



**2021 CCR ANNUAL GROUNDWATER
MONITORING AND CORRECTIVE ACTION
REPORT ADDENDUM NO. 1**
MULTI-UNIT ASH POND SYSTEM
HARDING STREET GENERATING STATION

PREPARED FOR:

**Mr. David Heger
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September 22, 2023



September 22, 2023

Atlas Project No. 170LF01501

Mr. David M. Heger
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One Monument Circle, Suite 701A
Indianapolis, Indiana 46204-2901

**Re: 2021 CCR Annual Groundwater Monitoring and
Corrective Action Report Addendum No. 1
Indianapolis Power & Light Company d/b/a AES Indiana (AESI)
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01501**

Dear Mr. Heger:

The Multi-Unit Ash Pond System at the Harding Street Generating Station (HSGS) is subject to the groundwater monitoring and corrective action requirements described under 40 CFR § 257.90 through § 257.98 (Rule). An Annual Groundwater Monitoring and Corrective Action Report documenting the activities completed in 2021 for the Ash Pond System was completed and placed in the facilities operating record on January 31, 2022, as required by the Rule. The Annual Groundwater Monitoring and Corrective Action Report (annual groundwater report) contained the specific information listed in § 257.90(e).

This report addendum has been prepared to supplement the operating record in recognition of comments issued by the United States Environmental Protection Agency (U.S. EPA) on January 11, 2022 to various utilities regarding their respective Part A extension applications. Those comments and U.S. EPA clarifications were understood to be U.S. EPA's expectations regarding the contents of a facility's annual groundwater reporting. In addition to the information listed in § 257.90(e), the US EPA indicated in their comments that annual reports should contain:

- Water level gauging for each sampling event along with a determination of groundwater flow direction(s) and rate(s);
- Laboratory analytical reports to verify that groundwater sampling and analysis requirements outlined in § 257.93 are being met; and
- Statistical analyses, including detailed discussion of the statistical analyses (e.g., statistical method applied, confidence levels, normality test results).

While this information is not specifically referred to in the in 257.90(e) of the Rule for inclusion in the annual reports, it has been routinely collected and maintained in AESI files, and is being provided in the attachments to this addendum as follows:

Attachment A – Groundwater Flow Direction and Rate

- Includes a table summarizing groundwater elevation measurements, as well as potentiometric surface maps for each sampling event with arrows to indicate the interpreted direction of groundwater flow and the groundwater flow rates.

Attachment B – Laboratory Analytical Reports

- Includes laboratory data packages with supporting information, such as, case narrative, sample and method summary, analytical results, quality control, and chain-of-custody documentation.

Attachment C – Statistical Analyses

- Includes tables summarizing the statistical outputs (e.g., frequency of detection, maximum detection, variance, standard deviation, coefficient of variance, outlier tests, trends, upper and lower confidence limits, and comparison against Groundwater Protection Standards), and supporting backup.

A discussion of the statistical analyses is provided below.

1. STATISTICAL ANALYSES

The statistical evaluation procedures created for the Harding Street Generating Station (HSGS) define the statistical tests to be used for this site's CCR groundwater detection monitoring system. The aforementioned evaluation methods specify statistical tests for the detection monitoring program (Appendix III parameters) and assessment monitoring program (Appendix IV parameters) described in 40 CFR 257. These evaluation methods were created to comply with the requirements of § 257.93(f).

This plan is based on the use of the commercial software DUMPStat¹ (Version 3.0). The DUMPStat program uses statistical tests, procedures, and testing sequences described in *Statistical Methods for Groundwater Monitoring*² (Gibbons et. al., 2009). The statistical methods for the HSGS CCR monitoring system are designed to be consistent with ASTM International Standard Guide for Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs *at Waste Disposal Facilities* (D6312-17) along with federal and state guidance, and are also consistent with Indiana's regulations addressing statistical evaluation of groundwater at solid waste landfills.

The CCR ash pond groundwater monitoring system at the HSGS consists of twenty-seven (27) monitoring wells: MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, MW-5S, MW-6S, MW-7S, MW-7D, MW-8S, MW-9S, MW-9I, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12S, MW-12D, MW-13S, MW-13D, MW-14D, MW-15S, MW-15I, and MW-15D. Monitoring wells MW-15S, MW-15I, and MW-15D represent upgradient/background wells, while the remaining

¹ DUMPStat Version 3.0 was written by Robert D. Gibbons and is distributed and supported by Discerning Systems Inc.

² Gibbons, R.D., Bhaumik D. K., Aryal S., 2009, *Statistical Methods for Groundwater Monitoring*, Second Edition, John Wiley & Sons, Inc. New York, 374 pages.



wells represent waste boundary (downgradient) wells. The wells were installed in accordance with the requirements of Federal CCR Rule § 257.91 between September 25, 2015 and August 17, 2018.

The original upgradient well set consisted of monitoring wells MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, and MW-8S. The groundwater monitoring system was re-certified in 2019 in accordance with the requirements of Federal CCR Rule § 257.91 to account for the utilization of MW-15S, MW-15I, and MW-15D as the new upgradient/background monitoring wells for the CCR well network, replacing the original upgradient/background wells. For evaluation purposes, the unconsolidated aquifer materials are split into a shallow zone and a deep zone. Currently, data from MW-15I is used to provide background for the shallow aquifer zone, while data from MW-15D is used to provide background data for the deeper aquifer zone. Data from MW-15S, while collected, is currently not incorporated into the background database for statistical purposes. MW-15S has been interpreted as monitoring a shallower, hydraulically separated and/or perched zone relative to the aquifer zone where the downgradient shallow compliance wells are typically screened, while MW-15I is interpreted to be screened at a more representative position with respect to the shallow compliance wells. As the site conceptual model become more refined, a decision may be made to incorporate the MW-15S data into the shallow zone statistical background database, as appropriate.

Statistical levels defined in this evaluation plan depend, in part, on the values defined for certain settings in DUMPStat. The Plan is based on making interwell comparisons for all wells and all parameters. The background database contains results from September 2018 through the respective November 2020 and May 2021 semi-annual events for the upgradient monitoring wells, and from April 2016 through the respective November 2020 and May 2021 semi-annual events for the downgradient wells. The minimum background sample size was set to eight (8). Under this plan, if a detection monitoring result in a compliance well exceeds a statistical limit, a statistically significant increase, or SSI, will be declared.

Semi-annual assessment monitoring sampling events were conducted in 2021 as required by § 257.95(b) and § 257.95(d)(1). Pursuant to 40 CFR 257.95(b), all Appendix IV constituents were sampled in 2021. Pursuant to 40 CFR 257.95(d)(1), semi-annual sampling of all Appendix III parameters and Appendix IV constituents detected in response to 40 CFR 257.95(b) was conducted in 2021. Sampling events were performed consistent with 40 CFR 257.93(e). Subsequent Statistically Significant Level (SSL) evaluation of the November 2020 and May 2021 data were performed within 90 days of completing the sampling and analysis pursuant to § 257.93(h)(2).

1.1 Background Data

Pursuant to 257.94(b), the monitoring well network has been sampled to establish a minimum eight background data sets prior to completion of initial statistical analyses. Groundwater samples were analysed for the Appendix III parameters: boron (total), calcium (total), chloride, fluoride, pH, sulfate, and total dissolved solids (TDS); and for the Appendix IV parameters: antimony (total), arsenic (total), barium (total), beryllium (total), cadmium (total), chromium (total), cobalt (total),



fluoride, lead (total), lithium (total), mercury (total), molybdenum (total), selenium (total), thallium (total), and total radium.

Available historical data were used to calculate the background database for the system.

Included in **Attachment C** are summaries of the historical data for the statistically evaluated parameters for the HSGS. Historical data from groundwater sampling events were imported into the DUMPStat database. **Attachment C, Table 1** contains groundwater quality data collected from the background monitoring wells MW-15S, MW-15I, and MW-15D. Prediction limits based on groundwater quality reported from the background monitoring wells were calculated for each parameter and are presented in Table 5 of this attachment.

1.2 Defined Statistical Tests - Interwell Statistical Comparisons

Appendix IV assessment monitoring parameters are statistically evaluated using the appropriate upgradient versus downgradient statistical test also known as an interwell statistical comparison. To assign the appropriate upgradient versus downgradient statistical test, DUMPStat first checks the parameter concentration to determine the detection frequencies (**Attachment C, Table 3**). It then applies the Shapiro-Wilk Test of Normality for Multiple Groups to determine if the data for each parameter are normally or lognormally distributed, or if a nonparametric prediction limit must be used (**Attachment C, Table 4**). The statistics are then calculated and the prediction limits established (**Attachment C, Table 5**). DUMPStat screens the background data using Dixon's test to remove the outliers. The results of the Dixon's test are listed in **Attachment C, Table 6**. The parameters that exceed statistical limits in the downgradient monitoring wells, along with the associated historical data for those parameters, are listed in **Attachment C, Table 7**. A statistical power curve is also included.

Among the background measurements, if the constituent fits normal/lognormal distribution, the parametric prediction limit is calculated; if the constituent does not fit normal/lognormal distribution, the non-parametric prediction limit is calculated.

1.3 False Positive Rates and Statistical Power

Included in this attachment is the power curve calculated by DUMPStat for both the shallow and deep monitoring zones at the site for this interwell monitoring plan. As indicated in the US EPA Unified Guidance³ document, as a general guide, when background is approximately normal in distribution, a statistical test should be able to detect a 3-standard deviation increase at least 55-60% of the time, and a 4-standard deviation increase with at least 80-85% probability. The calculated statistical power curve indicates general compliance with this guidance; the facility's statistical program has the annual power to detect 3- and 4-standard deviation increases above the true background mean. It is expected that the power curves will also improve as additional background data are added over time.

³ Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance, March 2009, EPA 530-R-09-007.

1.4 Interwell Statistics Comparisons

Future groundwater quality results at monitoring wells MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, MW-5S, MW-6S, MW-7S, MW-7D, MW-8S, MW-9S, MW-9I, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12S, MW-12D, MW-13S, MW-13D, MW-14D will be statistically compared to results from Monitoring Wells MW-15S, MW-15I, and MW-15D.

1.5 Background Sample Size

The number of background samples for Appendix IV parameters is listed in the “N” column of **Attachment C, Table 5**. The minimum background sample size is eight.

1.6 Appendix IV Assessment Monitoring – Statistical Procedures to Determine GWPS Exceedances

In accordance with 257.95(a), as SSIs have previously been identified for one or more Appendix III constituents at one or more downgradient wells, an Appendix IV assessment monitoring program has been established. Prediction limits are calculated for each Appendix IV parameter. A groundwater protection standard (GWPS) for each Appendix IV parameter will also be established. The GWPS will be the larger of the background prediction limit, the regulatory standard (maximum contaminant level, MCL), or the USEPA Screening Level⁴ for those Appendix IV constituents (cobalt, lithium, molybdenum) that do not have a defined MCL.

Appendix IV parameters are evaluated by calculating the lower confidence limit (LCL) on the mean of the last four reported concentrations for each Appendix IV parameter in each downgradient (compliance) well to the GWPS. This approach is discussed in technical literature (Gibbons and Coleman, 2001, Equation 19.5, p. 231)⁵ and the US EPA Unified Guidance (2009). The 95% LCL of the mean of the last four measurements for each Appendix IV constituent will be calculated as follows:

$$LCL = \bar{x} - t_s / \sqrt{m}$$

LCL = lower confidence limit for mean;

t = one-tailed 100(1- α) percentage point of Students *t*-distribution on m-1 degrees of freedom;

m = number of sample measurements;

s/\sqrt{m} = standard error of the mean; and

\bar{x} = sample mean of m measurements.

⁴ USEPA Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities; effective August 29, 2018 (page 36444).

⁵ Gibbons, R.D., and Coleman, D.E., 2001. Statistical Methods for Detection and Quantification of Environmental Contamination, John Wiley & Sons, 384 pp.



At each downgradient well, the lower confidence limit will be calculated to the 95% confidence level for each Appendix IV parameter. The 95% LCL will be compared to the associated GWPS (the greater of the background prediction limit, MCL, or USEPA Screening Level as described above). A GWPS exceedance will be identified if the 95% LCL exceeds the GWPS; this corresponds to identification of an SSL. The 95% LCL will be re-calculated following each sampling event using a rolling average of the four most recent sample results.

Appendix III detection monitoring will continue during the completion of the Appendix IV assessment monitoring program.

Respectfully submitted,
Atlas Technical Consultants LLC

A handwritten signature in black ink that reads "Mark E. Breting". The signature is written in a cursive, slightly slanted style.

Mark E. Breting, L.P.G.
Senior Project Geologist

A handwritten signature in blue ink that reads "Robert T. Duncan". The signature is written in a cursive, slightly slanted style.

Robert T. Duncan, L.P.G.
Principal Geologist

Copies: Ms. Pilar Cuadra, AES US Services, LLC
Mr. Nicholas Williams, AES US Services, LLC

Attachment A: Groundwater Flow Direction and Rate

November 2020

Table 1
Gauging Summary
November 2,2020
Harding Street Generating Station
ATC Project No. 170LF00872

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (TOC)		SWE, ft MSL	Notes
Existing CCR Well Network							
MW-1S	11/2/2020	12:24	13.54	675.33		661.79	
MW-1D	11/2/2020	12:25	13.27	675.17		661.90	
MW-2S	11/2/2020	9:42	20.32	684.99		664.67	
MW-2D	11/2/2020	9:41	20.45	685.20		664.75	
MW-3S	11/2/2020	10:01	26.64	688.98		662.34	
MW-3D	11/2/2020	10:02	26.66	688.82		662.16	
MW-4S	11/2/2020	10:25	33.60	689.29		655.69	
MW-5S	11/2/2020	10:53	32.58	689.43		656.85	
MW-6S	11/2/2020	11:42	35.04	695.67		660.63	
MW-7S	11/2/2020	11:32	40.35	696.76		656.41	
MW-7D	11/2/2020	11:30	39.92	696.29		656.37	
MW-8S	11/2/2020	12:40	16.43	672.78		656.35	
MW-9S	11/2/2020	10:35	36.14	689.02		652.88	
MW-9I	11/2/2020	10:33	36.18	689.11		652.93	
MW-9D	11/2/2020	10:34	36.33	689.27		652.94	
MW-10S	11/2/2020	11:03	28.81	691.10		662.29	
MW-10D	11/2/2020	11:02	29.00	691.28		662.28	
MW-11S	11/2/2020	12:59	34.83	686.17		651.34	
MW-11D	11/2/2020	12:56	31.10	686.17		655.07	
MW-12S	11/2/2020	10:45	36.47	688.82		652.35	
MW-12D	11/2/2020	10:44	36.41	688.73		652.32	
MW-13S	11/2/2020	11:37	37.78	696.08		658.30	
MW-13D	11/2/2020	11:39	38.51	696.78		658.27	
MW-14D	11/2/2020	13:02	42.40	697.88		655.48	
MW-15S	11/2/2020	8:49	19.09	685.46		666.37	
MW-15I	11/2/2020	8:50	18.62	685.59		666.97	
MW-15D	11/2/2020	8:51	18.35	685.20		666.85	
Nature & Extent Wells/Piezometers							
M-4	11/2/2020	11:35	37.62	693.25		655.63	
MW-102S	11/2/2020	11:35	61.01	677.10		616.09	
MW-102D	11/2/2020	11:30	60.59	677.48		616.89	
MW-103S	11/2/2020	11:20	35.61	701.27		665.66	
MW-103I	11/2/2020	11:15	90.00	701.26		611.26	
MW-103D	11/2/2020	11:10	92.93	701.54		608.61	
MW-104S	11/2/2020	11:55	52.39	676.60		624.21	
MW-104D	11/2/2020	11:50	87.24	677.01		589.77	
PZ-100S	11/2/2020	10:55	29.53	681.79		652.26	
PZ-100D	11/2/2020	10:50	46.1	681.84		635.74	
PZ-101S	11/2/2020	10:40	42.48	689.36		646.88	
PZ-101D	11/2/2020	10:35	83.16	689.40		606.24	
Historic Piezometers/Wells							
M-3	11/2/2020	11:37	14.28	693.58		679.30	
M-6	11/2/2020	12:12	10.10	676.52		666.42	
M-7	11/2/2020			686.62		686.62	
P-2	11/2/2020	10:17	11.26	675.73		664.47	
P-3	11/2/2020			685.67		685.67	
P-4	11/2/2020	12:22	18.90	684.53		665.63	
P-5	11/2/2020	12:26	18.00	683.75		665.75	
P-6	11/2/2020	12:36	12.45	677.49		665.04	
PZ-1	11/2/2020	12:23	44.64	714.54		669.90	
PZ-2	11/2/2020	12:29	dry	714.91		#VALUE!	
PZ-3	11/2/2020	13:22	46.82	713.81		666.99	
PZ-4	11/6/2020		53.80	715.04		661.24	Gauged on 11-6-20
PZ-5	11/2/2020	12:05	46.50	714.52		668.02	
PZ-6	11/2/2020	9:16	21.00	688.21		667.21	
PZ-7	11/2/2020	9:54	17.33	684.73		667.40	
PZ-8	11/2/2020	10:04	dry	683.96		#VALUE!	
PZ-9	11/2/2020	10:11	27.95	683.86		655.91	
PZ-10	11/2/2020	10:37	32.92	683.91		650.99	
PZ-11	11/2/2020	11:08	24.65	685.12		660.47	
PZ-12	11/2/2020	11:27	35.48	709.68		674.20	
PZ-13	11/2/2020	11:25	24.04	698.01		673.97	
PZ-14	11/2/2020	12:58	43.55	708.67		665.12	

Flow Rate Calculations - November 2020
AES Indiana Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

HSS SHALLOW ZONE FIGURE 1		HSS		HANSON	
11/2/2020	Flow Rate Line	FR1	FR2	FR3	FR4
$v = Q/n_e A^1 = KI/n_e$					
ΔH (ft)	Potentiometric Surface Hydraulic Head Change	10	15	40	45
ΔL (ft)	Flow Line Length	1900	1820	560	1430
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	308	308	308	308
I ($\Delta H/\Delta L$)		0.0053	0.0082	0.071	0.031
n_e (effective porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35	0.35
v (ft/day)		4.7	7.2	62	27
HSS DEEP ZONE FIGURE 2		HSS		HANSON	
11/2/2020	Flow Rate Line	FR1	FR2	FR3	FR4
$v = Q/n_e A^1 = KI/n_e$					
ΔH (ft)	Potentiometric Surface Hydraulic Head Change	5	5	50	65
ΔL (ft)	Flow Line Length	1760	940	350	1980
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	308	308	308	308
I ($\Delta H/\Delta L$)		0.0028	0.0053	0.14	0.033
n_e (effective porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35	0.35
v (ft/day)		2.5	4.7	120	29

Notes

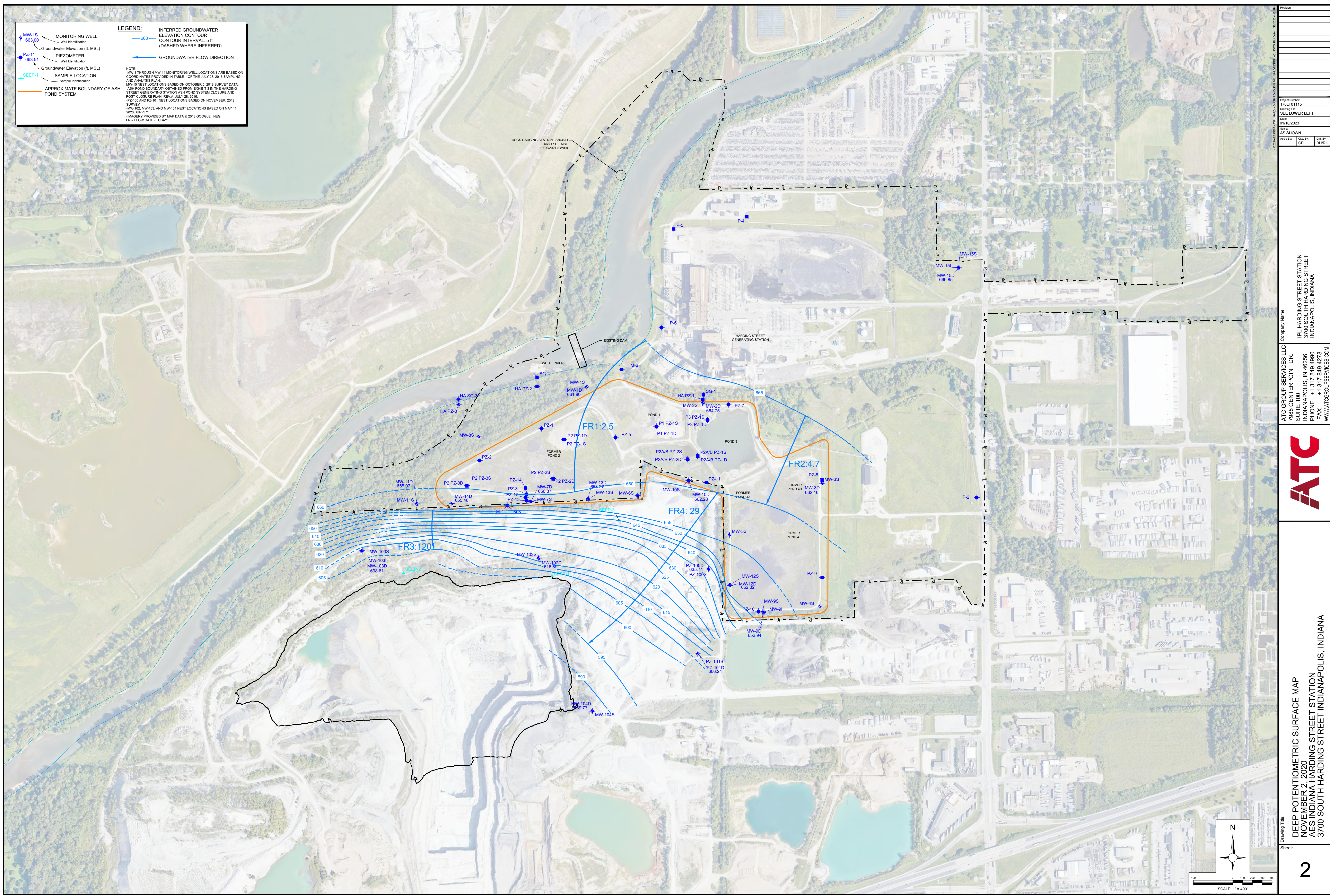
1 - Average linear velocity equation from Fetter, C.W., 1980, Applied Hydrogeology: Merrill Publishing Company, 592 p.

Flow line paths are plotted to be consistent between Nov 2020 and May 2021 events.

