfide	ug/L	<0.37	50	50	56.4	56.2	113	112	66-145	0	20		
Carbon tetrachloride	ug/L	<0.17	50	50	57.0	57.1	114	114	70-130	0	20		
Chlorobenzene	ug/L	<0.71	50	50	52.9	51.0	106	102	70-130	3	20		
Chloroethane	ug/L	<1.3	50	50	53.7	55.0	107	110	51-148	2	20		
Chloroform	ug/L	<1.3	50	50	55.1	54.6	110	109	74-136	1	20		
Chloromethane	ug/L	<2.2	50	50	32.7	33.4	65	67	23-115	2	20		
cis-1,2-Dichloroethene	ug/L	0.40J	50	50	51.6	52.6	102	104	70-131	2	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.6	44.9	87	90	70-130	3	20		
Dibromochloromethane	ug/L	<2.6	50	50	45.1	46.2	90	92	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.7	25.7	55	51	10-132	7	20		
Ethylbenzene	ug/L	<0.22	50	50	49.1	49.1	98	98	80-125	0	20		
m&p-Xylene	ug/L	<0.47	100	100	103	104	103	104	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.3	38.7	79	77	51-145	2	20		
Methylene Chloride	ug/L	<0.58	50	50	62.1	58.9	124	118	73-140	5	20		
o-Xylene	ug/L	<0.26	50	50	50.2	50.5	100	101	70-130	1	20		
Styrene	ug/L	<0.47	50	50	50.1	50.0	100	100	70-130	0	20		
Tetrachloroethene	ug/L	<0.33	50	50	49.6	50.4	99	101	70-130	1	20		
Toluene	ug/L	<0.17	50	50	51.0	51.3	102	103	80-131	0	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Parameter	Units	1858457		1858458		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40186524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.7	54.6	111	109	73-148	2	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	41.4	41.5	83	83	70-130	0	20		
Trichloroethene	ug/L	0.67J	50	50	51.9	53.0	102	105	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	55.8	55.7	112	111	74-147	0	20		
Vinyl chloride	ug/L	<0.17	50	50	42.3	42.1	85	84	41-129	1	20		
4-Bromofluorobenzene (S)	%						96	94	70-130				
Dibromofluoromethane (S)	%						113	112	70-130				
Toluene-d8 (S)	%						98	98	70-130				

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

QC Batch: 319736 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186637001, 40186637002

METHOD BLANK: 1858046 Matrix: Water
Associated Lab Samples: 40186637001, 40186637002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/01/19 06:16	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/01/19 06:16	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/01/19 06:16	
1,1-Dichloroethene	ug/L	<0.24	1.0	05/01/19 06:16	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/01/19 06:16	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/01/19 06:16	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	05/01/19 06:16	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/01/19 06:16	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/01/19 06:16	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	05/01/19 06:16	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/01/19 06:16	
2-Butanone (MEK)	ug/L	<2.9	20.0	05/01/19 06:16	
Acetone	ug/L	<2.7	20.0	05/01/19 06:16	
Benzene	ug/L	<0.25	1.0	05/01/19 06:16	
Bromodichloromethane	ug/L	<0.36	1.2	05/01/19 06:16	
Bromoform	ug/L	<4.0	13.2	05/01/19 06:16	
Bromomethane	ug/L	<0.97	5.0	05/01/19 06:16	
Carbon disulfide	ug/L	<0.37	5.0	05/01/19 06:16	
Carbon tetrachloride	ug/L	<0.17	1.0	05/01/19 06:16	
Chlorobenzene	ug/L	<0.71	2.4	05/01/19 06:16	
Chloroethane	ug/L	<1.3	5.0	05/01/19 06:16	
Chloroform	ug/L	<1.3	5.0	05/01/19 06:16	
Chloromethane	ug/L	<2.2	7.3	05/01/19 06:16	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	05/01/19 06:16	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/01/19 06:16	
Dibromochloromethane	ug/L	<2.6	8.7	05/01/19 06:16	
Dibromomethane	ug/L	<0.94	3.1	05/01/19 06:16	
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/01/19 06:16	
Ethylbenzene	ug/L	<0.22	1.0	05/01/19 06:16	
m&p-Xylene	ug/L	<0.47	2.0	05/01/19 06:16	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/01/19 06:16	
Methylene Chloride	ug/L	<0.58	5.0	05/01/19 06:16	
Naphthalene	ug/L	<1.2	5.0	05/01/19 06:16	
o-Xylene	ug/L	<0.26	1.0	05/01/19 06:16	
Styrene	ug/L	<0.47	1.6	05/01/19 06:16	
Tetrachloroethane	ug/L	<0.33	1.1	05/01/19 06:16	
Tetrahydrofuran	ug/L	<2.3	20.0	05/01/19 06:16	
Toluene	ug/L	<0.17	5.0	05/01/19 06:16	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/01/19 06:16	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/01/19 06:16	
Trichloroethene	ug/L	<0.26	1.0	05/01/19 06:16	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