LEGEND:

- MW-1S 663.00 MONITORING WELL (Well Identification)
- PZ-11 663.51 PIEZOMETER (Well Identification)
- SEEP-1 SAMPLE LOCATION (Sample Identification)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- INFERRED GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL: 5 FT (DASHED WHERE INFERRED))
- GROUNDWATER FLOW DIRECTION

NOTE:
 MW-1 THROUGH MW-14 MONITORING WELL LOCATIONS ARE BASED ON COORDINATES OBTAINED FROM EXHIBIT 3 IN THE HARDING STREET GENERATING STATION ASH POND BY SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV. A, JULY 28, 2016.
 PZ-100 AND PZ-101 WELL LOCATIONS BASED ON NOVEMBER, 2019 SURVEY.
 MW-102, AND MW-104 WELL LOCATIONS BASED ON MAY 11, 2020 SURVEY.
 IMAGERY PROVIDED BY MAP DATA © 2018 GOOGLE, INEGI
 FR = FLOW RATE (FT/DAY)



Project Number:	170FD1115
Drawing Title:	SEE LOWER LEFT
Date:	01/16/2023
Scale:	AS SHOWN
Author:	CP
Check By:	BHRH

Company Name:
 ATC GROUP SERVICES, LLC
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Drawing Title:
 DEEP POTENTIOMETRIC SURFACE MAP
 NOVEMBER 2, 2020
 AES INDIANA HARDING STREET STATION
 3700 SOUTH HARDING STREET INDIANAPOLIS, INDIANA

Sheet:
 2

May 2021

Table 1
Gauging Summary
May 3, 2021
Harding Street Generating Station
ATC Project No. 170LF01115

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (TOC)		SWE, ft MSL	Notes
Existing CCR Well Network							
MW-1S	5/3/2021	10:47	13.09	675.33		662.24	
MW-1D	5/3/2021	10:45	12.88	675.17		662.29	
MW-2S	5/3/2021	8:59	20.00	684.99		664.99	
MW-2D	5/3/2021	9:01	20.21	685.20		664.99	
MW-3S	5/3/2021	9:14	26.87	688.98		662.11	
MW-3D	5/3/2021	9:16	27.28	688.82		661.54	
MW-4S	5/3/2021	9:31	dry to pump (33.54)	689.29		#VALUE!	
MW-5S	5/3/2021	8:30	33.35	689.43		656.08	
MW-6S	5/3/2021	10:16	34.57	695.67		661.10	
MW-7S	5/3/2021	9:52	39.51	696.76		657.25	
MW-7D	5/3/2021	9:55	39.11	696.29		657.18	
MW-8S	5/3/2021	10:36	15.55	672.78		657.23	
MW-9S	5/3/2021	9:35	34.29	689.02		654.73	
MW-9I	5/3/2021	9:36	37.87	689.11		651.24	
MW-9D	5/3/2021	9:38	38.08	689.27		651.19	
MW-10S	5/3/2021	9:50	28.57	691.10		662.53	
MW-10D	5/3/2021	9:51	28.76	691.28		662.52	
MW-11S	5/3/2021	10:51	31.72	686.17		654.45	
MW-11D	5/3/2021	10:50	29.94	686.17		656.23	
MW-12S	5/3/2021	8:40	dry (35.5)	688.82		#VALUE!	
MW-12D	5/3/2021	8:43	38.22	688.73		650.51	
MW-13S	5/3/2021	10:25	37.19	696.08		658.89	
MW-13D	5/3/2021	10:21	37.92	696.78		658.86	
MW-14D	5/3/2021	10:56	41.35	697.88		656.53	
MW-15S	5/3/2021	8:31	18.23	685.46		667.23	
MW-15I	5/3/2021	8:25	17.87	685.59		667.72	
MW-15D	5/3/2021	8:20	17.60	685.20		667.60	
Nature & Extent Wells/Piezometers							
M-4	5/6/2021	10:12	36.76	693.25		656.49	Inadvertently not gauged 5/3/21
MW-102S	5/3/2021	9:25	55.99	677.10		621.11	
MW-102D	5/3/2021	9:27	60.29	677.48		617.19	
MW-103S	5/3/2021	9:13	36.10	701.27		665.17	
MW-103I	5/3/2021	9:15	89.31	701.26		611.95	
MW-103D	5/3/2021	9:17	92.29	701.54		609.25	
MW-104S	5/3/2021	9:32	dry (54.60)	676.60		#VALUE!	
MW-104D	5/3/2021	9:34	88.80	677.01		588.21	
PZ-100S	5/3/2021	9:03	31.04	681.79		650.75	
PZ-100D	5/3/2021	9:06	47.55	681.84		634.29	
PZ-101S	5/3/2021	8:47	45.69	689.36		643.67	
PZ-101D	5/3/2021	8:49	85.25	689.40		604.15	
Historic Piezometers/Wells							
M-6	5/3/2021	10:53	8.32	676.52		668.20	
P-4	5/3/2021	10:50	18.40	684.53		666.13	
P-5	5/3/2021	10:40	17.58	683.75		666.17	
P-6	Not gauged			677.49		677.49	
PZ-1	5/3/2021	9:15	44.50	714.54		670.04	
PZ-2	5/3/2021	9:27	dry	714.91		#VALUE!	
PZ-3	5/3/2021	9:44	46.38	713.81		667.43	
PZ-4	Not gauged			715.04		715.04	
PZ-5	5/3/2021	9:04	44.10	714.52		670.42	
PZ-6	5/3/2021	10:17	18.52	688.21		669.69	
PZ-7	5/3/2021	9:06	15.27	684.73		669.46	
PZ-8	5/3/2021	9:18	dry (14.72)	683.96		#VALUE!	
PZ-9	5/3/2021	9:26	29.36	683.86		654.50	
PZ-10	5/3/2021	9:42	34.15	683.91		649.76	
PZ-11	5/3/2021	9:55	24.68	685.12		660.44	
PZ-12	5/3/2021	9:46	34.04	709.68		675.64	
PZ-13	5/3/2021	9:49	20.76	698.01		677.25	
PZ-14	5/3/2021	9:40	43.28	708.67		665.39	

Table 1
 Gauging Summary
 May 3, 2021
 Harding Street Generating Station
 ATC Project No. 170LF01115

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (TOC)		SWE, ft MSL	Notes
Ash Pond Piezometers							
P1 PZ-1S	5/3/2021	10:03	13.90	687.30		673.40	
P1 PZ-1D	5/3/2021	10:06	23.47	687.25		663.78	
P2 PZ-1S	5/3/2021	9:14	52.84	717.16		664.32	
P2 PZ-1D	5/3/2021	9:12	56.38	716.33		659.95	
P2 PZ-2S	5/3/2021	10:10	40.94	707.15		666.21	
P2 PZ-2D	5/3/2021	10:08	49.45	706.92		657.47	
P2 PZ-3S	5/3/2021	9:28	54.87	718.21		663.34	
P2 PZ-3D	5/3/2021	9:26	61.45	718.19		656.74	
P2 A/B PZ-1S	5/3/2021	10:08	27.51	691.55		664.04	
P2 A/B PZ-1D	5/3/2021	10:10	27.82	691.19		663.37	
P2 A/B PZ-2S	5/3/2021	10:00	26.08	689.49		663.41	
P2 A/B PZ-2D	5/3/2021	10:01	25.86	689.06		663.20	
P3 PZ-1S	5/3/2021	9:10	10.11	680.52		670.41	
P3 PZ-1D	5/3/2021	9:11	16.73	681.15		664.42	
Drive Point Piezometers							
HA PZ-1	5/3/2021	11:10	5.63	670.80		665.17	
HA PZ-2	5/3/2021	10:26	11.77 (wet at TD)	670.56		#VALUE!	
HA PZ-3	5/3/2021	10:18	12.69	671.08		658.39	
HA PZ-4	5/3/2021	9:50	7.49	663.67		656.18	
HA PZ-5	5/3/2021	9:41	11.73	667.91		656.18	
Well	Date	Time	Water Gauge Level (ft)	Reference Point Elevation (top of gage placard)	Staff Total Height (ft)*	SWE, ft MSL	Notes
HA SG-2	5/3/2021	9:00					Surveyed water elevation at bank = 656.42
HA SG-3	5/3/2021	9:10					Surveyed water elevation at bank = 656.16
HA SG-4	5/3/2021	9:25					Surveyed water elevation at bank = 655.89
HA SG-5	5/3/2021	9:40					Surveyed water elevation at bank = 655.68
USGS 03353611 - White River at Harding Street Generating Station (upstream of lowhead dam)							
	Date	Time	Gage Height Above Datum (ft)	Datum Height		SWE, ft MSL	Notes
River Gage	5/3/2021	10:00	3.61	662.73		666.34	

Flow Rate Calculations - May 2021
 AES Indiana Harding Street Generating Station
 Indianapolis, Indiana
 ATC Project No. 170LF01115

HSS SHALLOW ZONE FIGURE 1		HSS		HANSON	
5/3/2021	Flow Rate Line	FR1	FR2	FR3	FR4
$v = Q/n_e A^1 = KI/n_e$					
ΔH (ft)	Potentiometric Surface Hydraulic Head Change	10	10	35	35
ΔL (ft)	Flow Line Length	2030	1300	550	1330
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	308	308	308	308
I ($\Delta H/\Delta L$)		0.0049	0.0077	0.064	0.026
n_e (effective porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35	0.35
v (ft/day)		4.3	6.8	56	23
HSS DEEP ZONE FIGURE 2		HSS		HANSON	
5/3/2021	Flow Rate Line	FR1	FR2	FR3	FR4
$v = Q/n_e A^1 = KI/n_e$					
ΔH (ft)	Potentiometric Surface Hydraulic Head Change	5	5	45	65
ΔL (ft)	Flow Line Length	1560	970	290	1990
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	308	308	308	308
I ($\Delta H/\Delta L$)		0.0032	0.0052	0.16	0.033
n_e (effective porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35	0.35
v (ft/day)		2.8	4.6	140	29

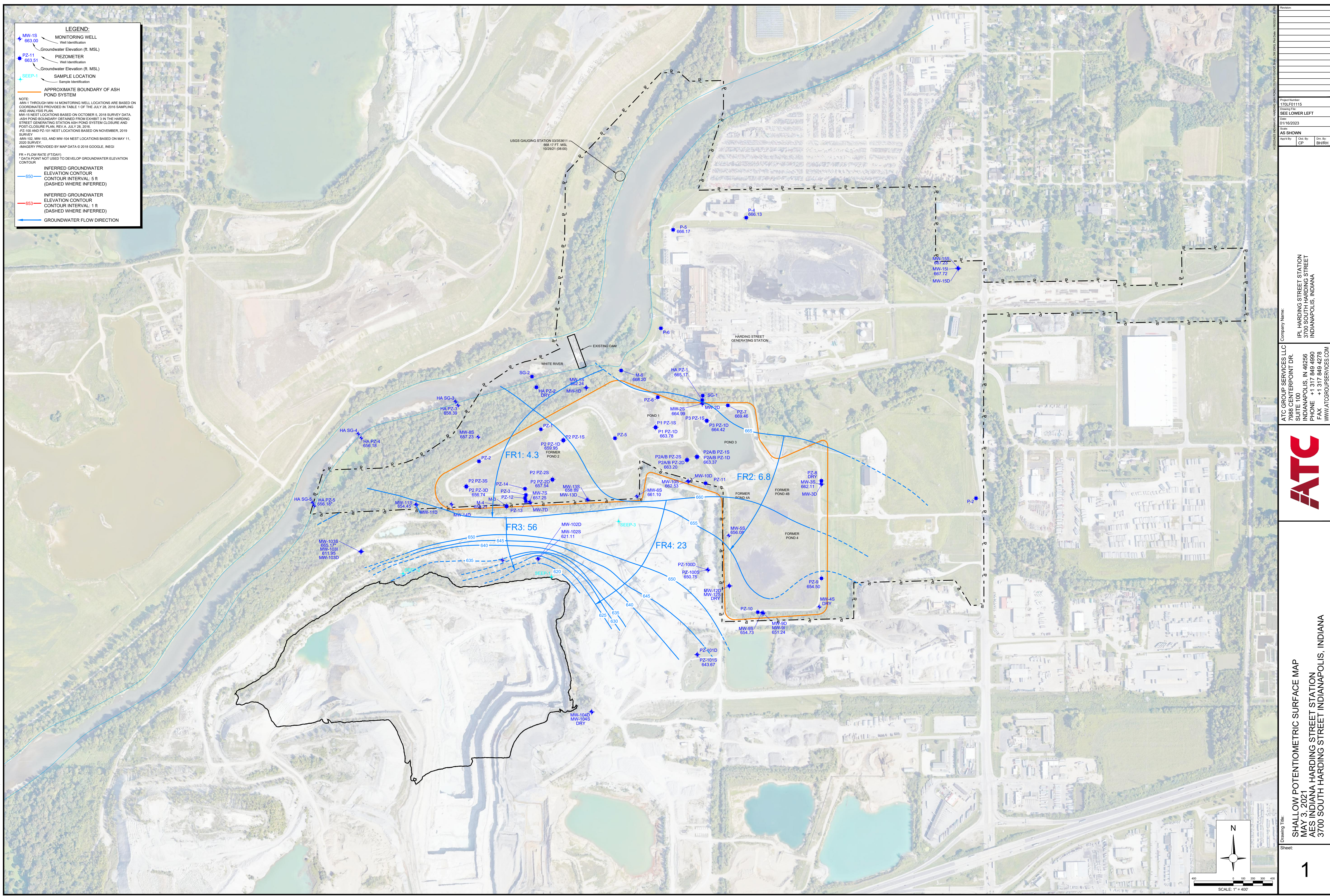
Notes

1 - Average linear velocity equation from Fetter, C.W., 1980, Applied Hydrogeology: Merrill Publishing Company, 592 p.

Flow line paths are plotted to be consistent between Nov 2020 and May 2021 events.

LEGEND:

- MW-1S 663.00 MONITORING WELL (Well Identification)
- PZ-11 663.51 PIEZOMETER (Well Identification)
- SEEP-1 SAMPLE LOCATION (Sample Identification)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- NOTE: MWS 1 THROUGH MW 14 MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE JULY 28, 2016 SAMPLING AND ANALYSIS PLAN. MW 15 NEST LOCATIONS BASED ON OCTOBER 5, 2016 SURVEY DATA. ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE HARDING STREET GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV. A, JULY 28, 2016. PZ-100 AND PZ-101 NEST LOCATIONS BASED ON NOVEMBER, 2019 SURVEY. MW-102, MW-103, AND MW-104 NEST LOCATIONS BASED ON MAY 11, 2020 SURVEY. IMAGERY PROVIDED BY MAP DATA © 2018 GOOGLE, INEGI
- FR - FLOW RATE (FT/DAY) (DATA POINT NOT USED TO DEVELOP GROUNDWATER ELEVATION CONTOUR)
- 650 INFERRED GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL: 5 FT (DASHED WHERE INFERRED))
- 653 INFERRED GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL: 1 FT (DASHED WHERE INFERRED))
- GROUNDWATER FLOW DIRECTION



Project Number:	170LF01115
Drawn by:	SEE LOWER LEFT
Check:	01/16/2023
Date:	AS SHOWN
Scale:	As Shown
Author:	CP
Drawn by:	BHRH

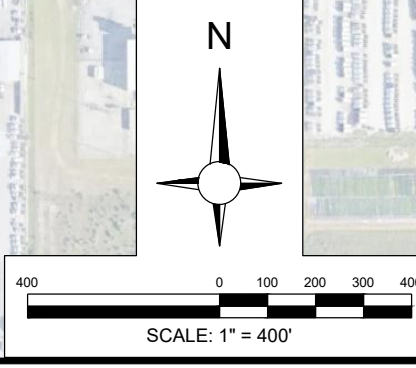
Company Name:
ATC GROUP SERVICES LLC
 7089 CENTERPOINT DR.
 INDIANAPOLIS, IN 46256
 PHONE +1 317 849 4900
 FAX +1 317 849 4278
 WWW.ATCGROUPSERVICES.COM

Client Name:
7089 HARDING STREET STATION
 3700 SOUTH HARDING STREET
 INDIANAPOLIS, INDIANA



Drawing Title:
SHALLOW POTENTIOMETRIC SURFACE MAP
 MAY 3, 2021
 AES INDIANA HARDING STREET STATION
 3700 SOUTH HARDING STREET INDIANAPOLIS, INDIANA

Sheet:
1

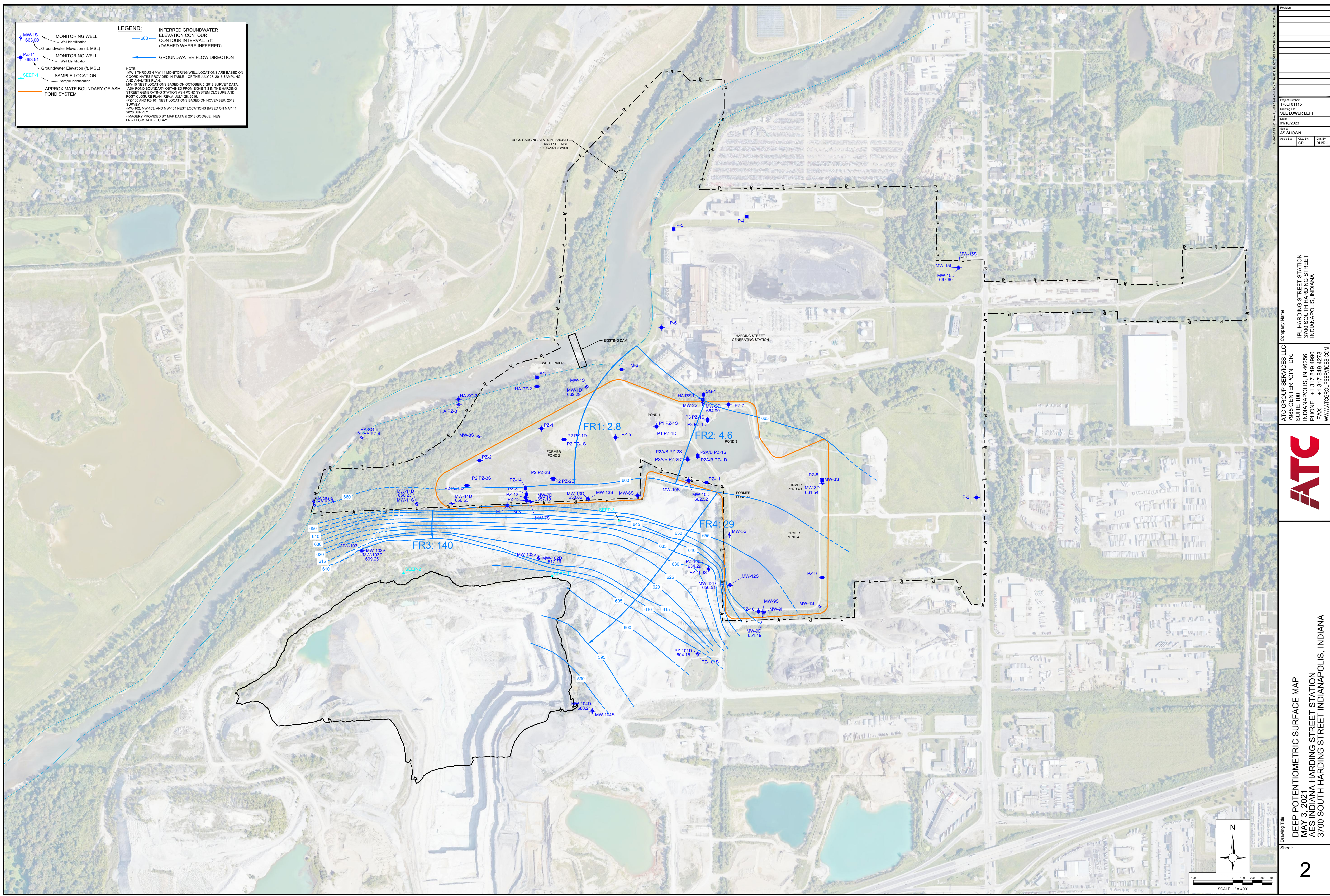


H:\2021\AES INDIANA\7089\7089\170LF01115\170LF01115_POT SURFACE MAP.dwg, Plot Date: 11/02/23 11:11 PM

LEGEND:

- MW-1S 663.00 MONITORING WELL (Well Identification)
- PZ-11 663.51 MONITORING WELL (Well Identification)
- SEEP-1 SAMPLE LOCATION
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- INFERRED GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL: 5 FT (DASHED WHERE INFERRED))
- GROUNDWATER FLOW DIRECTION

NOTE:
 MW-1 THROUGH MW-14 MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE JULY 28, 2016 SAMPLING AND ANALYSIS PLAN.
 MW-15 NEST LOCATIONS BASED ON OCTOBER 5, 2018 SURVEY DATA.
 JASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE HARDING STREET GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV. A, JULY 28, 2016.
 PZ-100 AND PZ-101 NEST LOCATIONS BASED ON NOVEMBER 2019 SURVEY.
 MW-103 AND MW-104 NEST LOCATIONS BASED ON MAY 11, 2020 SURVEY.
 IMAGERY PROVIDED BY MAP DATA © 2018 GOOGLE, INEGI
 FR = FLOW RATE (FT/DAY)



Project Number:	170LF01115
Drawing Title:	SEE LOWER LEFT
Date:	01/16/2023
Scale:	AS SHOWN
Author:	CP
Check By:	BHRH

Company Name:
 ATC GROUP SERVICES, LLC
 7089 CENTERPOINT DR.
 INDIANAPOLIS, IN 46256
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 FAX +1 317 849 4278
 WWW.ATCGROUPSERVICES.COM

Company Name:
 IRI, HARDING STREET STATION
 3700 SOUTH HARDING STREET
 INDIANAPOLIS, INDIANA



Drawing Title:
 DEEP POTENTIOMETRIC SURFACE MAP
 MAY 3, 2021
 AES INDIANA HARDING STREET STATION
 3700 SOUTH HARDING STREET INDIANAPOLIS, INDIANA

Attachment B: Laboratory Certificates of Analyses

November 2020

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 3
Pace Project No.: 50272208