METHOD BLANK: 1858046

Matrix: Water

Associated Lab Samples: 40186637001, 40186637002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	<0.21	1.0	05/01/19 06:16	
Vinyl chloride	ug/L	<0.17	1.0	05/01/19 06:16	
4-Bromofluorobenzene (S)	%	88	70-130	05/01/19 06:16	
Dibromofluoromethane (S)	%	119	70-130	05/01/19 06:16	
Toluene-d8 (S)	%	96	70-130	05/01/19 06:16	

LABORATORY CONTROL SAMPLE: 1858047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.2	110	70-130	
1,1,2-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethane	ug/L	50	55.1	110	73-150	
1,1-Dichloroethene	ug/L	50	59.5	119	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	54.0	108	70-130	
1,2-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane	ug/L	50	56.4	113	75-140	
1,2-Dichloropropane	ug/L	50	52.3	105	73-135	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	
Benzene	ug/L	50	58.2	116	70-130	
Bromodichloromethane	ug/L	50	51.7	103	70-130	
Bromoform	ug/L	50	52.5	105	68-129	
Bromomethane	ug/L	50	48.4	97	18-159	
Carbon disulfide	ug/L	50	60.6	121	69-132	
Carbon tetrachloride	ug/L	50	56.7	113	70-130	
Chlorobenzene	ug/L	50	55.0	110	70-130	
Chloroethane	ug/L	50	61.2	122	53-147	
Chloroform	ug/L	50	53.5	107	74-136	
Chloromethane	ug/L	50	38.3	77	29-115	
cis-1,2-Dichloroethene	ug/L	50	54.7	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	70-130	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dichlorodifluoromethane	ug/L	50	39.8	80	10-130	
Ethylbenzene	ug/L	50	53.0	106	80-124	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	43.3	87	54-137	
Methylene Chloride	ug/L	50	62.0	124	73-138	
o-Xylene	ug/L	50	54.4	109	70-130	
Styrene	ug/L	50	54.7	109	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	53.8	108	80-126	
trans-1,2-Dichloroethene	ug/L	50	56.7	113	73-145	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	70-130	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

LABORATORY CONTROL SAMPLE: 1858047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	56.0	112	70-130	
Trichlorofluoromethane	ug/L	50	59.3	119	76-147	
Vinyl chloride	ug/L	50	49.8	100	51-120	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			114	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858449 1858450