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272208001	P2 PZ-3S	Water	11/03/20 14:55	11/04/20 15:00
50272208002	P2 PZ-3D	Water	11/03/20 13:50	11/04/20 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272208001	P2 PZ-3S	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272208002	P2 PZ-3D	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272208001	P2 PZ-3S					
EPA 9056	Chloride	2960	mg/L	250	11/13/20 13:12	
EPA 9056	Sulfate	3030	mg/L	250	11/13/20 13:12	
EPA 6010	Barium	55.8	ug/L	10.0	11/10/20 13:30	
EPA 6010	Boron	79400	ug/L	100	11/10/20 13:30	
EPA 6010	Calcium	892000	ug/L	10000	11/11/20 11:53	
EPA 6010	Lithium	2140	ug/L	20.0	11/10/20 13:30	
EPA 6010	Molybdenum	470	ug/L	10.0	11/10/20 13:30	
EPA 6010	Lithium, Dissolved	2050	ug/L	20.0	11/10/20 01:07	
EPA 6010	Manganese, Dissolved	267	ug/L	10.0	11/10/20 01:07	
EPA 6010	Molybdenum, Dissolved	480	ug/L	10.0	11/10/20 01:07	
EPA 6020	Antimony	3.4	ug/L	1.0	11/09/20 11:31	
EPA 6020	Arsenic	151	ug/L	1.0	11/09/20 11:31	
EPA 6020	Beryllium	0.73	ug/L	0.20	11/09/20 11:31	
EPA 6020	Cobalt	1.8	ug/L	1.0	11/09/20 11:31	
SM 2540C	Total Dissolved Solids	9230	mg/L	100	11/09/20 15:48	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/06/20 09:40	H3
50272208002	P2 PZ-3D					
EPA 9056	Chloride	1000	mg/L	250	11/13/20 06:06	
EPA 9056	Fluoride	0.13	mg/L	0.10	11/13/20 05:49	
EPA 9056	Sulfate	2720	mg/L	250	11/13/20 06:06	
EPA 6010	Barium	59.6	ug/L	10.0	11/10/20 13:33	
EPA 6010	Boron	48200	ug/L	100	11/10/20 13:33	
EPA 6010	Calcium	514000	ug/L	10000	11/10/20 15:17	
EPA 6010	Lithium	993	ug/L	20.0	11/10/20 13:33	
EPA 6010	Molybdenum	266	ug/L	10.0	11/10/20 13:33	
EPA 6010	Iron, Dissolved	662	ug/L	100	11/10/20 01:09	
EPA 6010	Lithium, Dissolved	935	ug/L	20.0	11/10/20 01:09	
EPA 6010	Manganese, Dissolved	423	ug/L	10.0	11/10/20 01:09	
EPA 6010	Molybdenum, Dissolved	273	ug/L	10.0	11/10/20 01:09	
EPA 6020	Arsenic	125	ug/L	1.0	11/09/20 11:36	
EPA 6020	Cobalt	1.8	ug/L	1.0	11/09/20 11:36	
SM 2540C	Total Dissolved Solids	4620	mg/L	40.0	11/09/20 15:49	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	11/06/20 09:42	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Sample: P2 PZ-3S	Lab ID: 50272208001	Collected: 11/03/20 14:55	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	2960	mg/L	250	1000		11/13/20 13:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/13/20 05:16	16984-48-8	
Sulfate	3030	mg/L	250	1000		11/13/20 13:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	55.8	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:30	7440-39-3	
Boron	79400	ug/L	100	1	11/08/20 13:41	11/10/20 13:30	7440-42-8	
Calcium	892000	ug/L	10000	10	11/08/20 13:41	11/11/20 11:53	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:30	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:30	7439-92-1	
Lithium	2140	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:30	7439-93-2	
Molybdenum	470	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:30	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	ND	ug/L	100	1	11/09/20 13:49	11/10/20 01:07	7439-89-6	
Lithium, Dissolved	2050	ug/L	20.0	1	11/09/20 13:49	11/10/20 01:07	7439-93-2	
Manganese, Dissolved	267	ug/L	10.0	1	11/09/20 13:49	11/10/20 01:07	7439-96-5	
Molybdenum, Dissolved	480	ug/L	10.0	1	11/09/20 13:49	11/10/20 01:07	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.4	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:31	7440-36-0	
Arsenic	151	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:31	7440-38-2	
Beryllium	0.73	ug/L	0.20	1	11/05/20 16:20	11/09/20 11:31	7440-41-7	
Cobalt	1.8	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:31	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:31	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	9230	mg/L	100	1		11/09/20 15:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/06/20 09:40		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Sample: P2 PZ-3D	Lab ID: 50272208002	Collected: 11/03/20 13:50	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	1000	mg/L	250	1000		11/13/20 06:06	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		11/13/20 05:49	16984-48-8	
Sulfate	2720	mg/L	250	1000		11/13/20 06:06	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	59.6	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:33	7440-39-3	
Boron	48200	ug/L	100	1	11/08/20 13:41	11/10/20 13:33	7440-42-8	
Calcium	514000	ug/L	10000	10	11/08/20 13:41	11/10/20 15:17	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:33	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:33	7439-92-1	
Lithium	993	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:33	7439-93-2	
Molybdenum	266	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:33	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	662	ug/L	100	1	11/09/20 13:49	11/10/20 01:09	7439-89-6	
Lithium, Dissolved	935	ug/L	20.0	1	11/09/20 13:49	11/10/20 01:09	7439-93-2	
Manganese, Dissolved	423	ug/L	10.0	1	11/09/20 13:49	11/10/20 01:09	7439-96-5	
Molybdenum, Dissolved	273	ug/L	10.0	1	11/09/20 13:49	11/10/20 01:09	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:36	7440-36-0	
Arsenic	125	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:36	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 11:36	7440-41-7	
Cobalt	1.8	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:36	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:36	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	4620	mg/L	40.0	1		11/09/20 15:49		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		11/06/20 09:42		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

QC Batch: 592709

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

METHOD BLANK: 2734710

Matrix: Water

Associated Lab Samples: 50272208001, 50272208002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/12/20 18:37	
Fluoride	mg/L	ND	0.10	11/12/20 18:37	
Sulfate	mg/L	ND	0.25	11/12/20 18:37	

LABORATORY CONTROL SAMPLE: 2734711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	96	80-120	
Fluoride	mg/L	0.5	0.47	94	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2734712 2734713

Parameter	Units	50272028003		2734712		2734713		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	18.6	12.5	12.5	31.1	31.1	100	100	80-120	0	15		
Fluoride	mg/L	0.33	0.5	0.5	0.83	0.84	102	102	80-120	1	15		
Sulfate	mg/L	89.9	25	25	116	116	104	105	80-120	0	15		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

QC Batch: 591370

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

METHOD BLANK: 2728109

Matrix: Water

Associated Lab Samples: 50272208001, 50272208002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/10/20 12:58	
Boron	ug/L	ND	100	11/10/20 12:58	
Calcium	ug/L	ND	1000	11/10/20 12:58	
Chromium	ug/L	ND	10.0	11/10/20 12:58	
Lead	ug/L	ND	10.0	11/10/20 12:58	
Lithium	ug/L	ND	20.0	11/10/20 12:58	
Molybdenum	ug/L	ND	10.0	11/10/20 12:58	

LABORATORY CONTROL SAMPLE: 2728110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	969	97	80-120	
Boron	ug/L	1000	996	100	80-120	
Calcium	ug/L	10000	9790	98	80-120	
Chromium	ug/L	1000	976	98	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	994	99	80-120	
Molybdenum	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728111 2728112

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272215001 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	16900	5000	5000	20600	19000	73	42	75-125	8	20 M3
Boron	ug/L	1310	5000	5000	4870	5000	71	74	75-125	3	20 M3
Calcium	ug/L	3050000	50000	50000	3130000	2820000	160	-467	75-125	11	20 E,P6
Chromium	ug/L	4660	5000	5000	8230	7960	71	66	75-125	3	20 M3
Lead	ug/L	3890	5000	5000	7600	7270	74	68	75-125	4	20 M3
Lithium	ug/L	2270	5000	5000	6580	6480	86	84	75-125	2	20
Molybdenum	ug/L	2310	5000	5000	5340	5560	61	65	75-125	4	20 M3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728113 2728114

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272286008 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	193	1000	1000	1150	1150	96	96	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728113		2728114		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272286008 Result	MS Spike Conc.	MSD Spike Conc.									
Boron	ug/L	122	1000	1000	1140	1150	102	103	75-125	1	20		
Calcium	ug/L	311000	10000	10000	310000	320000	-8	88	75-125	3	20	E,P6	
Chromium	ug/L	12.8	1000	1000	949	944	94	93	75-125	1	20		
Lead	ug/L	17.6	1000	1000	945	943	93	93	75-125	0	20		
Lithium	ug/L	ND	1000	1000	1030	1030	101	102	75-125	0	20		
Molybdenum	ug/L	ND	1000	1000	975	973	97	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3
Pace Project No.: 50272208

QC Batch: 591686	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

METHOD BLANK: 2730187 Matrix: Water
Associated Lab Samples: 50272208001, 50272208002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	100	11/09/20 23:59	
Lithium, Dissolved	ug/L	ND	20.0	11/09/20 23:59	
Manganese, Dissolved	ug/L	ND	10.0	11/09/20 23:59	
Molybdenum, Dissolved	ug/L	ND	10.0	11/09/20 23:59	

LABORATORY CONTROL SAMPLE: 2730188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	8920	89	80-120	
Lithium, Dissolved	ug/L	1000	977	98	80-120	
Manganese, Dissolved	ug/L	1000	900	90	80-120	
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730189 2730190

Parameter	Units	50271320002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Iron, Dissolved	ug/L	193	10000	10000	8780	8720	86	85	75-125	1	20		
Lithium, Dissolved	ug/L	17.4J	1000	1000	988	971	97	95	75-125	2	20		
Manganese, Dissolved	ug/L	21.1	1000	1000	882	884	86	86	75-125	0	20		
Molybdenum, Dissolved	ug/L	3.0J	1000	1000	1000	993	100	99	75-125	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730191 2730192

Parameter	Units	50271320003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Iron, Dissolved	ug/L	330	10000	10000	9010	9090	87	88	75-125	1	20		
Lithium, Dissolved	ug/L	15.8J	1000	1000	992	991	98	98	75-125	0	20		
Manganese, Dissolved	ug/L	27.2	1000	1000	900	911	87	88	75-125	1	20		
Molybdenum, Dissolved	ug/L	4.4J	1000	1000	1010	1010	100	101	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730261		2730262		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272229005 Result	MS Spike Conc.	MSD Spike Conc.									
Iron, Dissolved	ug/L	4280	10000	10000	12900	13100	87	88	75-125	1	20		
Lithium, Dissolved	ug/L	<20.0	1000	1000	965	965	96	96	75-125	0	20		
Manganese, Dissolved	ug/L	29.0	1000	1000	902	909	87	88	75-125	1	20		
Molybdenum, Dissolved	ug/L	<10.0	1000	1000	994	994	99	99	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

QC Batch: 591148	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

METHOD BLANK: 2726908 Matrix: Water

Associated Lab Samples: 50272208001, 50272208002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/09/20 10:09	
Arsenic	ug/L	ND	1.0	11/09/20 10:09	
Beryllium	ug/L	ND	0.20	11/09/20 10:09	
Cobalt	ug/L	ND	1.0	11/09/20 10:09	
Selenium	ug/L	ND	1.0	11/09/20 10:09	

LABORATORY CONTROL SAMPLE: 2726909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.5	106	80-120	
Arsenic	ug/L	40	36.6	92	80-120	
Beryllium	ug/L	40	37.2	93	80-120	
Cobalt	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	37.5	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2726910 2726911

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272213001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	7.7	40	40	51.3	51.8	109	110	75-125	1	20
Arsenic	ug/L	1.2	40	40	36.7	37.3	89	90	75-125	2	20
Beryllium	ug/L	ND	40	40	41.5	40.5	104	101	75-125	3	20
Cobalt	ug/L	ND	40	40	40.9	40.8	102	101	75-125	0	20
Selenium	ug/L	1.5	40	40	38.5	39.3	93	94	75-125	2	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

QC Batch: 591774	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

METHOD BLANK: 2730429 Matrix: Water

Associated Lab Samples: 50272208001, 50272208002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/09/20 15:35	

LABORATORY CONTROL SAMPLE: 2730430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

SAMPLE DUPLICATE: 2730431

Parameter	Units	50272206004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	300	302	1	10	

SAMPLE DUPLICATE: 2730432

Parameter	Units	50272208002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4620	4590	1	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

QC Batch: 591391

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272208001, 50272208002

SAMPLE DUPLICATE: 2728199

Parameter	Units	50269065004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.5	1	2	H3

SAMPLE DUPLICATE: 2728223

Parameter	Units	50272156001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.1	1	2	H3

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QUALIFIERS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272208001	P2 PZ-3S	EPA 9056	592709		
50272208002	P2 PZ-3D	EPA 9056	592709		
50272208001	P2 PZ-3S	EPA 3010	591370	EPA 6010	592081
50272208002	P2 PZ-3D	EPA 3010	591370	EPA 6010	592081
50272208001	P2 PZ-3S	EPA 3010	591686	EPA 6010	591947
50272208002	P2 PZ-3D	EPA 3010	591686	EPA 6010	591947
50272208001	P2 PZ-3S	EPA 200.2	591148	EPA 6020	591339
50272208002	P2 PZ-3D	EPA 200.2	591148	EPA 6020	591339
50272208001	P2 PZ-3S	SM 2540C	591774		
50272208002	P2 PZ-3D	SM 2540C	591774		
50272208001	P2 PZ-3S	SM 4500-H+B	591391		
50272208002	P2 PZ-3D	SM 4500-H+B	591391		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DP W/4/20 1540

Courier: Fed Ex UPS Client Face USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other Zyloc

Thermometer: 1) 2 3 4 5 6 ABCDEF

Ice Type: Wet Blue None

Cooler Temperature: 1.7 / 1.3
Temp should be above freezing to 6°C (Initial/Corrected)

If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	/		
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Rush TAT Requested (4 days or less):		/	Headspace Wisconsin Sulfide?			/
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm):			/
Containers Intact?:	/		Trip Blank Present?		/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Custody Seals?:			/
Extra labels on Terracore Vials? (soils only)		/				

COMMENTS:

Sample Container Count

Sample Line Item	WGFU	SBS Di BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Matrix	pH <2	pH >9	pH >10		
				1																										
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

WT ✓
↓ ✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50272213

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272213001	MW-3S	Water	11/03/20 13:57	11/04/20 15:00
50272213002	MW-3D	Water	11/03/20 13:07	11/04/20 15:00
50272213003	MW-4S	Water	11/03/20 16:10	11/04/20 15:00
50272213005	MW-15S	Water	11/03/20 09:45	11/04/20 15:00
50272213006	MW-15I	Water	11/03/20 10:41	11/04/20 15:00
50272213007	MW-15D	Water	11/03/20 11:38	11/04/20 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272213001	MW-3S	EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
50272213002	MW-3D	SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50272213003	MW-4S	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272213005	MW-15S	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
50272213006	MW-15I	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
50272213006	MW-15I	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272213007	MW-15D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272213001	MW-3S					
EPA 9056	Chloride	119	mg/L	2.5	11/14/20 05:25	
EPA 9056	Fluoride	0.21	mg/L	0.10	11/14/20 05:09	
EPA 9056	Sulfate	34.7	mg/L	2.5	11/14/20 05:25	
EPA 6010	Barium	45.6	ug/L	10.0	11/10/20 13:35	
EPA 6010	Boron	333	ug/L	100	11/10/20 13:35	
EPA 6010	Calcium	99600	ug/L	1000	11/10/20 13:35	
EPA 6010	Molybdenum	40.6	ug/L	10.0	11/10/20 13:35	
EPA 6020	Antimony	7.7	ug/L	1.0	11/09/20 11:41	
EPA 6020	Arsenic	1.2	ug/L	1.0	11/09/20 11:41	
EPA 6020	Selenium	1.5	ug/L	1.0	11/09/20 11:41	
EPA 903.1	Radium-226	0.207 ± 0.476 (0.861) C:NA T:96%	pCi/L		11/30/20 14:06	
EPA 904.0	Radium-228	0.457 ± 0.404 (0.819) C:74% T:87%	pCi/L		11/25/20 15:04	
Total Radium Calculation	Total Radium	0.664 ± 0.880 (1.68)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	520	mg/L	10.0	11/09/20 15:56	
SM 4500-H+B	pH at 25 Degrees C	8.2	Std. Units	0.10	11/06/20 13:47	H3
50272213002	MW-3D					
EPA 9056	Chloride	116	mg/L	2.5	11/14/20 06:15	
EPA 9056	Fluoride	0.20	mg/L	0.10	11/14/20 05:56	
EPA 9056	Sulfate	227	mg/L	2.5	11/14/20 06:15	
EPA 6010	Barium	53.2	ug/L	10.0	11/10/20 13:37	
EPA 6010	Boron	851	ug/L	100	11/10/20 13:37	
EPA 6010	Calcium	122000	ug/L	1000	11/10/20 13:37	
EPA 6020	Arsenic	2.9	ug/L	1.0	11/09/20 12:12	
EPA 903.1	Radium-226	0.826 ± 0.447 (0.451) C:NA T:88%	pCi/L		11/30/20 14:06	
EPA 904.0	Radium-228	0.715 ± 0.448 (0.845) C:74% T:83%	pCi/L		11/25/20 15:04	
Total Radium Calculation	Total Radium	1.54 ± 0.895 (1.30)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	762	mg/L	10.0	11/09/20 15:56	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	11/06/20 13:40	H3
50272213003	MW-4S					
EPA 9056	Chloride	52.3	mg/L	2.5	11/14/20 07:37	
EPA 9056	Sulfate	221	mg/L	2.5	11/14/20 07:37	
EPA 6010	Barium	113	ug/L	10.0	11/10/20 13:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272213003	MW-4S					
EPA 6010	Boron	9090	ug/L	100	11/10/20 13:39	
EPA 6010	Calcium	167000	ug/L	1000	11/10/20 13:39	
EPA 6020	Arsenic	3.3	ug/L	1.0	11/09/20 12:26	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/09/20 12:26	
EPA 6020	Selenium	41.4	ug/L	1.0	11/09/20 12:26	
EPA 903.1	Radium-226	0.586 ± 0.464 (0.677)	pCi/L		11/30/20 14:06	
EPA 904.0	Radium-228	0.717 ± 0.492 (0.961)	pCi/L		11/25/20 15:04	
		C:NA T:90%				
		T:86%				
Total Radium Calculation	Total Radium	1.30 ± 0.956 (1.64)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	762	mg/L	10.0	11/09/20 15:57	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	11/06/20 13:54	H3
50272213005	MW-15S					
EPA 9056	Chloride	49.5	mg/L	2.5	11/14/20 08:27	
EPA 9056	Sulfate	49.9	mg/L	2.5	11/14/20 08:27	
EPA 6010	Barium	61.0	ug/L	10.0	11/10/20 13:41	
EPA 6010	Boron	178	ug/L	100	11/10/20 13:41	
EPA 6010	Calcium	110000	ug/L	1000	11/10/20 13:41	
EPA 903.1	Radium-226	0.0445 ± 0.262 (0.534)	pCi/L		11/30/20 14:06	
EPA 904.0	Radium-228	0.358 ± 0.365 (0.754)	pCi/L		11/25/20 15:04	
		C:74%				
		T:88%				
Total Radium Calculation	Total Radium	0.403 ± 0.627 (1.29)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	497	mg/L	10.0	11/09/20 15:57	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/06/20 13:30	H3
50272213006	MW-15I					
EPA 9056	Chloride	16.5	mg/L	2.5	11/14/20 08:59	
EPA 9056	Sulfate	39.1	mg/L	2.5	11/14/20 08:59	
EPA 6010	Barium	61.9	ug/L	10.0	11/10/20 13:44	
EPA 6010	Boron	163	ug/L	100	11/10/20 13:44	
EPA 6010	Calcium	99200	ug/L	1000	11/10/20 13:44	
EPA 6020	Selenium	2.0	ug/L	1.0	11/09/20 12:35	
EPA 903.1	Radium-226	0.399 ± 0.369 (0.537)	pCi/L		11/30/20 14:06	
		C:NA T:92%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272213006	MW-15I					
EPA 904.0	Radium-228	0.284 ± 0.413 (0.889) C:73% T:87%	pCi/L		11/25/20 15:04	
Total Radium Calculation	Total Radium	0.683 ± 0.782 (1.43)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	417	mg/L	10.0	11/09/20 15:58	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/06/20 13:34	H3
50272213007	MW-15D					
EPA 9056	Chloride	28.1	mg/L	2.5	11/14/20 09:33	
EPA 9056	Sulfate	67.0	mg/L	2.5	11/14/20 09:33	
EPA 6010	Barium	63.2	ug/L	10.0	11/10/20 13:50	
EPA 6010	Boron	145	ug/L	100	11/10/20 13:50	
EPA 6010	Calcium	96800	ug/L	1000	11/10/20 13:50	
EPA 6020	Arsenic	1.7	ug/L	1.0	11/09/20 12:40	
EPA 903.1	Radium-226	0.565 ± 0.375 (0.437) C:NA T:92%	pCi/L		11/30/20 14:06	
EPA 904.0	Radium-228	0.869 ± 0.495 (0.906) C:73% T:84%	pCi/L		11/25/20 15:04	
Total Radium Calculation	Total Radium	1.43 ± 0.870 (1.34)	pCi/L		11/30/20 15:48	
SM 2540C	Total Dissolved Solids	448	mg/L	10.0	11/09/20 15:58	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	11/06/20 13:37	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-3S	Lab ID: 50272213001	Collected: 11/03/20 13:57	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	119	mg/L	2.5	10		11/14/20 05:25	16887-00-6	
Fluoride	0.21	mg/L	0.10	1		11/14/20 05:09	16984-48-8	
Sulfate	34.7	mg/L	2.5	10		11/14/20 05:25	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	45.6	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:35	7440-39-3	
Boron	333	ug/L	100	1	11/08/20 13:41	11/10/20 13:35	7440-42-8	
Calcium	99600	ug/L	1000	1	11/08/20 13:41	11/10/20 13:35	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:35	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:35	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:35	7439-93-2	
Molybdenum	40.6	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:35	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	7.7	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:41	7440-36-0	
Arsenic	1.2	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:41	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 11:41	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:41	7440-48-4	
Selenium	1.5	ug/L	1.0	1	11/05/20 16:20	11/09/20 11:41	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	520	mg/L	10.0	1		11/09/20 15:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	8.2	Std. Units	0.10	1		11/06/20 13:47		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-3D	Lab ID: 50272213002	Collected: 11/03/20 13:07	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	116	mg/L	2.5	10		11/14/20 06:15	16887-00-6	
Fluoride	0.20	mg/L	0.10	1		11/14/20 05:56	16984-48-8	
Sulfate	227	mg/L	2.5	10		11/14/20 06:15	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	53.2	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:37	7440-39-3	
Boron	851	ug/L	100	1	11/08/20 13:41	11/10/20 13:37	7440-42-8	
Calcium	122000	ug/L	1000	1	11/08/20 13:41	11/10/20 13:37	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:37	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:37	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:37	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:37	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:12	7440-36-0	
Arsenic	2.9	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:12	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 12:12	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:12	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:12	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	762	mg/L	10.0	1		11/09/20 15:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.9	Std. Units	0.10	1		11/06/20 13:40		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-4S	Lab ID: 50272213003	Collected: 11/03/20 16:10	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	52.3	mg/L	2.5	10		11/14/20 07:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/14/20 07:21	16984-48-8	
Sulfate	221	mg/L	2.5	10		11/14/20 07:37	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	113	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:39	7440-39-3	
Boron	9090	ug/L	100	1	11/08/20 13:41	11/10/20 13:39	7440-42-8	
Calcium	167000	ug/L	1000	1	11/08/20 13:41	11/10/20 13:39	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:39	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:39	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:39	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:39	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:26	7440-36-0	
Arsenic	3.3	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:26	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 12:26	7440-41-7	
Cobalt	1.1	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:26	7440-48-4	
Selenium	41.4	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:26	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	762	mg/L	10.0	1		11/09/20 15:57		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		11/06/20 13:54		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-15S	Lab ID: 50272213005	Collected: 11/03/20 09:45	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	49.5	mg/L	2.5	10		11/14/20 08:27	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/14/20 08:09	16984-48-8	
Sulfate	49.9	mg/L	2.5	10		11/14/20 08:27	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	61.0	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:41	7440-39-3	
Boron	178	ug/L	100	1	11/08/20 13:41	11/10/20 13:41	7440-42-8	
Calcium	110000	ug/L	1000	1	11/08/20 13:41	11/10/20 13:41	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:41	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:41	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:41	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:41	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:31	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:31	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 12:31	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:31	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:31	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	497	mg/L	10.0	1		11/09/20 15:57		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/06/20 13:30		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-15I	Lab ID: 50272213006	Collected: 11/03/20 10:41	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	16.5	mg/L	2.5	10		11/14/20 08:59	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/14/20 08:44	16984-48-8	
Sulfate	39.1	mg/L	2.5	10		11/14/20 08:59	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	61.9	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:44	7440-39-3	
Boron	163	ug/L	100	1	11/08/20 13:41	11/10/20 13:44	7440-42-8	
Calcium	99200	ug/L	1000	1	11/08/20 13:41	11/10/20 13:44	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:44	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:44	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:44	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:44	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:35	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:35	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 12:35	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:35	7440-48-4	
Selenium	2.0	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:35	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	417	mg/L	10.0	1		11/09/20 15:58		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/06/20 13:34		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-15D	Lab ID: 50272213007	Collected: 11/03/20 11:38	Received: 11/04/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	28.1	mg/L	2.5	10		11/14/20 09:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/14/20 09:15	16984-48-8	
Sulfate	67.0	mg/L	2.5	10		11/14/20 09:33	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	63.2	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:50	7440-39-3	
Boron	145	ug/L	100	1	11/08/20 13:41	11/10/20 13:50	7440-42-8	
Calcium	96800	ug/L	1000	1	11/08/20 13:41	11/10/20 13:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:50	7440-47-3	
Lead	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:50	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/08/20 13:41	11/10/20 13:50	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/08/20 13:41	11/10/20 13:50	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:40	7440-36-0	
Arsenic	1.7	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:40	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/05/20 16:20	11/09/20 12:40	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:40	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/05/20 16:20	11/09/20 12:40	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	448	mg/L	10.0	1		11/09/20 15:58		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		11/06/20 13:37		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