Parameter	Units	40186580025		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	56.2	54.4	112	109	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.6	52.3	111	105	70-137	6	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	57.5	54.3	115	109	73-153	6	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	62.7	59.0	125	118	73-138	6	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	41.6	40.4	83	81	58-129	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.7	51.2	109	102	70-130	7	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.9	52.6	106	105	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	58.6	54.7	117	109	75-140	7	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	54.0	51.2	108	102	71-138	5	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.4	50.5	107	101	70-130	6	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.9	51.7	106	103	70-130	2	20		
Benzene	ug/L	<0.25	50	50	61.0	57.0	122	114	70-130	7	20		
Bromodichloromethane	ug/L	<0.36	50	50	52.2	49.5	104	99	70-130	5	20		
Bromoform	ug/L	<4.0	50	50	52.6	50.3	105	101	68-129	4	20		
Bromomethane	ug/L	<0.97	50	50	56.7	58.4	113	117	15-170	3	20		
Carbon disulfide	ug/L	<0.37	50	50	63.5	58.2	127	116	66-145	9	20		
Carbon tetrachloride	ug/L	<0.17	50	50	61.5	57.2	123	114	70-130	7	20		
Chlorobenzene	ug/L	<0.71	50	50	56.5	54.3	113	109	70-130	4	20		
Chloroethane	ug/L	<1.3	50	50	62.6	57.2	125	114	51-148	9	20		
Chloroform	ug/L	<1.3	50	50	59.1	55.3	118	111	74-136	7	20		
Chloromethane	ug/L	<2.2	50	50	41.3	37.0	83	74	23-115	11	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	59.4	55.5	119	111	70-131	7	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.6	46.8	97	94	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.0	47.7	102	95	70-130	7	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	39.7	38.3	79	77	10-132	4	20		
Ethylbenzene	ug/L	<0.22	50	50	54.5	51.0	109	102	80-125	7	20		
m&p-Xylene	ug/L	0.98J	100	100	116	108	115	107	70-130	7	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.8	41.7	90	83	51-145	7	20		
Methylene Chloride	ug/L	<0.58	50	50	64.7	61.1	129	122	73-140	6	20		
o-Xylene	ug/L	<0.26	50	50	56.4	52.9	113	106	70-130	6	20		
Styrene	ug/L	<0.47	50	50	56.1	52.1	112	104	70-130	7	20		
Tetrachloroethene	ug/L	<0.33	50	50	53.5	50.2	107	100	70-130	6	20		
Toluene	ug/L	<0.17	50	50	54.4	52.3	109	105	80-131	4	20		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858449		1858450		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40186580025 Result	MS Spike Conc.	MSD Spike Conc.									
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	59.6	55.8	119	112	73-148	6	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.1	42.8	90	86	70-130	5	20		
Trichloroethene	ug/L	<0.26	50	50	56.5	53.4	113	107	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	62.9	58.0	126	116	74-147	8	20		
Vinyl chloride	ug/L	<0.17	50	50	52.5	50.1	105	100	41-129	5	20		
4-Bromofluorobenzene (S)	%						98	95	70-130				
Dibromofluoromethane (S)	%						117	106	70-130				
Toluene-d8 (S)	%						99	100	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317958

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions, Dissolved

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005

METHOD BLANK: 1848328

Matrix: Water

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/16/19 20:41	

LABORATORY CONTROL SAMPLE: 1848329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.6	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1848330 1848331

Parameter	Units	40185266011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	6.7J	200	200	221	225	107	109	90-110	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1848332 1848333

Parameter	Units	40185331003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	10.1	20	20	32.1	32.4	110	112	90-110	1	15 M0	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 318357 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
 Associated Lab Samples: 40185425007, 40185425008

METHOD BLANK: 1850661 Matrix: Water

Associated Lab Samples: 40185425007, 40185425008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	04/17/19 17:05	

LABORATORY CONTROL SAMPLE: 1850662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1850663 1850664

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40185425006	Result	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Chloride	mg/L	9.7	20	20	31.9	31.8	111	111	90-110	0	15	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1850665 1850666

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40185538011	Result	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Chloride	mg/L	49.5	100	100	159	159	110	109	90-110	0	15		

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

QC Batch: 320210 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
Associated Lab Samples: 40186571004, 40186637001

METHOD BLANK: 1860348 Matrix: Water
Associated Lab Samples: 40186571004, 40186637001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	05/07/19 11:34	

LABORATORY CONTROL SAMPLE: 1860349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860350 1860351

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Result						
Chloride	mg/L	40186462008 7.5	20	20	29.9	30.0	112	112	90-110	0	15 M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860352 1860353

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Result						
Chloride	mg/L	40186740004 1.2J	20	20	23.6	23.7	112	113	90-110	0	15 M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317793

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005

METHOD BLANK: 1847512

Matrix: Water

Associated Lab Samples: 40185322001, 40185322002, 40185322003, 40185322004, 40185322005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	04/10/19 10:15	

LABORATORY CONTROL SAMPLE: 1847513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	93.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847514 1847515

Parameter	Units	1847514		1847515		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	362	200	200	549	559	93	98	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847516 1847517

Parameter	Units	1847516		1847517		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	347	200	200	539	539	96	96	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch:	317794	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity, Dissolved
Associated Lab Samples:	40185425007		

METHOD BLANK: 1847519 Matrix: Water
Associated Lab Samples: 40185425007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	04/10/19 10:35	

LABORATORY CONTROL SAMPLE: 1847520

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: 1847521 1847522

Parameter	Units	40185384007		1847521		1847522		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	291	200	200	200	481	477	95	93	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1847523 1847524

Parameter	Units	40185425007		1847523		1847524		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	210	200	200	200	393	386	92	88	90-110	2	20 M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch: 317917

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity, Dissolved

Associated Lab Samples: 40185425008

METHOD BLANK: 1848112

Matrix: Water

Associated Lab Samples: 40185425008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	04/10/19 11:48	

LABORATORY CONTROL SAMPLE: 1848113

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: 1848114 1848115

Parameter	Units	1848114		1848115		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40185426003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	848	500	500	1250	1340	81	98	90-110	7	20	M0

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

QC Batch:	320097	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity, Dissolved
Associated Lab Samples:	40186637001		

METHOD BLANK: 1859730 Matrix: Water
Associated Lab Samples: 40186637001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	8.1J	23.5	05/02/19 10:06	

LABORATORY CONTROL SAMPLE: 1859731

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: 1859732 1859733

Parameter	Units	40186736002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	367	500	500	859	869	98	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859734 1859735

Parameter	Units	40186637001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	317	200	200	507	502	95	93	90-110	1	20	

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QUALITY CONTROL DATA

Project: LGRL INVESTIGATION WELLS APRIL
Pace Project No.: 40185322

QC Batch: 320373 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
Associated Lab Samples: 40186571004

METHOD BLANK: 1861251 Matrix: Water
Associated Lab Samples: 40186571004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	05/06/19 10:01	

LABORATORY CONTROL SAMPLE: 1861252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	105	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861253 1861254

Parameter	Units	40186644003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	757	500	500	1250	1250	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861255 1861256

Parameter	Units	40186644013 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	853	1000	1000	1860	1880	100	103	90-110	1	20	

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QUALIFIERS

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185322001	P-401D	EPA 6010	317712		
40185322002	P-402E	EPA 6010	317712		
40185322003	P-424D	EPA 6010	317712		
40185322004	P-424SS	EPA 6010	317712		
40185322005	MW-1B	EPA 6010	317712		
40185425007	P-422B	EPA 6010	317712		
40185425008	P-426D	EPA 6010	317712		
40186571004	P-423D	EPA 6010	319953		
40186637001	P-429SS	EPA 6010	320202		
40185322001	P-401D	EPA 8260	317545		
40185322002	P-402E	EPA 8260	317545		
40185322003	P-424D	EPA 8260	317545		
40185322004	P-424SS	EPA 8260	317545		
40185322005	MW-1B	EPA 8260	317545		
40185322006	TRIP BLANK	EPA 8260	317545		
40185425007	P-422B	EPA 8260	317629		
40185425008	P-426D	EPA 8260	317629		
40186571004	P-423D	EPA 8260	319733		
40186637001	P-429SS	EPA 8260	319736		
40186637002	TRIP BLANK	EPA 8260	319736		
40185322001	P-401D				
40185322002	P-402E				
40185322003	P-424D				
40185322004	P-424SS				
40185322005	MW-1B				
40185425007	P-422B				
40185425008	P-426D				
40186571004	P-423D				
40186637001	P-429SS				
40185322011	P-401D				
40185322012	P-402E				
40185322013	P-422B				
40185322014	P-423D				
40185322015	P-424D				
40185322016	P-424SS				
40185322017	P-426D				
40185322018	P-429SS				
40185322019	MW-1B				
40185322001	P-401D	EPA 300.0	317958		
40185322002	P-402E	EPA 300.0	317958		
40185322003	P-424D	EPA 300.0	317958		
40185322004	P-424SS	EPA 300.0	317958		
40185322005	MW-1B	EPA 300.0	317958		
40185425007	P-422B	EPA 300.0	318357		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LGRL INVESTIGATION WELLS APRIL