QC Batch: 592860 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2735458 Matrix: Water
 Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/13/20 16:11	
Fluoride	mg/L	ND	0.10	11/13/20 16:11	
Sulfate	mg/L	ND	0.25	11/13/20 16:11	

LABORATORY CONTROL SAMPLE: 2735459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.49	97	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2735460 2735461

Parameter	Units	50273142001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	163	125	125	296	296	107	106	80-120	0	15	
Fluoride	mg/L	3.8	0.5	0.5	4.4	4.4	104	109	80-120	1	15	
Sulfate	mg/L	2.5	2.5	2.5	4.8	4.8	95	95	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272213

QC Batch: 591370 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2728109 Matrix: Water
Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/10/20 12:58	
Boron	ug/L	ND	100	11/10/20 12:58	
Calcium	ug/L	ND	1000	11/10/20 12:58	
Chromium	ug/L	ND	10.0	11/10/20 12:58	
Lead	ug/L	ND	10.0	11/10/20 12:58	
Lithium	ug/L	ND	20.0	11/10/20 12:58	
Molybdenum	ug/L	ND	10.0	11/10/20 12:58	

LABORATORY CONTROL SAMPLE: 2728110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	969	97	80-120	
Boron	ug/L	1000	996	100	80-120	
Calcium	ug/L	10000	9790	98	80-120	
Chromium	ug/L	1000	976	98	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	994	99	80-120	
Molybdenum	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728111 2728112

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272215001 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	16900	5000	5000	20600	19000	73	42	75-125	8	20 M3
Boron	ug/L	1310	5000	5000	4870	5000	71	74	75-125	3	20 M3
Calcium	ug/L	3050000	50000	50000	3130000	2820000	160	-467	75-125	11	20 E,P6
Chromium	ug/L	4660	5000	5000	8230	7960	71	66	75-125	3	20 M3
Lead	ug/L	3890	5000	5000	7600	7270	74	68	75-125	4	20 M3
Lithium	ug/L	2270	5000	5000	6580	6480	86	84	75-125	2	20
Molybdenum	ug/L	2310	5000	5000	5340	5560	61	65	75-125	4	20 M3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728113 2728114

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272286008 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	193	1000	1000	1150	1150	96	96	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728113		2728114		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272286008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Boron	ug/L	122	1000	1000	1140	1150	102	103	75-125	1	20		
Calcium	ug/L	311000	10000	10000	310000	320000	-8	88	75-125	3	20	E,P6	
Chromium	ug/L	12.8	1000	1000	949	944	94	93	75-125	1	20		
Lead	ug/L	17.6	1000	1000	945	943	93	93	75-125	0	20		
Lithium	ug/L	ND	1000	1000	1030	1030	101	102	75-125	0	20		
Molybdenum	ug/L	ND	1000	1000	975	973	97	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

QC Batch:	591148	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2726908 Matrix: Water
Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/09/20 10:09	
Arsenic	ug/L	ND	1.0	11/09/20 10:09	
Beryllium	ug/L	ND	0.20	11/09/20 10:09	
Cobalt	ug/L	ND	1.0	11/09/20 10:09	
Selenium	ug/L	ND	1.0	11/09/20 10:09	

LABORATORY CONTROL SAMPLE: 2726909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.5	106	80-120	
Arsenic	ug/L	40	36.6	92	80-120	
Beryllium	ug/L	40	37.2	93	80-120	
Cobalt	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	37.5	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2726910 2726911

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272213001 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	7.7	40	40	40	51.3	51.8	109	110	75-125	1	20	
Arsenic	ug/L	1.2	40	40	40	36.7	37.3	89	90	75-125	2	20	
Beryllium	ug/L	ND	40	40	40	41.5	40.5	104	101	75-125	3	20	
Cobalt	ug/L	ND	40	40	40	40.9	40.8	102	101	75-125	0	20	
Selenium	ug/L	1.5	40	40	40	38.5	39.3	93	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272213

QC Batch: 591776 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2730437 Matrix: Water
Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/09/20 15:56	

LABORATORY CONTROL SAMPLE: 2730438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	267	89	80-120	

SAMPLE DUPLICATE: 2730439

Parameter	Units	50272213005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	497	514	3	10	

SAMPLE DUPLICATE: 2730440

Parameter	Units	50272328003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2380	2440	2	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

QC Batch:	591424	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

SAMPLE DUPLICATE: 2728361

Parameter	Units	50272078003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.7	0	2	H3

SAMPLE DUPLICATE: 2728362

Parameter	Units	50272276001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-3S **Lab ID: 50272213001** Collected: 11/03/20 13:57 Received: 11/04/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.207 ± 0.476 (0.861) C:NA T:96%	pCi/L	11/30/20 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.457 ± 0.404 (0.819) C:74% T:87%	pCi/L	11/25/20 15:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.664 ± 0.880 (1.68)	pCi/L	11/30/20 15:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-3D **Lab ID: 50272213002** Collected: 11/03/20 13:07 Received: 11/04/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.826 ± 0.447 (0.451) C:NA T:88%	pCi/L	11/30/20 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.715 ± 0.448 (0.845) C:74% T:83%	pCi/L	11/25/20 15:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.54 ± 0.895 (1.30)	pCi/L	11/30/20 15:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-4S **Lab ID: 50272213003** Collected: 11/03/20 16:10 Received: 11/04/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.586 ± 0.464 (0.677) C:NA T:90%	pCi/L	11/30/20 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.717 ± 0.492 (0.961) C:73% T:86%	pCi/L	11/25/20 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.30 ± 0.956 (1.64)	pCi/L	11/30/20 15:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-15S **Lab ID: 50272213005** Collected: 11/03/20 09:45 Received: 11/04/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0445 ± 0.262 (0.534) C:NA T:95%	pCi/L	11/30/20 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.358 ± 0.365 (0.754) C:74% T:88%	pCi/L	11/25/20 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.403 ± 0.627 (1.29)	pCi/L	11/30/20 15:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-151 Lab ID: 50272213006 Collected: 11/03/20 10:41 Received: 11/04/20 15:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.399 ± 0.369 (0.537) C:NA T:92%	pCi/L	11/30/20 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.284 ± 0.413 (0.889) C:73% T:87%	pCi/L	11/25/20 15:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.683 ± 0.782 (1.43)	pCi/L	11/30/20 15:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Sample: MW-15D **Lab ID: 50272213007** Collected: 11/03/20 11:38 Received: 11/04/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.565 ± 0.375 (0.437) C:NA T:92%	pCi/L	11/30/20 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.869 ± 0.495 (0.906) C:73% T:84%	pCi/L	11/25/20 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.43 ± 0.870 (1.34)	pCi/L	11/30/20 15:48	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

QC Batch: 422513

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2042430

Matrix: Water

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.102 ± 0.274 (0.509) C:NA T:92%	pCi/L	11/30/20 14:06	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

QC Batch: 422514

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

METHOD BLANK: 2042431

Matrix: Water

Associated Lab Samples: 50272213001, 50272213002, 50272213003, 50272213005, 50272213006, 50272213007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.186 ± 0.310 (0.674) C:74% T:97%	pCi/L	11/25/20 15:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272213001	MW-3S	EPA 9056	592860		
50272213002	MW-3D	EPA 9056	592860		
50272213003	MW-4S	EPA 9056	592860		
50272213005	MW-15S	EPA 9056	592860		
50272213006	MW-15I	EPA 9056	592860		
50272213007	MW-15D	EPA 9056	592860		
50272213001	MW-3S	EPA 3010	591370	EPA 6010	592081
50272213002	MW-3D	EPA 3010	591370	EPA 6010	592081
50272213003	MW-4S	EPA 3010	591370	EPA 6010	592081
50272213005	MW-15S	EPA 3010	591370	EPA 6010	592081
50272213006	MW-15I	EPA 3010	591370	EPA 6010	592081
50272213007	MW-15D	EPA 3010	591370	EPA 6010	592081
50272213001	MW-3S	EPA 200.2	591148	EPA 6020	591339
50272213002	MW-3D	EPA 200.2	591148	EPA 6020	591339
50272213003	MW-4S	EPA 200.2	591148	EPA 6020	591339
50272213005	MW-15S	EPA 200.2	591148	EPA 6020	591339
50272213006	MW-15I	EPA 200.2	591148	EPA 6020	591339
50272213007	MW-15D	EPA 200.2	591148	EPA 6020	591339
50272213001	MW-3S	EPA 903.1	422513		
50272213002	MW-3D	EPA 903.1	422513		
50272213003	MW-4S	EPA 903.1	422513		
50272213005	MW-15S	EPA 903.1	422513		
50272213006	MW-15I	EPA 903.1	422513		
50272213007	MW-15D	EPA 903.1	422513		
50272213001	MW-3S	EPA 904.0	422514		
50272213002	MW-3D	EPA 904.0	422514		
50272213003	MW-4S	EPA 904.0	422514		
50272213005	MW-15S	EPA 904.0	422514		
50272213006	MW-15I	EPA 904.0	422514		
50272213007	MW-15D	EPA 904.0	422514		
50272213001	MW-3S	Total Radium Calculation	425122		
50272213002	MW-3D	Total Radium Calculation	425122		
50272213003	MW-4S	Total Radium Calculation	425122		
50272213005	MW-15S	Total Radium Calculation	425122		
50272213006	MW-15I	Total Radium Calculation	425122		
50272213007	MW-15D	Total Radium Calculation	425122		
50272213001	MW-3S	SM 2540C	591776		
50272213002	MW-3D	SM 2540C	591776		
50272213003	MW-4S	SM 2540C	591776		
50272213005	MW-15S	SM 2540C	591776		
50272213006	MW-15I	SM 2540C	591776		
50272213007	MW-15D	SM 2540C	591776		
50272213001	MW-3S	SM 4500-H+B	591424		
50272213002	MW-3D	SM 4500-H+B	591424		
50272213003	MW-4S	SM 4500-H+B	591424		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272213005	MW-15S	SM 4500-H+B	591424		
50272213006	MW-15I	SM 4500-H+B	591424		
50272213007	MW-15D	SM 4500-H+B	591424		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DP 11/4/20 1530

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other Zydux

Thermometer: 1 2 3 4 5 6 A B C D E F

Ice Type: Wet Blue None

Cooler Temperature: 1.7 / 1.3
Temp should be above freezing to 6°C (Initial/Corrected)

If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Rush TAT Requested (4 days or less):		/	Headspace Wisconsin Sulfide?			/
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm):			/
Containers Intact?:	/		Trip Blank Present?		/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Custody Seals?:			/
Extra labels on Terracore Vials? (soils only)		/				

COMMENTS:
 Do not run MW-9D, sample will be recollected per Mark. dss 110520

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10					
																																1				
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

2 1 1 1
↓ ↓ ↓ ↓

WT ✓
↓ ✓
↓ ✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
																															1	
2																																
3															2	1	1	1														WT ✓
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGFLU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
				1																2	1	1	1										WT
2																↓	↓												↓	-			
3																↓	↓	↓	↓														
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFLU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFLU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50272362

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272362

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272362001	MW-2S	Water	11/04/20 11:59	11/05/20 15:00
50272362002	MW-2D	Water	11/04/20 12:49	11/05/20 15:00
50272362003	MW-9I	Water	11/04/20 10:54	11/05/20 15:00
50272362004	MW-9D	Water	11/04/20 10:00	11/05/20 15:00
50272362005	DUP 1	Water	11/04/20 00:00	11/05/20 15:00

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272362001	MW-2S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272362002	MW-2D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272362003	MW-9I	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272362004	MW-9D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272362005	DUP 1	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272362001	MW-2S					
EPA 9056	Chloride	1140	mg/L	250	11/14/20 14:36	
EPA 9056	Fluoride	0.28	mg/L	0.10	11/14/20 02:36	
EPA 9056	Sulfate	1550	mg/L	25.0	11/14/20 02:53	
EPA 6010	Barium	137	ug/L	10.0	11/12/20 02:00	
EPA 6010	Boron	427	ug/L	100	11/12/20 02:00	
EPA 6010	Calcium	431000	ug/L	5000	11/12/20 02:44	
EPA 6010	Lithium	23.0	ug/L	20.0	11/12/20 02:00	
EPA 6010	Molybdenum	36.0	ug/L	10.0	11/12/20 02:00	
EPA 6020	Arsenic	16.4	ug/L	1.0	11/07/20 11:04	
EPA 6020	Cobalt	1.3	ug/L	1.0	11/07/20 11:04	
EPA 903.1	Radium-226	1.84 ± 0.655 (0.147)	pCi/L		12/02/20 15:24	
		C:NA T:77%				
EPA 904.0	Radium-228	2.62 ± 0.938 (1.46)	pCi/L		12/01/20 15:02	
		C:60% T:78%				
Total Radium Calculation	Total Radium	4.46 ± 1.59 (1.61)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	4220	mg/L	50.0	11/11/20 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/09/20 14:50	H3
50272362002	MW-2D					
EPA 9056	Chloride	563	mg/L	25.0	11/14/20 04:00	
EPA 9056	Fluoride	1.0	mg/L	0.10	11/14/20 03:43	
EPA 9056	Sulfate	625	mg/L	25.0	11/14/20 04:00	
EPA 6010	Barium	108	ug/L	10.0	11/12/20 02:02	
EPA 6010	Boron	2810	ug/L	100	11/12/20 02:02	
EPA 6010	Calcium	273000	ug/L	2000	11/12/20 02:46	
EPA 6010	Lithium	55.4	ug/L	20.0	11/12/20 02:02	
EPA 6010	Molybdenum	76.9	ug/L	10.0	11/12/20 02:02	
EPA 6020	Arsenic	3.8	ug/L	1.0	11/07/20 11:09	
EPA 903.1	Radium-226	1.82 ± 0.852 (1.01)	pCi/L		12/02/20 15:24	
		T:73% C:NA				
EPA 904.0	Radium-228	2.14 ± 0.832 (1.37)	pCi/L		12/01/20 15:02	
		C:65% T:82%				
Total Radium Calculation	Total Radium	3.96 ± 1.68 (2.38)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	2010	mg/L	40.0	11/11/20 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/09/20 14:52	H3
50272362003	MW-9I					
EPA 9056	Chloride	87.9	mg/L	25.0	11/14/20 04:34	
EPA 9056	Fluoride	0.78	mg/L	0.10	11/14/20 04:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272362003	MW-9I					
EPA 9056	Sulfate	75.0	mg/L	25.0	11/14/20 04:34	
EPA 6010	Barium	67.1	ug/L	10.0	11/12/20 02:04	
EPA 6010	Boron	1320	ug/L	100	11/12/20 02:04	
EPA 6010	Calcium	114000	ug/L	1000	11/12/20 02:04	
EPA 6010	Lithium	23.3	ug/L	20.0	11/12/20 02:04	
EPA 6010	Molybdenum	89.2	ug/L	10.0	11/12/20 02:04	
EPA 6020	Arsenic	4.6	ug/L	1.0	11/07/20 11:13	
EPA 903.1	Radium-226	0.821 ± 0.460 (0.477)	pCi/L		12/02/20 15:24	
EPA 904.0	Radium-228	C:NA T:85% 1.60 ± 0.732 (1.28) C:64% T:78%	pCi/L		12/01/20 15:02	
Total Radium Calculation	Total Radium	2.42 ± 1.19 (1.76)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	554	mg/L	10.0	11/11/20 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/09/20 14:53	H3
50272362004	MW-9D					
EPA 9056	Chloride	119	mg/L	25.0	11/14/20 05:07	
EPA 9056	Fluoride	0.42	mg/L	0.10	11/14/20 04:51	
EPA 9056	Sulfate	160	mg/L	25.0	11/14/20 05:07	
EPA 6010	Barium	51.8	ug/L	10.0	11/12/20 02:20	
EPA 6010	Boron	901	ug/L	100	11/12/20 02:20	
EPA 6010	Calcium	116000	ug/L	1000	11/12/20 02:20	
EPA 6010	Lithium	25.2	ug/L	20.0	11/12/20 02:20	
EPA 6010	Molybdenum	45.2	ug/L	10.0	11/12/20 02:20	
EPA 6020	Arsenic	4.7	ug/L	1.0	11/07/20 11:27	
EPA 903.1	Radium-226	0.585 ± 0.409 (0.494)	pCi/L		12/02/20 15:24	
EPA 904.0	Radium-228	C:NA T:82% 0.638 ± 0.517 (1.03) C:62% T:76%	pCi/L		12/01/20 14:50	
Total Radium Calculation	Total Radium	1.22 ± 0.926 (1.52)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	688	mg/L	10.0	11/11/20 11:26	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 14:54	H3
50272362005	DUP 1					
EPA 9056	Chloride	116	mg/L	25.0	11/14/20 05:41	
EPA 9056	Fluoride	0.42	mg/L	0.10	11/14/20 05:24	
EPA 9056	Sulfate	157	mg/L	25.0	11/14/20 05:41	
EPA 6010	Barium	51.4	ug/L	10.0	11/12/20 02:22	
EPA 6010	Boron	908	ug/L	100	11/12/20 02:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272362005	DUP 1					
EPA 6010	Calcium	115000	ug/L	1000	11/12/20 02:22	
EPA 6010	Lithium	24.7	ug/L	20.0	11/12/20 02:22	
EPA 6010	Molybdenum	44.4	ug/L	10.0	11/12/20 02:22	
EPA 6020	Arsenic	4.7	ug/L	1.0	11/07/20 11:32	
EPA 903.1	Radium-226	1.45 ± 0.593 (0.157)	pCi/L		12/02/20 15:24	
EPA 904.0	Radium-228	C:NA T:77% 0.845 ± 0.554 (1.05) C:63% T:70%	pCi/L		12/01/20 14:50	
Total Radium Calculation	Total Radium	2.30 ± 1.15 (1.21)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	691	mg/L	10.0	11/11/20 11:26	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 14:55	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-2S	Lab ID: 50272362001	Collected: 11/04/20 11:59	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	1140	mg/L	250	1000		11/14/20 14:36	16887-00-6	
Fluoride	0.28	mg/L	0.10	1		11/14/20 02:36	16984-48-8	
Sulfate	1550	mg/L	25.0	100		11/14/20 02:53	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	137	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:00	7440-39-3	
Boron	427	ug/L	100	1	11/11/20 06:07	11/12/20 02:00	7440-42-8	
Calcium	431000	ug/L	5000	5	11/11/20 06:07	11/12/20 02:44	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:00	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:00	7439-92-1	
Lithium	23.0	ug/L	20.0	1	11/11/20 06:07	11/12/20 02:00	7439-93-2	
Molybdenum	36.0	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:00	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:04	7440-36-0	
Arsenic	16.4	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:04	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/06/20 08:30	11/07/20 11:04	7440-41-7	
Cobalt	1.3	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:04	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	4220	mg/L	50.0	1		11/11/20 11:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.1	Std. Units	0.10	1		11/09/20 14:50		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-2D	Lab ID: 50272362002	Collected: 11/04/20 12:49	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	563	mg/L	25.0	100		11/14/20 04:00	16887-00-6	
Fluoride	1.0	mg/L	0.10	1		11/14/20 03:43	16984-48-8	
Sulfate	625	mg/L	25.0	100		11/14/20 04:00	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	108	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:02	7440-39-3	
Boron	2810	ug/L	100	1	11/11/20 06:07	11/12/20 02:02	7440-42-8	
Calcium	273000	ug/L	2000	2	11/11/20 06:07	11/12/20 02:46	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:02	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:02	7439-92-1	
Lithium	55.4	ug/L	20.0	1	11/11/20 06:07	11/12/20 02:02	7439-93-2	
Molybdenum	76.9	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:02	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:09	7440-36-0	
Arsenic	3.8	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:09	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/06/20 08:30	11/07/20 11:09	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:09	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:09	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2010	mg/L	40.0	1		11/11/20 11:25		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		11/09/20 14:52		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-9I	Lab ID: 50272362003	Collected: 11/04/20 10:54	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	87.9	mg/L	25.0	100		11/14/20 04:34	16887-00-6	
Fluoride	0.78	mg/L	0.10	1		11/14/20 04:17	16984-48-8	
Sulfate	75.0	mg/L	25.0	100		11/14/20 04:34	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	67.1	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:04	7440-39-3	
Boron	1320	ug/L	100	1	11/11/20 06:07	11/12/20 02:04	7440-42-8	
Calcium	114000	ug/L	1000	1	11/11/20 06:07	11/12/20 02:04	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:04	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:04	7439-92-1	
Lithium	23.3	ug/L	20.0	1	11/11/20 06:07	11/12/20 02:04	7439-93-2	
Molybdenum	89.2	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:04	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:13	7440-36-0	
Arsenic	4.6	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:13	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/06/20 08:30	11/07/20 11:13	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:13	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:13	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	554	mg/L	10.0	1		11/11/20 11:25		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/09/20 14:53		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-9D	Lab ID: 50272362004	Collected: 11/04/20 10:00	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	119	mg/L	25.0	100		11/14/20 05:07	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		11/14/20 04:51	16984-48-8	
Sulfate	160	mg/L	25.0	100		11/14/20 05:07	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	51.8	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:20	7440-39-3	
Boron	901	ug/L	100	1	11/11/20 06:07	11/12/20 02:20	7440-42-8	
Calcium	116000	ug/L	1000	1	11/11/20 06:07	11/12/20 02:20	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:20	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:20	7439-92-1	
Lithium	25.2	ug/L	20.0	1	11/11/20 06:07	11/12/20 02:20	7439-93-2	
Molybdenum	45.2	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:20	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:27	7440-36-0	
Arsenic	4.7	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:27	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/06/20 08:30	11/07/20 11:27	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:27	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:27	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	688	mg/L	10.0	1		11/11/20 11:26		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 14:54		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: DUP 1	Lab ID: 50272362005	Collected: 11/04/20 00:00	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	116	mg/L	25.0	100		11/14/20 05:41	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		11/14/20 05:24	16984-48-8	
Sulfate	157	mg/L	25.0	100		11/14/20 05:41	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	51.4	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:22	7440-39-3	
Boron	908	ug/L	100	1	11/11/20 06:07	11/12/20 02:22	7440-42-8	
Calcium	115000	ug/L	1000	1	11/11/20 06:07	11/12/20 02:22	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:22	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:22	7439-92-1	
Lithium	24.7	ug/L	20.0	1	11/11/20 06:07	11/12/20 02:22	7439-93-2	
Molybdenum	44.4	ug/L	10.0	1	11/11/20 06:07	11/12/20 02:22	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:32	7440-36-0	
Arsenic	4.7	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:32	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/06/20 08:30	11/07/20 11:32	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:32	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/06/20 08:30	11/07/20 11:32	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	691	mg/L	10.0	1		11/11/20 11:26		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 14:55		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch:	592969	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

METHOD BLANK: 2736160 Matrix: Water
Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/13/20 18:12	
Fluoride	mg/L	ND	0.10	11/13/20 18:12	
Sulfate	mg/L	ND	0.25	11/13/20 18:12	

LABORATORY CONTROL SAMPLE: 2736161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	93	80-120	
Fluoride	mg/L	0.5	0.45	91	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736162 2736163

Parameter	Units	50273152001		2736162		2736163		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	76.9	76.9	12.5	12.5	92.0	91.8	120	119	80-120	0	15	
Fluoride	mg/L	0.51	0.51	0.5	0.5	1.0	1.0	100	101	80-120	0	15	
Sulfate	mg/L	554	554	250	250	828	825	109	108	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch: 591695 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