Pace Project No.: 40185322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185425008	P-426D	EPA 300.0	318357		
40186571004	P-423D	EPA 300.0	320210		
40186637001	P-429SS	EPA 300.0	320210		
40185322001	P-401D	EPA 310.2	317793		
40185322002	P-402E	EPA 310.2	317793		
40185322003	P-424D	EPA 310.2	317793		
40185322004	P-424SS	EPA 310.2	317793		
40185322005	MW-1B	EPA 310.2	317793		
40185425007	P-422B	EPA 310.2	317794		
40185425008	P-426D	EPA 310.2	317917		
40186571004	P-423D	EPA 310.2	320373		
40186637001	P-429SS	EPA 310.2	320097		

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.

REGULATORY AGENCY

Section A
 Required Client Information:
 ADS Glacier Ridge

Section B
 Required Project Information:
 Report To: Karl Radbideau

Section C
 Invoice Information:
 Attention: Karl Radbideau

N7296 Hwy V
 Horizon, WI 53032
 Copy To: Frank Perugini - ESC, ESC Staff,
 Sherren Clark - SCS Eng
 Company Name: ADS Glacier Ridge
 Address: N7296 Hwy V, Horizon, WI 53032

Horizon, WI 53032
 Email To: Karl Radbideau - ADS
 Purchase Order No.: na
 Address: N7296 Hwy V, Horizon, WI 53032

Phone: na
 Fax: na
 Project Name: LGRL SW APR
 Pace Project Manager: Cindy Varga
 Pace Quote Reference: na

Requested Due Date/TAT:
 Project Number: na
 Pace Profile #: 4172 line 29

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

ITEM #	Section D SAMPLE ID	Matrix	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives			Requested	Filtered (Y/N)	Regulatory Agency	Regulatory Agency	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
				DATE	TIME			Nitric	HCL	Unpreserved								
1	P-4010	DRINKING WATER	SW6	4/14	1215	88	5	1	3	1	X	NPDES	X	20	Y/N	Y/N	Y/N	
2	P-402E	WASTE WATER	SW6	4/14	1215	108	5	1	3	1	X	GA	IL	20	Y/N	Y/N	Y/N	
3	P-404D	WASTE WATER	SW6	4/14	1300	110	5	1	3	1	X	OH	SC	20	Y/N	Y/N	Y/N	
4	P-404SS	WASTE WATER	SW6	4/14	1446		5	1	3	1	X	MI	NC	20	Y/N	Y/N	Y/N	
5	MW-1B	WASTE WATER	SW6	4/14	1185	125	5	1	3	1	X	OTHER	OTHER	20	Y/N	Y/N	Y/N	
6	Trip Blank	WASTE WATER	SW6	4/14	1185	125	5	1	3	1	X	OTHER	OTHER	20	Y/N	Y/N	Y/N	
7																		
8																		
9																		
10																		
11																		
12																		

Additional Comments:

VOCs - MW-1RR, MW-1AR,A-3A,W-3AR, MW-210, MW-210A,
 MW-210B, DUP02, W-163, W-163A,MW-214,MW-214A
 MW-204A, MW-8R

Shared wells - MW-1RR,MW-1AR,A-3A,W-163, W-163A

MW-8R,MW-204A

① Lab added to COC
 4-5-14/14

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	4/14	1205	<i>[Signature]</i>	4/14	0905	Y/N
<i>[Signature]</i>	4/14	0905	<i>[Signature]</i>	4/14	0905	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *[Signature]*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: 4/14/14



1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.: F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: ADS Glacier Ridge

WO#: 40185322



Courier: CS Logistics Fed Ex Speedee UPS Waltco Client Pace Other:

Tracking #: 2020560

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

Cooler Temperature Uncorr: RT /Corr:

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

Person examining contents: Date: 4-5-19 Initials: JK

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

Table with 13 rows of inspection items and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, Containers Intact, etc. with handwritten notes and dates.