METHOD BLANK: 2730217 Matrix: Water

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/12/20 01:55	
Boron	ug/L	ND	100	11/12/20 01:55	
Calcium	ug/L	ND	1000	11/12/20 01:55	
Chromium	ug/L	ND	10.0	11/12/20 01:55	
Lead	ug/L	ND	10.0	11/12/20 01:55	
Lithium	ug/L	ND	20.0	11/12/20 01:55	
Molybdenum	ug/L	ND	10.0	11/12/20 01:55	

LABORATORY CONTROL SAMPLE: 2730218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	994	99	80-120	
Boron	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	10700	107	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Lead	ug/L	1000	1010	101	80-120	
Lithium	ug/L	1000	998	100	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730219 2730220

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272362003 Result	Spike Conc.	Spike Conc.	Result						
Barium	ug/L	67.1	1000	1000	1060	1050	99	98	75-125	1	20
Boron	ug/L	1320	1000	1000	2300	2300	98	98	75-125	0	20
Calcium	ug/L	114000	10000	10000	118000	119000	47	55	75-125	1	20 P6
Chromium	ug/L	ND	1000	1000	979	976	98	98	75-125	0	20
Lead	ug/L	ND	1000	1000	981	978	98	98	75-125	0	20
Lithium	ug/L	23.3	1000	1000	1030	1020	101	100	75-125	1	20
Molybdenum	ug/L	89.2	1000	1000	1140	1130	105	104	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch: 591292 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

METHOD BLANK: 2727835 Matrix: Water
 Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/07/20 02:27	
Arsenic	ug/L	ND	1.0	11/07/20 02:27	
Beryllium	ug/L	ND	0.20	11/07/20 02:27	
Cobalt	ug/L	ND	1.0	11/07/20 02:27	
Selenium	ug/L	ND	1.0	11/07/20 02:27	

LABORATORY CONTROL SAMPLE: 2727836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.6	109	80-120	
Arsenic	ug/L	40	40.1	100	80-120	
Beryllium	ug/L	40	41.1	103	80-120	
Cobalt	ug/L	40	41.5	104	80-120	
Selenium	ug/L	40	40.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2727837 2727838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272112001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	<1.0	40	40	43.5	42.9	108	107	75-125	1	20
Arsenic	ug/L	<1.0	40	40	36.7	37.5	92	94	75-125	2	20
Beryllium	ug/L	<1.0	40	40	40.7	40.1	102	100	75-125	2	20
Cobalt	ug/L	<1.0	40	40	39.5	38.8	98	96	75-125	2	20
Selenium	ug/L	<1.0	40	40	38.6	38.2	95	94	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch: 592254 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

METHOD BLANK: 2732285 Matrix: Water
 Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 11:21	

LABORATORY CONTROL SAMPLE: 2732286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 2732287

Parameter	Units	50272337007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	244	232	5	10	

SAMPLE DUPLICATE: 2732288

Parameter	Units	50272367007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1410	1410	0	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch:	591869	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

SAMPLE DUPLICATE: 2730730

Parameter	Units	50272362005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2730731

Parameter	Units	50272367007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.7	1	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-2S **Lab ID: 50272362001** Collected: 11/04/20 11:59 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.84 ± 0.655 (0.147) C:NA T:77%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.62 ± 0.938 (1.46) C:60% T:78%	pCi/L	12/01/20 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.46 ± 1.59 (1.61)	pCi/L	12/03/20 10:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-2D **Lab ID: 50272362002** Collected: 11/04/20 12:49 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.82 ± 0.852 (1.01) C:NA T:73%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.14 ± 0.832 (1.37) C:65% T:82%	pCi/L	12/01/20 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.96 ± 1.68 (2.38)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-9I **Lab ID: 50272362003** Collected: 11/04/20 10:54 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.821 ± 0.460 (0.477) C:NA T:85%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.60 ± 0.732 (1.28) C:64% T:78%	pCi/L	12/01/20 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.42 ± 1.19 (1.76)	pCi/L	12/03/20 10:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: MW-9D **Lab ID: 50272362004** Collected: 11/04/20 10:00 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.585 ± 0.409 (0.494) C:NA T:82%	pCi/L	12/02/20 15:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.638 ± 0.517 (1.03) C:62% T:76%	pCi/L	12/01/20 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.22 ± 0.926 (1.52)	pCi/L	12/03/20 10:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Sample: DUP 1 **Lab ID: 50272362005** Collected: 11/04/20 00:00 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.45 ± 0.593 (0.157) C:NA T:77%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.845 ± 0.554 (1.05) C:63% T:70%	pCi/L	12/01/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.30 ± 1.15 (1.21)	pCi/L	12/03/20 10:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

QC Batch: 422659

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

METHOD BLANK: 2042840

Matrix: Water

Associated Lab Samples: 50272362001, 50272362002, 50272362003, 50272362004, 50272362005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0865 ± 0.208 (0.402) C:NA T:79%	pCi/L	12/02/20 15:24	

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272362001	MW-2S	EPA 9056	592969		
50272362002	MW-2D	EPA 9056	592969		
50272362003	MW-9I	EPA 9056	592969		
50272362004	MW-9D	EPA 9056	592969		
50272362005	DUP 1	EPA 9056	592969		
50272362001	MW-2S	EPA 3010	591695	EPA 6010	592537
50272362002	MW-2D	EPA 3010	591695	EPA 6010	592537
50272362003	MW-9I	EPA 3010	591695	EPA 6010	592537
50272362004	MW-9D	EPA 3010	591695	EPA 6010	592537
50272362005	DUP 1	EPA 3010	591695	EPA 6010	592537
50272362001	MW-2S	EPA 200.2	591292	EPA 6020	591505
50272362002	MW-2D	EPA 200.2	591292	EPA 6020	591505
50272362003	MW-9I	EPA 200.2	591292	EPA 6020	591505
50272362004	MW-9D	EPA 200.2	591292	EPA 6020	591505
50272362005	DUP 1	EPA 200.2	591292	EPA 6020	591505
50272362001	MW-2S	EPA 903.1	422659		
50272362002	MW-2D	EPA 903.1	422659		
50272362003	MW-9I	EPA 903.1	422659		
50272362004	MW-9D	EPA 903.1	422659		
50272362005	DUP 1	EPA 903.1	422659		
50272362001	MW-2S	EPA 904.0	422661		
50272362002	MW-2D	EPA 904.0	422661		
50272362003	MW-9I	EPA 904.0	422661		
50272362004	MW-9D	EPA 904.0	422661		
50272362005	DUP 1	EPA 904.0	422661		
50272362001	MW-2S	Total Radium Calculation	425618		
50272362002	MW-2D	Total Radium Calculation	425616		
50272362003	MW-9I	Total Radium Calculation	425618		
50272362004	MW-9D	Total Radium Calculation	425618		
50272362005	DUP 1	Total Radium Calculation	425618		
50272362001	MW-2S	SM 2540C	592254		
50272362002	MW-2D	SM 2540C	592254		
50272362003	MW-9I	SM 2540C	592254		
50272362004	MW-9D	SM 2540C	592254		
50272362005	DUP 1	SM 2540C	592254		
50272362001	MW-2S	SM 4500-H+B	591869		
50272362002	MW-2D	SM 4500-H+B	591869		
50272362003	MW-9I	SM 4500-H+B	591869		
50272362004	MW-9D	SM 4500-H+B	591869		
50272362005	DUP 1	SM 4500-H+B	591869		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: ATC Group Services		Report To: Mark Breting		Attention:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:	
Indianapolis, IN 46256		Purchase Order #:		Address:	
Email: mark.breting@alcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Project Manager: donna.spyker@pacelabs.com,	
Phone: NONE	Fax:	Project #:		Pace Profile #: 6246/1	
Requested Due Date:				IN	

Regulatory Agency
State / Location

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate		IN Rad-226	IN Rad-228
						DATE	TIME	DATE	TIME																	
13	MW-9S	WT																X	X	X	X	X				
14	MW-9I	WT				11/4/20	10:54			5	2			3				X	X	X	X	X		003		
15	MW-9D	WT				11/4/20	10:06			5	2			3				X	X	X	X	X		004		
16	MW-10S	WT																X	X	X	X	X				
17	MW-10D	WT																X	X	X	X	X				
18	MW-11D	WT																X	X	X	X	X				
19	MW-12S	WT																X	X	X	X	X				
20	MW-11S	WT																X	X	X	X	X				
21	MW-12D	WT																X	X	X	X	X				
22	MW-13S	WT																X	X	X	X	X				
23	MW-13D	WT																X	X	X	X	X				
24	MW-14D	WT																X	X	X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MARK Breting / ATC	11/5/20	06:30	Zehn In Pac	11/5/20	14:20	
	Zehn In Pac	11/5/20	15:00		11/5/20	15:00	SECUR

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler Used (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Mark Breting						
SIGNATURE of SAMPLER: Mark Breting	DATE Signed: 11/5/20					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: ML 2/5/20 1545

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: SEE COMMENTS If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.						
	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>				

COMMENTS: 0.5/0.4 1.0/0.9 0.6/0.5 0.9/0.8 0.8/0.7 0.3/0.2

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding Street Profile 1 Rep 2
Pace Project No.: 50272367

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding Street Profile 1 Rep 2
Pace Project No.: 50272367

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272367001	PZ-100S	Water	11/04/20 13:06	11/05/20 15:00
50272367002	PZ-100D	Water	11/04/20 13:10	11/05/20 15:00
50272367003	PZ-101S	Water	11/04/20 10:55	11/05/20 15:00
50272367004	PZ-101D	Water	11/04/20 10:04	11/05/20 15:00
50272367005	DUP 3	Water	11/04/20 08:00	11/05/20 15:00
50272367006	MW-102D	Water	11/04/20 16:40	11/05/20 15:00
50272367007	MW-103S	Water	11/04/20 14:20	11/05/20 15:00
50272367008	MW-103I	Water	11/04/20 12:05	11/05/20 15:00
50272367009	MW-103D	Water	11/04/20 13:50	11/05/20 15:00
50272367010	MW-104S	Water	11/04/20 15:50	11/05/20 15:00
50272367011	MW-104D	Water	11/04/20 14:36	11/05/20 15:00
50272367012	MW-103S MS	Water	11/04/20 14:20	11/05/20 15:00
50272367013	MW-103S MSD	Water	11/04/20 14:20	11/05/20 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272367001	PZ-100S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272367002	PZ-100D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272367003	PZ-101S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272367004	PZ-101D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272367005	DUP 3	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272367006	MW-102D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272367007	MW-103S	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272367008	MW-103I	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272367009	MW-103D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272367010	MW-104S	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272367011	MW-104D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 4500-H+B	TPD	1	PASI-I
50272367012	MW-103S MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272367013	MW-103S MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272367001	PZ-100S					
EPA 9056	Chloride	358	mg/L	25.0	11/14/20 06:15	
EPA 9056	Fluoride	2.0	mg/L	0.10	11/14/20 05:58	
EPA 9056	Sulfate	384	mg/L	25.0	11/14/20 06:15	
EPA 6010	Barium	41.3	ug/L	10.0	11/13/20 03:53	
EPA 6010	Boron	2060	ug/L	100	11/13/20 03:53	
EPA 6010	Calcium	154000	ug/L	1000	11/13/20 03:53	
EPA 6010	Lithium	51.8	ug/L	20.0	11/13/20 03:53	
EPA 6010	Molybdenum	158	ug/L	10.0	11/13/20 03:53	
EPA 6020	Arsenic	2.8	ug/L	1.0	11/11/20 18:34	
EPA 903.1	Radium-226	0.974 ± 0.571 (0.655) C:NA T:77%	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	0.941 ± 0.718 (1.41) C:55% T:79%	pCi/L		12/01/20 17:30	
Total Radium Calculation	Total Radium	1.92 ± 1.29 (2.07)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	1420	mg/L	20.0	11/11/20 11:27	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/09/20 14:58	H3
50272367002	PZ-100D					
EPA 9056	Chloride	202	mg/L	25.0	11/14/20 07:22	
EPA 9056	Fluoride	0.32	mg/L	0.10	11/14/20 07:05	
EPA 9056	Sulfate	635	mg/L	25.0	11/14/20 07:22	
EPA 6010	Barium	58.7	ug/L	10.0	11/13/20 03:55	
EPA 6010	Boron	8980	ug/L	100	11/13/20 03:55	
EPA 6010	Calcium	215000	ug/L	2000	11/13/20 04:31	
EPA 6010	Lithium	69.0	ug/L	20.0	11/13/20 03:55	
EPA 6010	Molybdenum	186	ug/L	10.0	11/13/20 03:55	
EPA 6020	Arsenic	38.4	ug/L	1.0	11/11/20 18:38	
EPA 903.1	Radium-226	0.794 ± 0.482 (0.622) C:NA T:86%	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	1.34 ± 0.760 (1.39) C:62% T:77%	pCi/L		12/01/20 17:30	
Total Radium Calculation	Total Radium	2.13 ± 1.24 (2.01)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	1370	mg/L	20.0	11/11/20 11:27	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/09/20 15:00	H3
50272367003	PZ-101S					
EPA 9056	Chloride	106	mg/L	2.5	11/14/20 07:55	
EPA 9056	Fluoride	0.22	mg/L	0.10	11/14/20 07:39	
EPA 9056	Sulfate	311	mg/L	25.0	11/14/20 08:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272367003	PZ-101S					
EPA 6010	Barium	156	ug/L	10.0	11/13/20 03:58	
EPA 6010	Boron	3830	ug/L	100	11/13/20 03:58	
EPA 6010	Calcium	156000	ug/L	1000	11/13/20 03:58	
EPA 6010	Lithium	27.3	ug/L	20.0	11/13/20 03:58	
EPA 6010	Molybdenum	56.6	ug/L	10.0	11/13/20 03:58	
EPA 6020	Arsenic	23.1	ug/L	1.0	11/11/20 18:42	
EPA 6020	Cobalt	1.6	ug/L	1.0	11/11/20 18:42	
EPA 903.1	Radium-226	0.394 ± 0.309 (0.362)	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	C:NA T:83% 1.33 ± 0.664 (1.11)	pCi/L		12/01/20 17:30	
		C:60% T:79%				
Total Radium Calculation	Total Radium	1.72 ± 0.973 (1.47)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	848	mg/L	20.0	11/11/20 11:27	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/09/20 15:01	H3
50272367004	PZ-101D					
EPA 9056	Chloride	101	mg/L	25.0	11/14/20 08:46	
EPA 9056	Fluoride	0.17	mg/L	0.10	11/14/20 08:29	
EPA 9056	Sulfate	197	mg/L	25.0	11/14/20 08:46	
EPA 6010	Barium	53.0	ug/L	10.0	11/13/20 04:00	
EPA 6010	Boron	3260	ug/L	100	11/13/20 04:00	
EPA 6010	Calcium	120000	ug/L	1000	11/13/20 04:00	
EPA 6010	Lithium	54.3	ug/L	20.0	11/13/20 04:00	
EPA 6010	Molybdenum	116	ug/L	10.0	11/13/20 04:00	
EPA 6020	Arsenic	4.0	ug/L	1.0	11/11/20 18:55	
EPA 903.1	Radium-226	1.12 ± 0.477 (0.132)	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	C:NA T:83% 0.737 ± 0.677 (1.39)	pCi/L		12/01/20 15:04	
		C:58% T:82%				
Total Radium Calculation	Total Radium	1.86 ± 1.15 (1.52)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	712	mg/L	10.0	11/11/20 11:27	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 15:02	H3
50272367005	DUP 3					
EPA 9056	Chloride	112	mg/L	2.5	11/14/20 09:19	
EPA 9056	Fluoride	0.18	mg/L	0.10	11/14/20 09:03	
EPA 9056	Sulfate	206	mg/L	2.5	11/14/20 09:19	
EPA 6010	Barium	53.7	ug/L	10.0	11/13/20 04:02	
EPA 6010	Boron	3260	ug/L	100	11/13/20 04:02	

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272367005	DUP 3					
EPA 6010	Calcium	122000	ug/L	1000	11/13/20 04:02	
EPA 6010	Lithium	54.3	ug/L	20.0	11/13/20 04:02	
EPA 6010	Molybdenum	118	ug/L	10.0	11/13/20 04:02	
EPA 6020	Arsenic	4.1	ug/L	1.0	11/11/20 19:00	
EPA 903.1	Radium-226	0.167 ± 0.289 (0.517)	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	C:NA T:82% 0.424 ± 0.542 (1.15)	pCi/L		12/01/20 15:04	
		C:60% T:76%				
Total Radium Calculation	Total Radium	0.591 ± 0.831 (1.67)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	711	mg/L	10.0	11/11/20 11:28	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 15:04	H3
50272367006	MW-102D					
EPA 9056	Chloride	144	mg/L	25.0	11/14/20 10:43	
EPA 9056	Fluoride	0.24	mg/L	0.10	11/14/20 10:27	
EPA 9056	Sulfate	1040	mg/L	25.0	11/14/20 10:43	
EPA 6010	Barium	45.2	ug/L	10.0	11/13/20 04:05	
EPA 6010	Boron	10300	ug/L	100	11/13/20 04:05	
EPA 6010	Calcium	177000	ug/L	1000	11/13/20 04:05	
EPA 6010	Lithium	58.0	ug/L	20.0	11/13/20 04:05	
EPA 6010	Molybdenum	216	ug/L	10.0	11/13/20 04:05	
EPA 6020	Antimony	13.7	ug/L	1.0	11/11/20 19:04	
EPA 6020	Arsenic	23.7	ug/L	1.0	11/11/20 19:04	
EPA 903.1	Radium-226	-0.141 ± 0.552 (1.17) C:NA	pCi/L		12/02/20 15:55	
EPA 904.0	Radium-228	T:61% 1.16 ± 0.769 (1.45)	pCi/L		12/01/20 17:28	
		C:59% T:70%				
Total Radium Calculation	Total Radium	1.16 ± 1.32 (2.62)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	982	mg/L	20.0	11/11/20 11:28	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 15:05	H3
50272367007	MW-103S					
EPA 9056	Chloride	71.0	mg/L	2.5	11/14/20 21:15	
EPA 9056	Fluoride	0.21	mg/L	0.10	11/14/20 20:25	
EPA 9056	Sulfate	480	mg/L	25.0	11/14/20 22:39	
EPA 6010	Barium	75.6	ug/L	10.0	11/13/20 04:07	
EPA 6010	Boron	839	ug/L	100	11/13/20 04:07	
EPA 6010	Calcium	308000	ug/L	3000	11/13/20 04:34	
EPA 6010	Molybdenum	18.7	ug/L	10.0	11/13/20 04:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272367007	MW-103S					
EPA 6020	Arsenic	18.5	ug/L	1.0	11/11/20 18:04	
EPA 6020	Cobalt	3.0	ug/L	1.0	11/11/20 18:04	
EPA 903.1	Radium-226	0.511 ± 0.323 (0.365)	pCi/L		12/02/20 15:55	
EPA 904.0	Radium-228	C:NA T:84% 1.40 ± 0.787 (1.44)	pCi/L		12/01/20 17:28	
		C:62% T:82%				
Total Radium Calculation	Total Radium	1.91 ± 1.11 (1.81)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	1410	mg/L	20.0	11/11/20 11:28	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	11/09/20 15:06	H3
50272367008	MW-103I					
EPA 9056	Chloride	122	mg/L	25.0	11/16/20 14:03	
EPA 9056	Fluoride	0.18	mg/L	0.10	11/14/20 23:29	
EPA 9056	Sulfate	18.0	mg/L	0.25	11/14/20 23:29	
EPA 6010	Barium	225	ug/L	10.0	11/13/20 04:22	
EPA 6010	Boron	270	ug/L	100	11/13/20 04:22	
EPA 6010	Calcium	223000	ug/L	2000	11/13/20 04:45	
EPA 6010	Chromium	19.2	ug/L	10.0	11/13/20 04:22	
EPA 6010	Lead	11.6	ug/L	10.0	11/18/20 00:36	
EPA 6020	Antimony	1.6	ug/L	1.0	11/11/20 19:17	
EPA 6020	Arsenic	7.4	ug/L	1.0	11/11/20 19:17	
EPA 6020	Beryllium	0.26	ug/L	0.20	11/11/20 19:17	
EPA 6020	Cobalt	6.6	ug/L	1.0	11/11/20 19:17	
EPA 903.1	Radium-226	1.06 ± 0.578 (0.633)	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	C:NA T:76% 1.22 ± 0.751 (1.41)	pCi/L		12/01/20 17:30	
		C:60% T:82%				
Total Radium Calculation	Total Radium	2.28 ± 1.33 (2.04)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	476	mg/L	10.0	11/11/20 14:18	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/09/20 15:08	H3
50272367009	MW-103D					
EPA 9056	Chloride	133	mg/L	25.0	11/16/20 14:20	
EPA 9056	Fluoride	0.15	mg/L	0.10	11/15/20 00:03	
EPA 9056	Sulfate	24.7	mg/L	0.25	11/15/20 00:03	
EPA 6010	Barium	259	ug/L	10.0	11/13/20 04:25	
EPA 6010	Boron	328	ug/L	100	11/13/20 04:25	
EPA 6010	Calcium	81000	ug/L	1000	11/13/20 04:25	
EPA 6020	Antimony	16.4	ug/L	1.0	11/11/20 19:21	

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272367009	MW-103D					
EPA 6020	Arsenic	2.1	ug/L	1.0	11/11/20 19:21	
EPA 903.1	Radium-226	0.936 ± 0.483 (0.405) C:NA T:75%	pCi/L		12/02/20 15:40	
EPA 904.0	Radium-228	1.38 ± 0.723 (1.26) C:64% T:73%	pCi/L		12/01/20 17:31	
Total Radium Calculation	Total Radium	2.32 ± 1.21 (1.67)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	495	mg/L	10.0	11/11/20 14:18	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/09/20 15:10	H3
50272367010	MW-104S					
EPA 9056	Chloride	120	mg/L	2.5	11/15/20 00:53	
EPA 9056	Fluoride	0.19	mg/L	0.10	11/15/20 00:37	
EPA 9056	Sulfate	282	mg/L	25.0	11/15/20 01:10	
EPA 6010	Barium	47.0	ug/L	10.0	11/13/20 04:27	
EPA 6010	Boron	1720	ug/L	100	11/13/20 04:27	
EPA 6010	Calcium	183000	ug/L	1000	11/13/20 04:27	
EPA 6020	Cobalt	1.0	ug/L	1.0	11/11/20 19:25	
EPA 6020	Selenium	1.4	ug/L	1.0	11/11/20 19:25	
EPA 903.1	Radium-226	0.411 ± 0.427 (0.636) C:NA T:75%	pCi/L		12/02/20 15:55	
EPA 904.0	Radium-228	-0.0277 ± 0.615 (1.45) C:58% T:74%	pCi/L		12/01/20 17:28	
Total Radium Calculation	Total Radium	0.411 ± 1.04 (2.09)	pCi/L		12/03/20 10:19	
SM 2540C	Total Dissolved Solids	918	mg/L	20.0	11/11/20 14:19	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	11/09/20 15:12	H3
50272367011	MW-104D					
EPA 9056	Chloride	108	mg/L	2.5	11/15/20 02:17	
EPA 9056	Fluoride	0.13	mg/L	0.10	11/15/20 02:01	
EPA 9056	Sulfate	377	mg/L	25.0	11/15/20 02:34	
EPA 6010	Barium	57.0	ug/L	10.0	11/13/20 04:29	
EPA 6010	Boron	2200	ug/L	100	11/13/20 04:29	
EPA 6010	Calcium	184000	ug/L	1000	11/13/20 04:29	
EPA 903.1	Radium-226	0.0593 ± 0.386 (0.777) C:NA T:78%	pCi/L		12/02/20 15:55	

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272367011	MW-104D					
EPA 904.0	Radium-228	0.459 ± 0.626 (1.34) C:63% T:83%	pCi/L		12/01/20 17:28	
Total Radium Calculation	Total Radium	0.518 ± 1.01 (2.12)	pCi/L		12/03/20 10:19	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	11/09/20 15:13	H3
50272367012	MW-103S MS					
EPA 903.1	Radium-226	98.85 %REC ± NA (NA) C:NA T:NA%	pCi/L		12/02/20 15:55	
EPA 904.0	Radium-228	111.65 %REC ± NA (NA) C:NA T:NA	pCi/L		12/01/20 17:28	
50272367013	MW-103S MSD					
EPA 903.1	Radium-226	111.99 %REC 12.46 RPD ± NA (NA) C:NA T:NA%	pCi/L		12/02/20 15:55	
EPA 904.0	Radium-228	112.78 %REC 1.00 RPD ± NA (NA) C:NA T:NA	pCi/L		12/01/20 17:28	

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-100S	Lab ID: 50272367001	Collected: 11/04/20 13:06	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	358	mg/L	25.0	100		11/14/20 06:15	16887-00-6	
Fluoride	2.0	mg/L	0.10	1		11/14/20 05:58	16984-48-8	
Sulfate	384	mg/L	25.0	100		11/14/20 06:15	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	41.3	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:53	7440-39-3	
Boron	2060	ug/L	100	1	11/11/20 13:32	11/13/20 03:53	7440-42-8	
Calcium	154000	ug/L	1000	1	11/11/20 13:32	11/13/20 03:53	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:53	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:53	7439-92-1	
Lithium	51.8	ug/L	20.0	1	11/11/20 13:32	11/13/20 03:53	7439-93-2	
Molybdenum	158	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:53	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:34	7440-36-0	
Arsenic	2.8	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:34	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 18:34	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:34	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:34	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1420	mg/L	20.0	1		11/11/20 11:27		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/09/20 14:58		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-100D	Lab ID: 50272367002	Collected: 11/04/20 13:10	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	202	mg/L	25.0	100		11/14/20 07:22	16887-00-6	
Fluoride	0.32	mg/L	0.10	1		11/14/20 07:05	16984-48-8	
Sulfate	635	mg/L	25.0	100		11/14/20 07:22	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	58.7	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:55	7440-39-3	
Boron	8980	ug/L	100	1	11/11/20 13:32	11/13/20 03:55	7440-42-8	
Calcium	215000	ug/L	2000	2	11/11/20 13:32	11/13/20 04:31	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:55	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:55	7439-92-1	
Lithium	69.0	ug/L	20.0	1	11/11/20 13:32	11/13/20 03:55	7439-93-2	
Molybdenum	186	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:55	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:38	7440-36-0	
Arsenic	38.4	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:38	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 18:38	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:38	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:38	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1370	mg/L	20.0	1		11/11/20 11:27		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/09/20 15:00		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-101S	Lab ID: 50272367003	Collected: 11/04/20 10:55	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	106	mg/L	2.5	10		11/14/20 07:55	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		11/14/20 07:39	16984-48-8	
Sulfate	311	mg/L	25.0	100		11/14/20 08:12	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	156	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:58	7440-39-3	
Boron	3830	ug/L	100	1	11/11/20 13:32	11/13/20 03:58	7440-42-8	
Calcium	156000	ug/L	1000	1	11/11/20 13:32	11/13/20 03:58	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:58	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:58	7439-92-1	
Lithium	27.3	ug/L	20.0	1	11/11/20 13:32	11/13/20 03:58	7439-93-2	
Molybdenum	56.6	ug/L	10.0	1	11/11/20 13:32	11/13/20 03:58	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:42	7440-36-0	
Arsenic	23.1	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:42	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 18:42	7440-41-7	
Cobalt	1.6	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:42	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:42	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	848	mg/L	20.0	1		11/11/20 11:27		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/09/20 15:01		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-101D	Lab ID: 50272367004	Collected: 11/04/20 10:04	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	101	mg/L	25.0	100		11/14/20 08:46	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		11/14/20 08:29	16984-48-8	
Sulfate	197	mg/L	25.0	100		11/14/20 08:46	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	53.0	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:00	7440-39-3	
Boron	3260	ug/L	100	1	11/11/20 13:32	11/13/20 04:00	7440-42-8	
Calcium	120000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:00	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:00	7439-92-1	
Lithium	54.3	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:00	7439-93-2	
Molybdenum	116	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:00	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:55	7440-36-0	
Arsenic	4.0	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:55	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 18:55	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:55	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:55	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	712	mg/L	10.0	1		11/11/20 11:27		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 15:02		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: DUP 3	Lab ID: 50272367005	Collected: 11/04/20 08:00	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	112	mg/L	2.5	10		11/14/20 09:19	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		11/14/20 09:03	16984-48-8	
Sulfate	206	mg/L	2.5	10		11/14/20 09:19	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	53.7	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:02	7440-39-3	
Boron	3260	ug/L	100	1	11/11/20 13:32	11/13/20 04:02	7440-42-8	
Calcium	122000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:02	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:02	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:02	7439-92-1	
Lithium	54.3	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:02	7439-93-2	
Molybdenum	118	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:02	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:00	7440-36-0	
Arsenic	4.1	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:00	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:00	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:00	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:00	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	711	mg/L	10.0	1		11/11/20 11:28		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 15:04		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-102D	Lab ID: 50272367006	Collected: 11/04/20 16:40	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	144	mg/L	25.0	100		11/14/20 10:43	16887-00-6	
Fluoride	0.24	mg/L	0.10	1		11/14/20 10:27	16984-48-8	
Sulfate	1040	mg/L	25.0	100		11/14/20 10:43	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	45.2	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:05	7440-39-3	
Boron	10300	ug/L	100	1	11/11/20 13:32	11/13/20 04:05	7440-42-8	
Calcium	177000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:05	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:05	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:05	7439-92-1	
Lithium	58.0	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:05	7439-93-2	
Molybdenum	216	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:05	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	13.7	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:04	7440-36-0	
Arsenic	23.7	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:04	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:04	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:04	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	982	mg/L	20.0	1		11/11/20 11:28		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 15:05		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103S	Lab ID: 50272367007	Collected: 11/04/20 14:20	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	71.0	mg/L	2.5	10		11/14/20 21:15	16887-00-6	
Fluoride	0.21	mg/L	0.10	1		11/14/20 20:25	16984-48-8	
Sulfate	480	mg/L	25.0	100		11/14/20 22:39	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	75.6	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:07	7440-39-3	
Boron	839	ug/L	100	1	11/11/20 13:32	11/13/20 04:07	7440-42-8	
Calcium	308000	ug/L	3000	3	11/11/20 13:32	11/13/20 04:34	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:07	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:07	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:07	7439-93-2	
Molybdenum	18.7	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:07	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:04	7440-36-0	
Arsenic	18.5	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:04	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 18:04	7440-41-7	
Cobalt	3.0	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 18:04	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1410	mg/L	20.0	1		11/11/20 11:28		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.8	Std. Units	0.10	1		11/09/20 15:06		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103I	Lab ID: 50272367008	Collected: 11/04/20 12:05	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	122	mg/L	25.0	100		11/16/20 14:03	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		11/14/20 23:29	16984-48-8	
Sulfate	18.0	mg/L	0.25	1		11/14/20 23:29	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	225	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:22	7440-39-3	
Boron	270	ug/L	100	1	11/11/20 13:32	11/13/20 04:22	7440-42-8	
Calcium	223000	ug/L	2000	2	11/11/20 13:32	11/13/20 04:45	7440-70-2	
Chromium	19.2	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:22	7440-47-3	
Lead	11.6	ug/L	10.0	1	11/17/20 13:26	11/18/20 00:36	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:22	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:22	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.6	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:17	7440-36-0	
Arsenic	7.4	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:17	7440-38-2	
Beryllium	0.26	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:17	7440-41-7	
Cobalt	6.6	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:17	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:17	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	476	mg/L	10.0	1		11/11/20 14:18		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/09/20 15:08		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103D	Lab ID: 50272367009	Collected: 11/04/20 13:50	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	133	mg/L	25.0	100		11/16/20 14:20	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		11/15/20 00:03	16984-48-8	
Sulfate	24.7	mg/L	0.25	1		11/15/20 00:03	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	259	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:25	7440-39-3	
Boron	328	ug/L	100	1	11/11/20 13:32	11/13/20 04:25	7440-42-8	
Calcium	81000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:25	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:25	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:25	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:25	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:25	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	16.4	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:21	7440-36-0	
Arsenic	2.1	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:21	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:21	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:21	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:21	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	495	mg/L	10.0	1		11/11/20 14:18		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/09/20 15:10		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-104S	Lab ID: 50272367010	Collected: 11/04/20 15:50	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	120	mg/L	2.5	10		11/15/20 00:53	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		11/15/20 00:37	16984-48-8	
Sulfate	282	mg/L	25.0	100		11/15/20 01:10	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	47.0	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:27	7440-39-3	
Boron	1720	ug/L	100	1	11/11/20 13:32	11/13/20 04:27	7440-42-8	
Calcium	183000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:27	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:27	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:27	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:27	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:27	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:25	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:25	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:25	7440-41-7	
Cobalt	1.0	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:25	7440-48-4	
Selenium	1.4	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:25	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	918	mg/L	20.0	1		11/11/20 14:19		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.9	Std. Units	0.10	1		11/09/20 15:12		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-104D	Lab ID: 50272367011	Collected: 11/04/20 14:36	Received: 11/05/20 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	108	mg/L	2.5	10		11/15/20 02:17	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		11/15/20 02:01	16984-48-8	
Sulfate	377	mg/L	25.0	100		11/15/20 02:34	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	57.0	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:29	7440-39-3	
Boron	2200	ug/L	100	1	11/11/20 13:32	11/13/20 04:29	7440-42-8	
Calcium	184000	ug/L	1000	1	11/11/20 13:32	11/13/20 04:29	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:29	7440-47-3	
Lead	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:29	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/11/20 13:32	11/13/20 04:29	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/11/20 13:32	11/13/20 04:29	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:30	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:30	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/11/20 19:30	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:30	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/11/20 19:30	7782-49-2	
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		11/09/20 15:13		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch:	592969	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006

METHOD BLANK: 2736160 Matrix: Water

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/13/20 18:12	
Fluoride	mg/L	ND	0.10	11/13/20 18:12	
Sulfate	mg/L	ND	0.25	11/13/20 18:12	

LABORATORY CONTROL SAMPLE: 2736161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	93	80-120	
Fluoride	mg/L	0.5	0.45	91	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736162 2736163

Parameter	Units	50273152001		2736162		2736163		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	76.9	76.9	12.5	12.5	92.0	91.8	120	119	80-120	0	15	
Fluoride	mg/L	0.51	0.51	0.5	0.5	1.0	1.0	100	101	80-120	0	15	
Sulfate	mg/L	554	554	250	250	828	825	109	108	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch: 593114 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50272367007, 50272367008, 50272367009, 50272367010, 50272367011

METHOD BLANK: 2737154 Matrix: Water
 Associated Lab Samples: 50272367007, 50272367008, 50272367009, 50272367010, 50272367011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/14/20 16:26	
Fluoride	mg/L	ND	0.10	11/14/20 16:26	
Sulfate	mg/L	ND	0.25	11/14/20 16:26	

LABORATORY CONTROL SAMPLE: 2737155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.45	91	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2737156 2737157

Parameter	Units	50272367007		50272367007		50272367007		50272367007		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	71.0	12.5	12.5	84.8	84.8	110	110	80-120	0	15		
Fluoride	mg/L	0.21	0.5	0.5	0.71	0.71	99	99	80-120	0	15		
Sulfate	mg/L	480	250	250	733	731	101	100	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2737158 2737159

Parameter	Units	50273293001		50273293001		50273293001		50273293001		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	223	125	125	347	347	99	99	80-120	0	15		
Fluoride	mg/L	5.5	5	5	10.4	10.5	100	101	80-120	1	15		
Sulfate	mg/L	862	250	250	1130	1120	105	104	80-120	0	15		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch:	591465	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011

METHOD BLANK: 2728619 Matrix: Water
 Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/13/20 03:20	
Boron	ug/L	ND	100	11/13/20 03:20	
Calcium	ug/L	ND	1000	11/13/20 03:20	
Chromium	ug/L	ND	10.0	11/13/20 03:20	
Lead	ug/L	ND	10.0	11/13/20 03:20	
Lithium	ug/L	ND	20.0	11/13/20 03:20	
Molybdenum	ug/L	ND	10.0	11/13/20 03:20	

LABORATORY CONTROL SAMPLE: 2728620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	997	100	80-120	
Calcium	ug/L	10000	9960	100	80-120	
Chromium	ug/L	1000	1000	100	80-120	
Lead	ug/L	1000	2070	207	80-120 L3	
Lithium	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2728621 2728622

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Barium	ug/L	75.6	1000	1000	1080	1060	100	98	75-125	2	20		
Boron	ug/L	839	1000	1000	1890	1840	105	100	75-125	2	20		
Calcium	ug/L	308000	10000	10000	311000	298000	36	-94	75-125	4	20	P6	
Chromium	ug/L	ND	1000	1000	973	959	97	96	75-125	1	20		
Lead	ug/L	ND	1000	1000	967	950	97	95	75-125	2	20		
Lithium	ug/L	ND	1000	1000	1040	1030	103	102	75-125	1	20		
Molybdenum	ug/L	18.7	1000	1000	1050	1040	104	102	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch: 593436

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367008

METHOD BLANK: 2738086

Matrix: Water

Associated Lab Samples: 50272367008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	11/17/20 23:41	

LABORATORY CONTROL SAMPLE: 2738087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	960	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738088 2738089

Parameter	Units	50273288004		2738088		2738089		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Lead	ug/L	ND	1000	1000	944	950	94	95	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch:	591667	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011		

METHOD BLANK:	2730146	Matrix:	Water
Associated Lab Samples:	50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/11/20 17:55	
Arsenic	ug/L	ND	1.0	11/11/20 17:55	
Beryllium	ug/L	ND	0.20	11/11/20 17:55	
Cobalt	ug/L	ND	1.0	11/11/20 17:55	
Selenium	ug/L	ND	1.0	11/11/20 17:55	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.6	104	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Beryllium	ug/L	40	39.8	100	80-120	
Cobalt	ug/L	40	41.1	103	80-120	
Selenium	ug/L	40	40.0	100	80-120	

Parameter	Units	2730148		2730149		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	ug/L	ND	40	42.6	42.4	106	106	75-125	0	20	
Arsenic	ug/L	18.5	40	55.0	55.8	91	93	75-125	1	20	
Beryllium	ug/L	ND	40	37.4	37.6	93	94	75-125	1	20	
Cobalt	ug/L	3.0	40	39.7	39.8	92	92	75-125	0	20	
Selenium	ug/L	ND	40	36.4	36.9	91	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch: 592254	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007

METHOD BLANK: 2732285 Matrix: Water
Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 11:21	

LABORATORY CONTROL SAMPLE: 2732286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 2732287

Parameter	Units	50272337007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	244	232	5	10	

SAMPLE DUPLICATE: 2732288

Parameter	Units	50272367007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1410	1410	0	10	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch: 592255	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367008, 50272367009, 50272367010

METHOD BLANK: 2732289 Matrix: Water

Associated Lab Samples: 50272367008, 50272367009, 50272367010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 14:17	

LABORATORY CONTROL SAMPLE: 2732290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 2732291

Parameter	Units	50272458012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	353	6	10	

SAMPLE DUPLICATE: 2732292

Parameter	Units	50272473003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	302	297	2	10	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch:	591869	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011

SAMPLE DUPLICATE: 2730730

Parameter	Units	50272362005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2730731

Parameter	Units	50272367007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.7	1	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-100S **Lab ID: 50272367001** Collected: 11/04/20 13:06 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.974 ± 0.571 (0.655) C:NA T:77%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.941 ± 0.718 (1.41) C:55% T:79%	pCi/L	12/01/20 17:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.92 ± 1.29 (2.07)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-100D **Lab ID: 50272367002** Collected: 11/04/20 13:10 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.794 ± 0.482 (0.622) C:NA T:86%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.34 ± 0.760 (1.39) C:62% T:77%	pCi/L	12/01/20 17:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.13 ± 1.24 (2.01)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: PZ-101S **Lab ID: 50272367003** Collected: 11/04/20 10:55 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.394 ± 0.309 (0.362) C:NA T:83%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.33 ± 0.664 (1.11) C:60% T:79%	pCi/L	12/01/20 17:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.72 ± 0.973 (1.47)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: PZ-101D Lab ID: 50272367004 Collected: 11/04/20 10:04 Received: 11/05/20 15:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.12 ± 0.477 (0.132) C:NA T:83%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.737 ± 0.677 (1.39) C:58% T:82%	pCi/L	12/01/20 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.86 ± 1.15 (1.52)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: DUP 3 **Lab ID: 50272367005** Collected: 11/04/20 08:00 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.167 ± 0.289 (0.517) C:NA T:82%	pCi/L	12/02/20 15:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.424 ± 0.542 (1.15) C:60% T:76%	pCi/L	12/01/20 15:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.591 ± 0.831 (1.67)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-102D **Lab ID: 50272367006** Collected: 11/04/20 16:40 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.141 ± 0.552 (1.17) C:NA T:61%	pCi/L	12/02/20 15:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.16 ± 0.769 (1.45) C:59% T:70%	pCi/L	12/01/20 17:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.16 ± 1.32 (2.62)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103S **Lab ID: 50272367007** Collected: 11/04/20 14:20 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.511 ± 0.323 (0.365) C:NA T:84%	pCi/L	12/02/20 15:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.40 ± 0.787 (1.44) C:62% T:82%	pCi/L	12/01/20 17:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.91 ± 1.11 (1.81)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103I **Lab ID: 50272367008** Collected: 11/04/20 12:05 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.06 ± 0.578 (0.633) C:NA T:76%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.22 ± 0.751 (1.41) C:60% T:82%	pCi/L	12/01/20 17:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.28 ± 1.33 (2.04)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103D **Lab ID: 50272367009** Collected: 11/04/20 13:50 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.936 ± 0.483 (0.405) C:NA T:75%	pCi/L	12/02/20 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.38 ± 0.723 (1.26) C:64% T:73%	pCi/L	12/01/20 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.32 ± 1.21 (1.67)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-104S **Lab ID: 50272367010** Collected: 11/04/20 15:50 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.411 ± 0.427 (0.636) C:NA T:75%	pCi/L	12/02/20 15:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0277 ± 0.615 (1.45) C:58% T:74%	pCi/L	12/01/20 17:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.411 ± 1.04 (2.09)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-104D **Lab ID: 50272367011** Collected: 11/04/20 14:36 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0593 ± 0.386 (0.777) C:NA T:78%	pCi/L	12/02/20 15:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.459 ± 0.626 (1.34) C:63% T:83%	pCi/L	12/01/20 17:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.518 ± 1.01 (2.12)	pCi/L	12/03/20 10:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Sample: MW-103S MS **Lab ID: 50272367012** Collected: 11/04/20 14:20 Received: 11/05/20 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	98.85 %REC ± NA (NA) C:NA T:NA%	pCi/L	12/02/20 15:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	111.65 %REC ± NA (NA) C:NA T:NA	pCi/L	12/01/20 17:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	111.99 %REC 12.46 RPD ± NA (NA) C:NA T:NA%	pCi/L	12/02/20 15:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	112.78 %REC 1.00 RPD ± NA (NA) C:NA T:NA	pCi/L	12/01/20 17:28	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch: 422659 Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011, 50272367012, 50272367013

METHOD BLANK: 2042840 Matrix: Water

Associated Lab Samples: 50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011, 50272367012, 50272367013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0865 ± 0.208 (0.402) C:NA T:79%	pCi/L	12/02/20 15:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

QC Batch:	422661	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011, 50272367012, 50272367013		

METHOD BLANK:	2042845	Matrix:	Water
Associated Lab Samples:	50272367001, 50272367002, 50272367003, 50272367004, 50272367005, 50272367006, 50272367007, 50272367008, 50272367009, 50272367010, 50272367011, 50272367012, 50272367013		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.443 ± 0.426 (0.870) C:64% T:81%	pCi/L	12/01/20 14:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272367001	PZ-100S	EPA 9056	592969		
50272367002	PZ-100D	EPA 9056	592969		
50272367003	PZ-101S	EPA 9056	592969		
50272367004	PZ-101D	EPA 9056	592969		
50272367005	DUP 3	EPA 9056	592969		
50272367006	MW-102D	EPA 9056	592969		
50272367007	MW-103S	EPA 9056	593114		
50272367008	MW-103I	EPA 9056	593114		
50272367009	MW-103D	EPA 9056	593114		
50272367010	MW-104S	EPA 9056	593114		
50272367011	MW-104D	EPA 9056	593114		
50272367001	PZ-100S	EPA 3010	591465	EPA 6010	592813
50272367002	PZ-100D	EPA 3010	591465	EPA 6010	592813
50272367003	PZ-101S	EPA 3010	591465	EPA 6010	592813
50272367004	PZ-101D	EPA 3010	591465	EPA 6010	592813
50272367005	DUP 3	EPA 3010	591465	EPA 6010	592813
50272367006	MW-102D	EPA 3010	591465	EPA 6010	592813
50272367007	MW-103S	EPA 3010	591465	EPA 6010	592813
50272367008	MW-103I	EPA 3010	591465	EPA 6010	592813
50272367008	MW-103I	EPA 3010	593436	EPA 6010	593698
50272367009	MW-103D	EPA 3010	591465	EPA 6010	592813
50272367010	MW-104S	EPA 3010	591465	EPA 6010	592813
50272367011	MW-104D	EPA 3010	591465	EPA 6010	592813
50272367001	PZ-100S	EPA 200.2	591667	EPA 6020	591950
50272367002	PZ-100D	EPA 200.2	591667	EPA 6020	591950
50272367003	PZ-101S	EPA 200.2	591667	EPA 6020	591950
50272367004	PZ-101D	EPA 200.2	591667	EPA 6020	591950
50272367005	DUP 3	EPA 200.2	591667	EPA 6020	591950
50272367006	MW-102D	EPA 200.2	591667	EPA 6020	591950
50272367007	MW-103S	EPA 200.2	591667	EPA 6020	591950
50272367008	MW-103I	EPA 200.2	591667	EPA 6020	591950
50272367009	MW-103D	EPA 200.2	591667	EPA 6020	591950
50272367010	MW-104S	EPA 200.2	591667	EPA 6020	591950
50272367011	MW-104D	EPA 200.2	591667	EPA 6020	591950
50272367001	PZ-100S	EPA 903.1	422659		
50272367002	PZ-100D	EPA 903.1	422659		
50272367003	PZ-101S	EPA 903.1	422659		
50272367004	PZ-101D	EPA 903.1	422659		
50272367005	DUP 3	EPA 903.1	422659		
50272367006	MW-102D	EPA 903.1	422659		
50272367007	MW-103S	EPA 903.1	422659		
50272367008	MW-103I	EPA 903.1	422659		
50272367009	MW-103D	EPA 903.1	422659		
50272367010	MW-104S	EPA 903.1	422659		
50272367011	MW-104D	EPA 903.1	422659		
50272367012	MW-103S MS	EPA 903.1	422659		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272367013	MW-103S MSD	EPA 903.1	422659		
50272367001	PZ-100S	EPA 904.0	422661		
50272367002	PZ-100D	EPA 904.0	422661		
50272367003	PZ-101S	EPA 904.0	422661		
50272367004	PZ-101D	EPA 904.0	422661		
50272367005	DUP 3	EPA 904.0	422661		
50272367006	MW-102D	EPA 904.0	422661		
50272367007	MW-103S	EPA 904.0	422661		
50272367008	MW-103I	EPA 904.0	422661		
50272367009	MW-103D	EPA 904.0	422661		
50272367010	MW-104S	EPA 904.0	422661		
50272367011	MW-104D	EPA 904.0	422661		
50272367012	MW-103S MS	EPA 904.0	422661		
50272367013	MW-103S MSD	EPA 904.0	422661		
50272367001	PZ-100S	Total Radium Calculation	425616		
50272367002	PZ-100D	Total Radium Calculation	425616		
50272367003	PZ-101S	Total Radium Calculation	425616		
50272367004	PZ-101D	Total Radium Calculation	425616		
50272367005	DUP 3	Total Radium Calculation	425616		
50272367006	MW-102D	Total Radium Calculation	425616		
50272367007	MW-103S	Total Radium Calculation	425616		
50272367008	MW-103I	Total Radium Calculation	425616		
50272367009	MW-103D	Total Radium Calculation	425616		
50272367010	MW-104S	Total Radium Calculation	425616		
50272367011	MW-104D	Total Radium Calculation	425616		
50272367001	PZ-100S	SM 2540C	592254		
50272367002	PZ-100D	SM 2540C	592254		
50272367003	PZ-101S	SM 2540C	592254		
50272367004	PZ-101D	SM 2540C	592254		
50272367005	DUP 3	SM 2540C	592254		
50272367006	MW-102D	SM 2540C	592254		
50272367007	MW-103S	SM 2540C	592254		
50272367008	MW-103I	SM 2540C	592255		
50272367009	MW-103D	SM 2540C	592255		
50272367010	MW-104S	SM 2540C	592255		
50272367001	PZ-100S	SM 4500-H+B	591869		
50272367002	PZ-100D	SM 4500-H+B	591869		
50272367003	PZ-101S	SM 4500-H+B	591869		
50272367004	PZ-101D	SM 4500-H+B	591869		
50272367005	DUP 3	SM 4500-H+B	591869		
50272367006	MW-102D	SM 4500-H+B	591869		
50272367007	MW-103S	SM 4500-H+B	591869		
50272367008	MW-103I	SM 4500-H+B	591869		
50272367009	MW-103D	SM 4500-H+B	591869		
50272367010	MW-104S	SM 4500-H+B	591869		
50272367011	MW-104D	SM 4500-H+B	591869		