Client Notification/ Resolution: Person Contacted: Date/Time: Comments/ Resolution:

Project Manager Review: Cw Date: 4/5/19

40185425

JK

Page: 1 of 1

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

ADS Glacier Ridge	Report To: Kari Rabbideau	Attention: Kari Rabbideau
N17296 Hwy V	Copy To: Frank Perugini - ESC, ESC Staff, Sherrin Clark - SCS Eng	Company Name: ADS Glacier Ridge
Horicon, WI 53032		Address: N17296 Hwy V, Horicon, WI 53032
Email To: Kari Rabbideau - ADS	Purchase Order No.: na	Pace Quote Reference: na
Phone: na	Fax: na	Pace Project Manager: Cindy Varga
Requested Due Date/ATI:	Project Name: LGRL GW APR	Pace Profile #: 4172 line 29
	Project Number: na	

REGULATORY AGENCY	
NPDES	X GROUND WATER DRINKING WATER
UST	RCRA OTHER
SITE LOCATION	GA IL IN MI NC OH SC X WI OTHER
Filtered (Y/N)	N Y Y
Requested	
Ant	
8260 NR 507 VOCs	
dis chloride, alkalinity	
dis 6020 - hard, as	
Residual Chlorine (Y/N)	
Pace Project Number Lab I.D.	

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Samples IDs MUST BE UNIQUE	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			Nitric	HCL	Unpreserved						
1	W-3R	GW6	G	4/5	1745	3.2	5	1	1	1	X	XX		Y/N	Y/N	001
2	W-3AR	GW6	G	4/10	4:49		5	1	1	1	X	XX		Y/N	Y/N	002
3	MW-7R	GW6	G	2/5	4:8		2	1	1	1	X	XX		Y/N	Y/N	003
4	DUP-01	GW6	G			4:8	2	1	1	1	X	XX		Y/N	Y/N	004
5	MW-201	GW6	G											Y/N	Y/N	005
6	MW-201A	GW6	G											Y/N	Y/N	006
7	MW-201B	GW6	G											Y/N	Y/N	007
8	W-163	GW6	G	4/5	1020	8.5	5	1	1	1	X	XX		Y/N	Y/N	008
9	W-163A	GW6	G	4/5	1030	8.8	5	1	1	1	X	XX		Y/N	Y/N	009
10	P-422B	GW6	G	4/5	135	10.1	5	1	1	1	X	XX		Y/N	Y/N	010
11	P-426D	GW6	G	4/5	135	13.1	5	1	1	1	X	XX		Y/N	Y/N	011
12	DUP-02	GW6	G	4/5	10.1		5	1	1	1	X	XX		Y/N	Y/N	012

Additional Comments:

VOCs - MW-1RR, MW-1AR, A-3A, W-3AR, MW-210, MW-210A, MW-210B, DUP02, W-163, W-163A, MW-214, MW-214A MW-204A, MW-8R

Shared wells - MW-1RR, MW-1AR, A-3A, W-163, W-163A MW-8R, MW-204A

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Kari Rabbideau/ESC	4/5/19	1700	P. Smith/ESC	4/16/19	0900	Y/N
Walters	4/16/19	0900		4/16/19	0900	Y/N

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Liz Carlson
SIGNATURE of SAMPLER:	<i>Liz Carlson</i>
DATE Signed	4/15/19

Sample Condition Upon Receipt Form (SCUR)

Project #:
WO#: 40185425

40185425

Client Name: ADS
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: 2021538-1

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

Cooler Temperature Uncorr: RDI /Corr: _____

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

Person examining contents:
Date: 4/6/19
Initials: [Signature]

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	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	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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	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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>065 Soluble in F time/date on leg: 512, 4/6/19 PZ</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Project Manager Review: [Signature] Date: 4/8/19



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

ADS Glacier Ridge
N7296 Hwy V
Horicon, WI 53032
Email To: Kari Rabideau - ADS
Phone: na
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Kari Rabideau
Copy To: Frank Perugini - ESC, ESC Staff, Sherrin Clark - SCS Eng
Purchase Order No.: na
Project Name: LGR, GW, ABP
Project Number: na
Invoice Information:
Attention: Kari Rabideau
Company Name: ADS Glacier Ridge
Address: N7296 Hwy V, Horicon, WI 53032
Pace Quote Reference: na
Pace Project Manager: Cindy Varga
Pace Profile #: 4172_line 29

Section C
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 Analytes:
8260 NR 507 VOCs
diss chloride, alkalinity
diss-6020-lead, as
diss-6010-mercury, as
diss-6030-copper
Residual Chlorine (Y/N)