REPORT OF LABORATORY ANALYSIS

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WO#: 50272367



50272367

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Information:

Section C
Invoice Information:

Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.breting@atcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding Street Profile 1 Report 2	Pace Project Manager: donna.spyker@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6246/3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL QL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Analyses Test	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad226/Rad228														
						DATE	TIME	DATE	TIME			Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N													
1	M-4			WT																																		
2	PZ-100S			WT				11-4	13:06																												001	
3	PZ-100D			WT				11-4	13:10																												002	
4	PZ-101S			WT				11-4	10:55																												003	
5	PZ-101D			WT				11-4	10:54																												004	
6	DUP 3			WT				11-4																													005	
7	Field Blank 2			WT																																		
8	MS3			WT				11-4	14:20																												012	
9	MSD3			WT				11-4	14:20																												013	
10	Extra			WT																																		
11	MW-102S			WT																																		
12	MW-102D			WT				11-4	16:49																												006	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kahn Tompac	11/5/20	15:00	[Signature]	11/5/20	14:20	
				[Signature]	11/5/20	15:00	548822

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Andy Zashanski				
SIGNATURE of SAMPLER:	[Signature]				
DATE Signed: 11-4-20					



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: ATC Group Services	Report To: Mark Breting	Attention:	
Address: 7988 Centerpoint Drive Indianapolis, IN 46256	Copy To:	Company Name:	
Email: mark.breting@atcassociates.com	Purchase Order #:	Address:	Regulatory Agency
Phone: NONE Fax:	Project Name: Harding Street Profile 1 Report 2	Pace Quote:	
Requested Due Date:	Project #:	Pace Project Manager: donna.spyker@pacelabs.com	State / Location
		Pace Profile #: 6246/3	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyzes Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)					
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad226/Rad228						
						DATE	TIME	DATE	TIME																					
13	MW-103S	WT					11-4	14:20	5	X	X							X	X	X	X								007	
14	MW-103I	WT					1-4	12:05	5	X	X							X	X	X	X								008	
15	MW-103D	WT					1-4	13:50	5	X	X							X	X	X	X								009	
16	MW-104S	WT					11-4	15:50	5	X	X							X	X	X	X								010	
17	MW-104D	WT					11-4	14:16	4	X	X							X	X	X	X								011	
18																														
19																														
20																														
21																														
22																														
23																														
24																														

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
		Steven Barajas		11/5/20	15:00	Steven Barajas		11/5/20	14:20				
		John Doe		11/5/20	15:00	John Doe		11/5/20	15:00	SAC ESUA			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Steven Barajas					
SIGNATURE of SAMPLER: <i>[Signature]</i>					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MW 1/5/20 1545

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: SEE COMMENTS If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>				

COMMENTS: 0.5/0.4 1.0/0.9 0.6/0.5 0.9/0.8 0.8/0.7 0.3/0.2
LIMITED SAMPLE VOLUME REQD FOR MW-104D BPTM REQD EMPTY, 850ML REQD IN 1 BPTM CONTAINER
PICTURES TAKEN

Sample Container Count

Sample Line Item	WGFLU	R	SBS DI BK Kit	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10				
																															1			
2															2	1	1	1										WT	✓					
3															1	1	1																	
4															1	1	1																	
5															1	1	1																	
6															1	1	1																	
7																																		
8															2	1	1	1									WT	✓						
9															2	1	1	1									WT	✓						
10																																		
11																																		
12															2	1	1	1									WT	✓						

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGFLU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFLU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H						Matrix	pH <2	pH >9	pH >10	
																																	SBS
1															6	3	3	3													5	✓	
2															2	1	1	1															
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL. HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WT	Water
						SL	Solid
						NAL	Non-aqueous liquid
						WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 3
Pace Project No.: 50272516

Dear Mr. Breting:

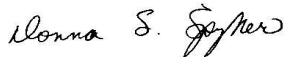
Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272516001	DUP 4	Water	11/04/20 08:00	11/06/20 13:05
50272516002	P2 PZ-1D	Water	11/05/20 15:10	11/06/20 13:05
50272516003	P3 PZ-1D	Water	11/05/20 10:10	11/06/20 13:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272516001	DUP 4	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272516002	P2 PZ-1D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272516003	P3 PZ-1D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272516001	DUP 4					
EPA 9056	Chloride	214	mg/L	25.0	11/17/20 23:45	
EPA 9056	Fluoride	1.5	mg/L	0.10	11/17/20 23:26	
EPA 9056	Sulfate	134	mg/L	25.0	11/17/20 23:45	
EPA 6010	Barium	61.1	ug/L	10.0	11/13/20 01:44	
EPA 6010	Boron	1420	ug/L	100	11/13/20 01:44	
EPA 6010	Calcium	132000	ug/L	1000	11/13/20 01:44	
EPA 6010	Lithium	35.0	ug/L	20.0	11/13/20 01:44	
EPA 6010	Molybdenum	58.2	ug/L	10.0	11/13/20 01:44	
EPA 6010	Iron, Dissolved	320	ug/L	100	11/17/20 00:59	
EPA 6010	Lithium, Dissolved	34.7	ug/L	20.0	11/17/20 00:59	
EPA 6010	Manganese, Dissolved	227	ug/L	10.0	11/17/20 00:59	
EPA 6010	Molybdenum, Dissolved	58.1	ug/L	10.0	11/17/20 00:59	
EPA 6020	Arsenic	49.4	ug/L	1.0	11/12/20 00:48	
SM 2540C	Total Dissolved Solids	892	mg/L	20.0	11/11/20 14:04	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/09/20 16:01	H3
50272516002	P2 PZ-1D					
EPA 9056	Chloride	150	mg/L	25.0	11/18/20 00:17	
EPA 9056	Fluoride	0.17	mg/L	0.10	11/18/20 00:01	
EPA 9056	Sulfate	949	mg/L	25.0	11/18/20 00:17	
EPA 6010	Barium	320	ug/L	10.0	11/13/20 01:50	
EPA 6010	Boron	11800	ug/L	100	11/13/20 01:50	
EPA 6010	Calcium	429000	ug/L	5000	11/13/20 02:48	
EPA 6010	Chromium	68.9	ug/L	10.0	11/13/20 01:50	
EPA 6010	Lead	90.6	ug/L	10.0	11/13/20 01:50	
EPA 6010	Lithium	143	ug/L	20.0	11/13/20 01:50	
EPA 6010	Molybdenum	580	ug/L	10.0	11/13/20 01:50	
EPA 6010	Iron, Dissolved	595	ug/L	100	11/17/20 01:01	
EPA 6010	Lithium, Dissolved	126	ug/L	20.0	11/17/20 01:01	
EPA 6010	Manganese, Dissolved	322	ug/L	10.0	11/17/20 01:01	
EPA 6010	Molybdenum, Dissolved	772	ug/L	10.0	11/17/20 01:01	
EPA 6020	Antimony	7.9	ug/L	5.0	11/12/20 00:53	
EPA 6020	Arsenic	397	ug/L	5.0	11/12/20 00:53	
EPA 6020	Beryllium	7.5	ug/L	1.0	11/12/20 00:53	
EPA 6020	Cobalt	26.9	ug/L	5.0	11/12/20 00:53	
EPA 6020	Selenium	5.1	ug/L	5.0	11/12/20 00:53	
SM 2540C	Total Dissolved Solids	1760	mg/L	20.0	11/12/20 10:39	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	11/09/20 16:03	H3
50272516003	P3 PZ-1D					
EPA 9056	Chloride	239	mg/L	25.0	11/18/20 01:23	
EPA 9056	Fluoride	1.5	mg/L	0.10	11/18/20 01:07	
EPA 9056	Sulfate	149	mg/L	25.0	11/18/20 01:23	
EPA 6010	Barium	60.1	ug/L	10.0	11/13/20 01:53	
EPA 6010	Boron	1450	ug/L	100	11/13/20 01:53	
EPA 6010	Calcium	130000	ug/L	1000	11/13/20 01:53	
EPA 6010	Lithium	32.7	ug/L	20.0	11/13/20 01:53	
EPA 6010	Molybdenum	59.6	ug/L	10.0	11/13/20 01:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272516003	P3 PZ-1D					
EPA 6010	Iron, Dissolved	320	ug/L	100	11/17/20 01:04	
EPA 6010	Lithium, Dissolved	33.8	ug/L	20.0	11/17/20 01:04	
EPA 6010	Manganese, Dissolved	227	ug/L	10.0	11/17/20 01:04	
EPA 6010	Molybdenum, Dissolved	61.5	ug/L	10.0	11/17/20 01:04	
EPA 6020	Arsenic	49.5	ug/L	1.0	11/12/20 00:58	
SM 2540C	Total Dissolved Solids	894	mg/L	10.0	11/12/20 10:39	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/09/20 16:04	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Sample: DUP 4	Lab ID: 50272516001	Collected: 11/04/20 08:00	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	214	mg/L	25.0	100		11/17/20 23:45	16887-00-6	
Fluoride	1.5	mg/L	0.10	1		11/17/20 23:26	16984-48-8	
Sulfate	134	mg/L	25.0	100		11/17/20 23:45	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	61.1	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:44	7440-39-3	
Boron	1420	ug/L	100	1	11/12/20 06:30	11/13/20 01:44	7440-42-8	
Calcium	132000	ug/L	1000	1	11/12/20 06:30	11/13/20 01:44	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:44	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:44	7439-92-1	
Lithium	35.0	ug/L	20.0	1	11/12/20 06:30	11/13/20 01:44	7439-93-2	
Molybdenum	58.2	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:44	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	320	ug/L	100	1	11/14/20 06:40	11/17/20 00:59	7439-89-6	
Lithium, Dissolved	34.7	ug/L	20.0	1	11/14/20 06:40	11/17/20 00:59	7439-93-2	
Manganese, Dissolved	227	ug/L	10.0	1	11/14/20 06:40	11/17/20 00:59	7439-96-5	
Molybdenum, Dissolved	58.1	ug/L	10.0	1	11/14/20 06:40	11/17/20 00:59	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:48	7440-36-0	
Arsenic	49.4	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:48	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/12/20 00:48	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:48	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:48	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	892	mg/L	20.0	1		11/11/20 14:04		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/09/20 16:01		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Sample: P2 PZ-1D	Lab ID: 50272516002	Collected: 11/05/20 15:10	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	150	mg/L	25.0	100		11/18/20 00:17	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		11/18/20 00:01	16984-48-8	
Sulfate	949	mg/L	25.0	100		11/18/20 00:17	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	320	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:50	7440-39-3	
Boron	11800	ug/L	100	1	11/12/20 06:30	11/13/20 01:50	7440-42-8	
Calcium	429000	ug/L	5000	5	11/12/20 06:30	11/13/20 02:48	7440-70-2	
Chromium	68.9	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:50	7440-47-3	
Lead	90.6	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:50	7439-92-1	
Lithium	143	ug/L	20.0	1	11/12/20 06:30	11/13/20 01:50	7439-93-2	
Molybdenum	580	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:50	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	595	ug/L	100	1	11/14/20 06:40	11/17/20 01:01	7439-89-6	
Lithium, Dissolved	126	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:01	7439-93-2	
Manganese, Dissolved	322	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:01	7439-96-5	
Molybdenum, Dissolved	772	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:01	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	7.9	ug/L	5.0	1	11/09/20 11:29	11/12/20 00:53	7440-36-0	
Arsenic	397	ug/L	5.0	1	11/09/20 11:29	11/12/20 00:53	7440-38-2	
Beryllium	7.5	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:53	7440-41-7	
Cobalt	26.9	ug/L	5.0	1	11/09/20 11:29	11/12/20 00:53	7440-48-4	
Selenium	5.1	ug/L	5.0	1	11/09/20 11:29	11/12/20 00:53	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1760	mg/L	20.0	1		11/12/20 10:39		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		11/09/20 16:03		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Sample: P3 PZ-1D	Lab ID: 50272516003	Collected: 11/05/20 10:10	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	239	mg/L	25.0	100		11/18/20 01:23	16887-00-6	
Fluoride	1.5	mg/L	0.10	1		11/18/20 01:07	16984-48-8	
Sulfate	149	mg/L	25.0	100		11/18/20 01:23	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	60.1	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:53	7440-39-3	
Boron	1450	ug/L	100	1	11/12/20 06:30	11/13/20 01:53	7440-42-8	
Calcium	130000	ug/L	1000	1	11/12/20 06:30	11/13/20 01:53	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:53	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:53	7439-92-1	
Lithium	32.7	ug/L	20.0	1	11/12/20 06:30	11/13/20 01:53	7439-93-2	
Molybdenum	59.6	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:53	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	320	ug/L	100	1	11/14/20 06:40	11/17/20 01:04	7439-89-6	
Lithium, Dissolved	33.8	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:04	7439-93-2	
Manganese, Dissolved	227	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:04	7439-96-5	
Molybdenum, Dissolved	61.5	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:04	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:58	7440-36-0	
Arsenic	49.5	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:58	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/12/20 00:58	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:58	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 00:58	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	894	mg/L	10.0	1		11/12/20 10:39		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/09/20 16:04		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch: 593499	Analysis Method: EPA 9056
QC Batch Method: EPA 9056	Analysis Description: 9056 IC Anions
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516001, 50272516002, 50272516003

METHOD BLANK: 2738328 Matrix: Water

Associated Lab Samples: 50272516001, 50272516002, 50272516003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/17/20 22:04	
Fluoride	mg/L	ND	0.10	11/17/20 22:04	
Sulfate	mg/L	ND	0.25	11/17/20 22:04	

LABORATORY CONTROL SAMPLE: 2738329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738330 2738331

Parameter	Units	50272520004		2738330		2738331		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	289	289	125	125	444	435	124	117	80-120	2	15	M6
Fluoride	mg/L	0.94	0.94	0.5	0.5	1.4	1.4	98	99	80-120	0	15	
Sulfate	mg/L	450	450	250	250	738	720	115	108	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3
Pace Project No.: 50272516

QC Batch: 591727 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50272516001, 50272516002, 50272516003

METHOD BLANK: 2730302 Matrix: Water
Associated Lab Samples: 50272516001, 50272516002, 50272516003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/13/20 01:42	
Boron	ug/L	ND	100	11/13/20 01:42	
Calcium	ug/L	ND	1000	11/13/20 01:42	
Chromium	ug/L	ND	10.0	11/13/20 01:42	
Lead	ug/L	ND	10.0	11/13/20 01:42	
Lithium	ug/L	ND	20.0	11/13/20 01:42	
Molybdenum	ug/L	ND	10.0	11/13/20 01:42	

LABORATORY CONTROL SAMPLE: 2730303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	998	100	80-120	
Boron	ug/L	1000	979	98	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	996	100	80-120	
Lead	ug/L	1000	974	97	80-120	
Lithium	ug/L	1000	995	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730304 2730305

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272520004 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	33.8	1000	1000	1040	1030	101	99	75-125	2	20
Boron	ug/L	9600	1000	1000	10900	10800	134	122	75-125	1	20 P6
Calcium	ug/L	181000	10000	10000	193000	192000	119	111	75-125	0	20
Chromium	ug/L	ND	1000	1000	980	971	98	97	75-125	1	20
Lead	ug/L	ND	1000	1000	968	955	97	95	75-125	1	20
Lithium	ug/L	69.3	1000	1000	1100	1080	103	101	75-125	2	20
Molybdenum	ug/L	722	1000	1000	1780	1750	106	103	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch:	592557	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516001, 50272516002, 50272516003

METHOD BLANK: 2733852 Matrix: Water

Associated Lab Samples: 50272516001, 50272516002, 50272516003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	100	11/17/20 00:45	
Lithium, Dissolved	ug/L	ND	20.0	11/17/20 00:45	
Manganese, Dissolved	ug/L	ND	10.0	11/17/20 00:45	
Molybdenum, Dissolved	ug/L	ND	10.0	11/17/20 00:45	

LABORATORY CONTROL SAMPLE: 2733853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9580	96	80-120	
Lithium, Dissolved	ug/L	1000	990	99	80-120	
Manganese, Dissolved	ug/L	1000	959	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733854 2733855

Parameter	Units	50272524009		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Iron, Dissolved	ug/L	ND	10000	10000	9110	9260	91	92	75-125	2	20		
Lithium, Dissolved	ug/L	169	1000	1000	1200	1220	103	105	75-125	2	20		
Manganese, Dissolved	ug/L	125	1000	1000	1050	1060	92	94	75-125	1	20		
Molybdenum, Dissolved	ug/L	820	1000	1000	1840	1860	102	104	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch:	591671	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516001, 50272516002, 50272516003

METHOD BLANK: 2730160 Matrix: Water

Associated Lab Samples: 50272516001, 50272516002, 50272516003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/11/20 16:45	
Arsenic	ug/L	ND	1.0	11/11/20 16:45	
Beryllium	ug/L	ND	0.20	11/11/20 16:45	
Cobalt	ug/L	ND	1.0	11/11/20 16:45	
Selenium	ug/L	ND	1.0	11/11/20 16:45	

LABORATORY CONTROL SAMPLE: 2730161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.8	102	80-120	
Arsenic	ug/L	40	39.2	98	80-120	
Beryllium	ug/L	40	39.8	99	80-120	
Cobalt	ug/L	40	41.2	103	80-120	
Selenium	ug/L	40	40.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730162 2730163

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272412004 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	<1.0	40	40	41.2	41.2	103	103	75-125	0	20		
Arsenic	ug/L	<1.0	40	40	38.3	38.2	95	95	75-125	0	20		
Beryllium	ug/L	<0.20	40	40	39.8	40.1	99	100	75-125	1	20		
Cobalt	ug/L	<1.0	40	40	39.9	40.1	99	100	75-125	0	20		
Selenium	ug/L	<1.0	40	40	39.6	40.0	98	99	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch: 592257

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516001

METHOD BLANK: 2732297

Matrix: Water

Associated Lab Samples: 50272516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 14:03	

LABORATORY CONTROL SAMPLE: 2732298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 2732299

Parameter	Units	50272506004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1070	1110	4	10	

SAMPLE DUPLICATE: 2733517

Parameter	Units	50272391002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	918	928	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch: 592564

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516002, 50272516003

METHOD BLANK: 2733880

Matrix: Water

Associated Lab Samples: 50272516002, 50272516003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 10:33	

LABORATORY CONTROL SAMPLE: 2733881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 2733882

Parameter	Units	50272477006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	848	852	0	10	

SAMPLE DUPLICATE: 2733883

Parameter	Units	50272506002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	197	10	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

QC Batch:	591884	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272516001, 50272516002, 50272516003

SAMPLE DUPLICATE: 2730786

Parameter	Units	50272516001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2730787

Parameter	Units	50272235002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

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QUALIFIERS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272516001	DUP 4	EPA 9056	593499		
50272516002	P2 PZ-1D	EPA 9056	593499		
50272516003	P3 PZ-1D	EPA 9056	593499		
50272516001	DUP 4	EPA 3010	591727	EPA 6010	592812
50272516002	P2 PZ-1D	EPA 3010	591727	EPA 6010	592812
50272516003	P3 PZ-1D	EPA 3010	591727	EPA 6010	592812
50272516001	DUP 4	EPA 3010	592557	EPA 6010	593416
50272516002	P2 PZ-1D	EPA 3010	592557	EPA 6010	593416
50272516003	P3 PZ-1D	EPA 3010	592557	EPA 6010	593416
50272516001	DUP 4	EPA 200.2	591671	EPA 6020	591952
50272516002	P2 PZ-1D	EPA 200.2	591671	EPA 6020	591952
50272516003	P3 PZ-1D	EPA 200.2	591671	EPA 6020	591952
50272516001	DUP 4	SM 2540C	592257		
50272516002	P2 PZ-1D	SM 2540C	592564		
50272516003	P3 PZ-1D	SM 2540C	592564		
50272516001	DUP 4	SM 4500-H+B	591884		
50272516002	P2 PZ-1D	SM 4500-H+B	591884		
50272516003	P3 PZ-1D	SM 4500-H+B	591884		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.breting@atcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding St Profile 1 Report 3	Pace Project Manager: donna.spyker@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6246/19

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)			
				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	START				END		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	Analyses: Test	IN Metals, Total		IN Metals, Field Filtered	IN TDS/pH	IN Chloride, Fluoride, Sulfate
						DATE	TIME			DATE	TIME															
						Y/N	Y/N			Y/N	Y/N															
13	P2 PZ-1D	WT			11-5	11/10										X	X	X	X					002		
14	P2 PZ-2S	WT														X	X	X	X							
15	P2 PZ-2D	WT														X	X	X	X							
16	P2 PZ-3S	WT														X	X	X	X							
17	P2 PZ-3D	WT														X	X	X	X							
18	P3 PZ-1S	WT							X							X	X	X	X							
19	P3 PZ-1D	WT			11-5	10/10			X	X	X					X	X	X	X					003		
20					11-5																					
21																										
22																										
23																										
24																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Breting / ATC	11/6/20	1220	Zeljko Jovanovic / PAC	11/6/20	1220	
	Zeljko Jovanovic / PAC	11/6/20	1305		11/6/20	1305	555 SCWD

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Amy Jankowiak</u>						
SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed: <u>11-5-20</u>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/16/20 1530

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: SEE COMMENTS If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>				

COMMENTS: 15/1.4 1.3/1.2 1.7/1.6 2.0/1.9 1.4/1.3

Sample Container Count

Sample Line Item	WGFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H											Matrix	pH <2	pH >9	pH >10			
1																	/	/	/	/																		↙	✓		
2																																									
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7																																									
8																																									
9																																									
10																																									
11																																									
12																																									