Pace Project Number Lab ID: 001 002

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MILK BRANDY WINE WASTE WATER PRODUCT SOIL/SOLID WIRE AIR OTHER TISSUE	CODE DW WW P SL Q WP AN OT	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives		
						COMPOSITE START DATE	COMPOSITE END/GRAB DATE			Nitric	HCL	Unpreserved
1	P-42935			601G	G	4/26/19	14:00	5	1	3	1	
2	TRIP BLANK											
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Additional Comments:

VOCs - MW-1RR, MW-1AR, A-3A, W-3AR, MW-210, MW-210A,
MW-210B, DUP02, W-163, W-163A, MW-214, MW-214A
MW-204A, MW-8R

Shared wells - MW-1RR, MW-1AR, A-3A, W-163, W-163A
MW-8R, MW-204A

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
WALTERO	4/26/19	14:00	WALTERO	4/26/19	14:00	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
WALTERO	4/26/19	14:00	WALTERO	4/26/19	14:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Ferment

SIGNATURE OF SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 4/26/19



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADS Glacier ridge

Project #: **WO#: 40186637**

40186637

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

Tracking #: 20410605-1

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

Cooler Temperature Uncorr: 20.1 /Corr: _____

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

Person examining contents:
Date: 4/27/2019
Initials: JU

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	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	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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	10.	
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	<u>4/27/2019 JU</u>
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	<u>labels have been turned black and are hard to read 4/27/2019</u>
-Includes date/time/ID/Analysis Matrix: <u>w</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>416</u>			

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

Project Manager Review: [Signature]

Date: 4/29/19

Sample Preservation Receipt Form

Client Name: ADB Glacier

Project # 40180571

All containers needing preservation have been checked and noted below: Yes No N/A
 Lab Lot# of pH paper: DU83581 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: IV Date/Time:

Page Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	AG1U											2.5 / 5 / 10
002	AG1H											2.5 / 5 / 10
003	AG4S											2.5 / 5 / 10
004	AG4U											2.5 / 5 / 10
005	AG5U											2.5 / 5 / 10
006	AG2S											2.5 / 5 / 10
007	BG3U											2.5 / 5 / 10
008	BP1U											2.5 / 5 / 10
009	BP2N											2.5 / 5 / 10
010	BP2Z											2.5 / 5 / 10
011	BP3U											2.5 / 5 / 10
012	BP3C											2.5 / 5 / 10
013	BP3N											2.5 / 5 / 10
014	BP3S											2.5 / 5 / 10
015	DG9A											2.5 / 5 / 10
016	DG9T											2.5 / 5 / 10
017	VG9U											2.5 / 5 / 10
018	VG9H											2.5 / 5 / 10
019	VG9M											2.5 / 5 / 10
020	VG9D											2.5 / 5 / 10

*32 pint
2 0412614*

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRQ, Phenolics, Other: _____
 Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 ml amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 ml plastic HNO3	DG9T	40 ml amber Na Thio	WG9U	4 oz clear jar unpres
AG4S	125 ml amber glass H2SO4	BP2Z	500 ml plastic NaOH, Znact	VG9U	40 ml clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 ml amber glass unpres	BP3U	250 ml plastic unpres	VG9H	40 ml clear vial HCL		
AG5U	100 ml amber glass unpres	BP3C	250 ml plastic NaOH	VG9M	40 ml clear vial MeOH	SP5T	120 ml plastic Na Thiosulfate
AG2S	500 ml amber glass H2SO4	BP3N	250 ml plastic HNO3		40 ml clear vial DI	ZPLC	ziploc bag
BG3U	250 ml clear glass unpres	BP3S	250 ml plastic H2SO4			GN:	



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: ADS Glacier Ridge

WO#: **40186571**

Courier: CS Logistics Fed Ex Speedee UPS Waltco

Client Pace Other: _____

Tracking #: 2039841-1



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

Cooler Temperature Uncorr: RDI /Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 4/26/2019

Initials: JN

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	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	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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 <u>4/26/19</u>	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
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>416</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CO

Date: 4/20 4/26/19

CO
4/24/19

1523

Page 66 of 66

Page 2 of 2