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (~6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10		
																																1	
2																																	
3																																	
4																																	
5																																	
6																																	
7																/	/	/	/														
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding Street Profile 1 Rep 2
Pace Project No.: 50272518

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding Street Profile 1 Rep 2
Pace Project No.: 50272518

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272518001	M-4	Water	11/05/20 14:41	11/06/20 13:05
50272518002	Field Blank 2	Water	11/05/20 15:30	11/06/20 13:05
50272518003	MW-104D	Water	11/05/20 12:20	11/06/20 13:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272518001	M-4	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272518002	Field Blank 2	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272518003	MW-104D	SM 2540C	MMS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272518001	M-4					
EPA 9056	Chloride	108	mg/L	25.0	11/18/20 01:57	
EPA 9056	Fluoride	0.22	mg/L	0.10	11/18/20 01:38	
EPA 9056	Sulfate	469	mg/L	25.0	11/18/20 01:57	
EPA 6010	Barium	149	ug/L	10.0	11/13/20 01:55	
EPA 6010	Boron	20600	ug/L	100	11/13/20 01:55	
EPA 6010	Calcium	268000	ug/L	5000	11/13/20 02:50	
EPA 6010	Lithium	247	ug/L	20.0	11/13/20 01:55	
EPA 6010	Molybdenum	193	ug/L	10.0	11/13/20 01:55	
EPA 6020	Arsenic	820	ug/L	5.0	11/12/20 17:25	
EPA 903.1	Radium-226	0.601 ± 0.347 (0.136) C:NA T:84%	pCi/L		12/02/20 13:25	
EPA 904.0	Radium-228	1.05 ± 0.590 (1.08) C:61% T:80%	pCi/L		12/01/20 13:54	
Total Radium Calculation	Total Radium	1.65 ± 0.937 (1.22)	pCi/L		12/02/20 15:44	
SM 2540C	Total Dissolved Solids	1300	mg/L	20.0	11/12/20 10:39	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/10/20 14:11	H3
50272518002	Field Blank 2					
EPA 903.1	Radium-226	0.0463 ± 0.211 (0.125) C:NA T:90%	pCi/L		12/02/20 13:25	
EPA 904.0	Radium-228	0.0866 ± 0.429 (0.978) C:65% T:83%	pCi/L		12/01/20 13:54	
Total Radium Calculation	Total Radium	0.133 ± 0.640 (1.10)	pCi/L		12/02/20 15:44	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/10/20 14:14	H3
50272518003	MW-104D					
SM 2540C	Total Dissolved Solids	1030	mg/L	20.0	11/12/20 10:47	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Sample: M-4	Lab ID: 50272518001	Collected: 11/05/20 14:41	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	108	mg/L	25.0	100		11/18/20 01:57	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		11/18/20 01:38	16984-48-8	
Sulfate	469	mg/L	25.0	100		11/18/20 01:57	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	149	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:55	7440-39-3	
Boron	20600	ug/L	100	1	11/12/20 06:30	11/13/20 01:55	7440-42-8	
Calcium	268000	ug/L	5000	5	11/12/20 06:30	11/13/20 02:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:55	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:55	7439-92-1	
Lithium	247	ug/L	20.0	1	11/12/20 06:30	11/13/20 01:55	7439-93-2	
Molybdenum	193	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:55	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 17:29	7440-36-0	
Arsenic	820	ug/L	5.0	5	11/10/20 09:03	11/12/20 17:25	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 17:29	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 17:29	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 17:29	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1300	mg/L	20.0	1		11/12/20 10:39		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/10/20 14:11		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Sample: Field Blank 2	Lab ID: 50272518002	Collected: 11/05/20 15:30	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		11/18/20 02:13	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/18/20 02:13	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/18/20 02:13	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:58	7440-39-3	
Boron	ND	ug/L	100	1	11/12/20 06:30	11/13/20 01:58	7440-42-8	
Calcium	ND	ug/L	1000	1	11/12/20 06:30	11/13/20 01:58	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:58	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:58	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/12/20 06:30	11/13/20 01:58	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 01:58	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 16:55	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 16:55	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 16:55	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 16:55	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 16:55	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/12/20 10:40		PL
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/10/20 14:14		H3

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ANALYTICAL RESULTS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Sample: MW-104D	Lab ID: 50272518003	Collected: 11/05/20 12:20	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1030	mg/L	20.0	1		11/12/20 10:47		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 593499

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2738328

Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/17/20 22:04	
Fluoride	mg/L	ND	0.10	11/17/20 22:04	
Sulfate	mg/L	ND	0.25	11/17/20 22:04	

LABORATORY CONTROL SAMPLE: 2738329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738330 2738331

Parameter	Units	50272520004		2738330		2738331		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	289	289	125	125	444	435	124	117	80-120	2	15	M6
Fluoride	mg/L	0.94	0.94	0.5	0.5	1.4	1.4	98	99	80-120	0	15	
Sulfate	mg/L	450	450	250	250	738	720	115	108	80-120	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 591727

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2730302

Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/13/20 01:42	
Boron	ug/L	ND	100	11/13/20 01:42	
Calcium	ug/L	ND	1000	11/13/20 01:42	
Chromium	ug/L	ND	10.0	11/13/20 01:42	
Lead	ug/L	ND	10.0	11/13/20 01:42	
Lithium	ug/L	ND	20.0	11/13/20 01:42	
Molybdenum	ug/L	ND	10.0	11/13/20 01:42	

LABORATORY CONTROL SAMPLE: 2730303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	998	100	80-120	
Boron	ug/L	1000	979	98	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	996	100	80-120	
Lead	ug/L	1000	974	97	80-120	
Lithium	ug/L	1000	995	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730304 2730305

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272520004	Result	Spike Conc.	Spike Conc.						
Barium	ug/L	33.8	1000	1000	1040	1030	101	99	75-125	2	20
Boron	ug/L	9600	1000	1000	10900	10800	134	122	75-125	1	20 P6
Calcium	ug/L	181000	10000	10000	193000	192000	119	111	75-125	0	20
Chromium	ug/L	ND	1000	1000	980	971	98	97	75-125	1	20
Lead	ug/L	ND	1000	1000	968	955	97	95	75-125	1	20
Lithium	ug/L	69.3	1000	1000	1100	1080	103	101	75-125	2	20
Molybdenum	ug/L	722	1000	1000	1780	1750	106	103	75-125	2	20

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 591857

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2730691

Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/17/20 14:49	
Arsenic	ug/L	ND	1.0	11/17/20 14:49	
Beryllium	ug/L	ND	0.20	11/17/20 14:49	
Cobalt	ug/L	ND	1.0	11/17/20 14:49	
Selenium	ug/L	ND	1.0	11/17/20 14:49	

LABORATORY CONTROL SAMPLE: 2730692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.0	108	80-120	
Arsenic	ug/L	40	38.6	97	80-120	
Beryllium	ug/L	40	39.5	99	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	40.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730693 2730694

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272520004 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.8	41.4	103	102	75-125	1	20
Arsenic	ug/L	433	40	40	475	464	104	77	75-125	2	20
Beryllium	ug/L	ND	40	40	38.2	37.5	95	94	75-125	2	20
Cobalt	ug/L	ND	40	40	37.8	37.6	93	92	75-125	1	20
Selenium	ug/L	ND	40	40	30.6	30.5	76	76	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 592564	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2733880 Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 10:33	

LABORATORY CONTROL SAMPLE: 2733881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 2733882

Parameter	Units	50272477006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	848	852	0	10	

SAMPLE DUPLICATE: 2733883

Parameter	Units	50272506002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	197	10	10	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 592567

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518003

METHOD BLANK: 2733894

Matrix: Water

Associated Lab Samples: 50272518003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 10:47	

LABORATORY CONTROL SAMPLE: 2733895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	302	101	80-120	

SAMPLE DUPLICATE: 2733896

Parameter	Units	50272520004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1420	1	10	

SAMPLE DUPLICATE: 2733897

Parameter	Units	50272616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	973	973	0	10	

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QUALITY CONTROL DATA

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 592109	Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B	Analysis Description: 4500H+B pH
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272518001, 50272518002

SAMPLE DUPLICATE: 2731666

Parameter	Units	50272520004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2731667

Parameter	Units	50272635002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: M-4 Lab ID: 50272518001 Collected: 11/05/20 14:41 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.601 ± 0.347 (0.136) C:NA T:84%	pCi/L	12/02/20 13:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.05 ± 0.590 (1.08) C:61% T:80%	pCi/L	12/01/20 13:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.65 ± 0.937 (1.22)	pCi/L	12/02/20 15:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 2 Lab ID: 50272518002 Collected: 11/05/20 15:30 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0463 ± 0.211 (0.125) C:NA T:90%	pCi/L	12/02/20 13:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0866 ± 0.429 (0.978) C:65% T:83%	pCi/L	12/01/20 13:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.133 ± 0.640 (1.10)	pCi/L	12/02/20 15:44	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 422649

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2042816

Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.155 ± 0.365 (0.812) C:73% T:79%	pCi/L	12/01/20 13:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

QC Batch: 422648

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272518001, 50272518002

METHOD BLANK: 2042815

Matrix: Water

Associated Lab Samples: 50272518001, 50272518002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.108 ± 0.292 (0.543) C:NA T:87%	pCi/L	12/02/20 12:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding Street Profile 1 Rep 2

Pace Project No.: 50272518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272518001	M-4	EPA 9056	593499		
50272518002	Field Blank 2	EPA 9056	593499		
50272518001	M-4	EPA 3010	591727	EPA 6010	592812
50272518002	Field Blank 2	EPA 3010	591727	EPA 6010	592812
50272518001	M-4	EPA 200.2	591857	EPA 6020	592221
50272518002	Field Blank 2	EPA 200.2	591857	EPA 6020	592221
50272518001	M-4	EPA 903.1	422648		
50272518002	Field Blank 2	EPA 903.1	422648		
50272518001	M-4	EPA 904.0	422649		
50272518002	Field Blank 2	EPA 904.0	422649		
50272518001	M-4	Total Radium Calculation	425524		
50272518002	Field Blank 2	Total Radium Calculation	425524		
50272518001	M-4	SM 2540C	592564		
50272518002	Field Blank 2	SM 2540C	592564		
50272518003	MW-104D	SM 2540C	592567		
50272518001	M-4	SM 4500-H+B	592109		
50272518002	Field Blank 2	SM 4500-H+B	592109		

REPORT OF LABORATORY ANALYSIS

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WO#: 50272518



50272518

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C Invoice Information: Page : 1 Of 1

Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.breting@atcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding Street Profile 1 Report 2	Pace Project Manager: donna.spyker@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6246/3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses: Test Y/N	Requested Analysis: Filtered (Y/N)				Residual Chlorine (Y/N)	
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol		Other	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate		IN Rad226/Rad228
						DATE	TIME	DATE	TIME																
1	M-4	WT						11-5-20	14:41		5	2	3						X	X	X	X			001
2	PZ-100S	WT																	X	X	X	X			
3	PZ-100D	WT																	X	X	X	X			
4	PZ-101S	WT																	X	X	X	X			
5	PZ-101D	WT																	X	X	X	X			
6	DUP 3	WT																	X	X	X	X			
7	Field Blank 2	WT						11-5-20	15:30		5	2	3						X	X	X	X			002
8	MS3	WT																	X	X	X	X			
9	MSD3	WT																	X	X	X	X			
10	Extra	WT																	X	X	X	X			
11	MW-102S	WT																	X	X	X	X			
12	MW-102D	WT																	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Breting/ATC	11/6/20	1220	Steven Barajas	11/6/20	1220	
	Steven Barajas	11/6/20	1305	Mark Breting	11/6/20	1305	SEALED

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Steven Barajas						
SIGNATURE of SAMPLER: <i>SB</i>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: Thru 11/16/20 1530

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: See Comments If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Rush TAT Requested (4 days or less):		/	Headspace Wisconsin Sulfide?			/
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm):			/
Containers Intact?:	/		Trip Blank Present?		/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Custody Seals?:		/	
Extra labels on Terracore Vials? (soils only)		/				

COMMENTS: 15/14 1.8/12 1.7/16 2.0/19 1.4/13

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10
1																2	1	1	1									51	✓		
2																															
3																															
4																															
5																															
6																															
7																2	1	1	1									55	✓		
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				
						AF	Air Filter
						C	Air Cassettes
						R	Terra core kit
						SP5T	120mL Coliform Na Thiosulfate
						U	Summa Can
						ZPLC	Ziploc Bag
						WT	Water
						SL	Solid
						NAL	Non-aqueous liquid
						WP	Wipe

Sample Container Count

Sample Line Item	WGFLU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H						Matrix	pH <2	pH >9	pH >10				
				1																																	
2																																					
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFLU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFLU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50272520

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272520001	MW-5S	Water	11/05/20 14:35	11/06/20 13:05
50272520002	MW-10S	Water	11/05/20 09:52	11/06/20 13:05
50272520003	MW-10D	Water	11/05/20 11:22	11/06/20 13:05
50272520004	MW-13S	Water	11/05/20 12:45	11/06/20 13:05
50272520005	MW-13D	Water	11/05/20 13:43	11/06/20 13:05
50272520006	MW-11D	Water	11/05/20 10:35	11/06/20 13:05
50272520007	MW-12S	Water	11/05/20 12:30	11/06/20 13:05
50272520008	MW-11S	Water	11/05/20 12:05	11/06/20 13:05
50272520009	MW-12D	Water	11/05/20 13:25	11/06/20 13:05
50272520010	MW-14D	Water	11/05/20 12:55	11/06/20 13:05
50272520011	DUP 2	Water	11/05/20 00:00	11/06/20 13:05
50272520012	MW-13S MS	Water	11/05/20 12:45	11/06/20 13:05
50272520013	MW-13S MSD	Water	11/05/20 12:45	11/06/20 13:05
50272520014	Fied Blank 1	Water	11/05/20 08:00	11/06/20 13:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272520001	MW-5S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520002	MW-10S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520003	MW-10D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520004	MW-13S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520005	MW-13D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272520006	MW-11D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520007	MW-12S	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520008	MW-11S	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520009	MW-12D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520010	MW-14D	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520011	DUP 2	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272520012	MW-13S MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520013	MW-13S MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272520014	Fied Blank 1	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272520001	MW-5S					
EPA 9056	Chloride	160	mg/L	25.0	11/18/20 03:35	
EPA 9056	Fluoride	2.3	mg/L	0.10	11/18/20 03:19	
EPA 9056	Sulfate	346	mg/L	25.0	11/18/20 03:35	
EPA 6010	Barium	25.0	ug/L	10.0	11/13/20 02:00	
EPA 6010	Boron	4190	ug/L	100	11/13/20 02:00	
EPA 6010	Calcium	172000	ug/L	1000	11/13/20 02:00	
EPA 6010	Lithium	41.7	ug/L	20.0	11/13/20 02:00	
EPA 6010	Molybdenum	182	ug/L	10.0	11/13/20 02:00	
EPA 903.1	Radium-226	0.309 ± 0.354 (0.209)	pCi/L		12/02/20 14:03	
EPA 904.0	Radium-228	C:NA T:57% 0.856 ± 0.674 (1.35) C:66% T:59%	pCi/L		12/01/20 11:55	
Total Radium Calculation	Total Radium	1.17 ± 1.03 (1.56)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1130	mg/L	20.0	11/12/20 10:47	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/10/20 14:17	H3
50272520002	MW-10S					
EPA 9056	Chloride	432	mg/L	25.0	11/18/20 04:41	
EPA 9056	Fluoride	2.4	mg/L	0.10	11/18/20 04:24	
EPA 9056	Sulfate	542	mg/L	25.0	11/18/20 04:41	
EPA 6010	Barium	46.8	ug/L	10.0	11/13/20 02:02	
EPA 6010	Boron	2090	ug/L	100	11/13/20 02:02	
EPA 6010	Calcium	234000	ug/L	2000	11/13/20 02:53	
EPA 6010	Lithium	49.9	ug/L	20.0	11/13/20 02:02	
EPA 6010	Molybdenum	77.4	ug/L	10.0	11/13/20 02:02	
EPA 6020	Arsenic	349	ug/L	5.0	11/12/20 17:33	
EPA 903.1	Radium-226	0.114 ± 0.353 (0.683)	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	C:NA T:76% 3.96 ± 1.90 (3.11) C:63% T:33%	pCi/L		12/01/20 11:56	
Total Radium Calculation	Total Radium	4.07 ± 2.25 (3.79)	pCi/L		12/02/20 15:44	
SM 2540C	Total Dissolved Solids	1770	mg/L	20.0	11/12/20 10:47	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 14:19	H3
50272520003	MW-10D					
EPA 9056	Chloride	356	mg/L	25.0	11/18/20 05:30	
EPA 9056	Fluoride	2.6	mg/L	0.10	11/18/20 04:57	
EPA 9056	Sulfate	425	mg/L	25.0	11/18/20 05:30	
EPA 6010	Barium	30.3	ug/L	10.0	11/13/20 02:05	
EPA 6010	Boron	2280	ug/L	100	11/13/20 02:05	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272520003	MW-10D					
EPA 6010	Calcium	173000	ug/L	1000	11/13/20 02:05	
EPA 6010	Lithium	52.2	ug/L	20.0	11/13/20 02:05	
EPA 6010	Molybdenum	88.6	ug/L	10.0	11/13/20 02:05	
EPA 6020	Arsenic	265	ug/L	2.0	11/12/20 17:38	
EPA 903.1	Radium-226	0.412 ± 0.688 (1.20) C:NA T:59%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	-0.114 ± 0.772 (1.97) C:62% T:51%	pCi/L		12/01/20 11:57	
Total Radium Calculation	Total Radium	0.412 ± 1.46 (3.17)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1540	mg/L	20.0	11/12/20 10:47	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 14:20	H3
50272520004	MW-13S					
EPA 9056	Chloride	289	mg/L	25.0	11/18/20 07:08	M6
EPA 9056	Fluoride	0.94	mg/L	0.10	11/18/20 06:19	
EPA 9056	Sulfate	450	mg/L	25.0	11/18/20 07:08	
EPA 6010	Barium	33.8	ug/L	10.0	11/13/20 02:07	
EPA 6010	Boron	9600	ug/L	100	11/13/20 02:07	
EPA 6010	Calcium	181000	ug/L	1000	11/13/20 02:07	
EPA 6010	Lithium	69.3	ug/L	20.0	11/13/20 02:07	
EPA 6010	Molybdenum	722	ug/L	10.0	11/13/20 02:07	
EPA 6020	Arsenic	433	ug/L	5.0	11/12/20 17:51	
EPA 903.1	Radium-226	0.000 ± 0.338 (0.692) C:NA T:68%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	1.86 ± 0.835 (1.42) C:64% T:60%	pCi/L		12/01/20 11:54	
Total Radium Calculation	Total Radium	1.86 ± 1.17 (2.11)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1400	mg/L	20.0	11/12/20 10:47	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/10/20 14:21	H3
50272520005	MW-13D					
EPA 9056	Chloride	307	mg/L	25.0	11/18/20 09:03	
EPA 9056	Fluoride	0.62	mg/L	0.10	11/18/20 08:30	
EPA 9056	Sulfate	471	mg/L	25.0	11/18/20 09:03	
EPA 6010	Barium	30.8	ug/L	10.0	11/13/20 02:22	
EPA 6010	Boron	9850	ug/L	100	11/13/20 02:22	
EPA 6010	Calcium	172000	ug/L	1000	11/13/20 02:22	
EPA 6010	Lithium	79.6	ug/L	20.0	11/13/20 02:22	
EPA 6010	Molybdenum	859	ug/L	10.0	11/13/20 02:22	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272520005	MW-13D					
EPA 6020	Arsenic	224	ug/L	2.0	11/12/20 18:21	
EPA 903.1	Radium-226	0.381 ± 0.355 (0.468) C:NA T:68%	pCi/L		12/02/20 14:03	
EPA 904.0	Radium-228	1.15 ± 0.818 (1.61) C:62% T:54%	pCi/L		12/01/20 11:55	
Total Radium Calculation	Total Radium	1.53 ± 1.17 (2.08)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1380	mg/L	20.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 14:23	H3
50272520006	MW-11D					
EPA 9056	Chloride	77.1	mg/L	25.0	11/18/20 09:35	
EPA 9056	Fluoride	0.43	mg/L	0.10	11/18/20 09:19	
EPA 9056	Sulfate	571	mg/L	25.0	11/18/20 09:35	
EPA 6010	Barium	31.7	ug/L	10.0	11/13/20 02:25	
EPA 6010	Boron	10600	ug/L	100	11/13/20 02:25	
EPA 6010	Calcium	225000	ug/L	2000	11/13/20 02:55	
EPA 6010	Lithium	134	ug/L	20.0	11/13/20 02:25	
EPA 6020	Arsenic	14.4	ug/L	1.0	11/12/20 19:29	
EPA 903.1	Radium-226	0.390 ± 0.444 (0.700) C:NA T:66%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	-0.0491 ± 0.651 (1.65) C:64% T:55%	pCi/L		12/01/20 11:57	
Total Radium Calculation	Total Radium	0.390 ± 1.10 (2.35)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1190	mg/L	20.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/10/20 14:24	H3
50272520007	MW-12S					
EPA 9056	Chloride	141	mg/L	25.0	11/18/20 10:12	
EPA 9056	Fluoride	1.8	mg/L	0.10	11/18/20 09:52	
EPA 9056	Sulfate	565	mg/L	25.0	11/18/20 10:12	
EPA 6010	Barium	31.4	ug/L	10.0	11/13/20 02:27	
EPA 6010	Boron	9430	ug/L	100	11/13/20 02:27	
EPA 6010	Calcium	211000	ug/L	2000	11/13/20 02:57	
EPA 6010	Lithium	84.6	ug/L	20.0	11/13/20 02:27	
EPA 6010	Molybdenum	196	ug/L	10.0	11/13/20 02:27	
EPA 6020	Antimony	2.8	ug/L	1.0	11/12/20 19:33	
EPA 6020	Arsenic	46.9	ug/L	1.0	11/12/20 19:33	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272520007	MW-12S					
EPA 903.1	Radium-226	0.0719 ± 0.615 (1.20) C:NA T:70%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	1.68 ± 0.892 (1.54) C:64% T:65%	pCi/L		12/01/20 11:57	
Total Radium Calculation	Total Radium	1.75 ± 1.51 (2.74)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1300	mg/L	20.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/10/20 14:26	H3
50272520008	MW-11S					
EPA 9056	Chloride	22.8	mg/L	5.0	11/18/20 10:44	
EPA 9056	Fluoride	1.6	mg/L	0.10	11/18/20 10:28	
EPA 9056	Sulfate	98.2	mg/L	5.0	11/18/20 10:44	
EPA 6010	Barium	76.2	ug/L	20.0	11/13/20 02:46	
EPA 6010	Boron	494	ug/L	200	11/13/20 02:46	
EPA 6010	Calcium	48200	ug/L	1000	11/13/20 02:30	
EPA 6010	Molybdenum	80.6	ug/L	10.0	11/13/20 02:30	
EPA 6020	Arsenic	2.6	ug/L	1.0	11/12/20 19:38	
EPA 903.1	Radium-226	0.669 ± 0.530 (0.720) C:NA T:65%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	0.812 ± 0.671 (1.34) C:65% T:70%	pCi/L		12/01/20 11:57	
Total Radium Calculation	Total Radium	1.48 ± 1.20 (2.06)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	404	mg/L	10.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	11/10/20 14:27	H3
50272520009	MW-12D					
EPA 9056	Chloride	200	mg/L	25.0	11/18/20 11:50	
EPA 9056	Fluoride	0.97	mg/L	0.10	11/18/20 11:33	
EPA 9056	Sulfate	610	mg/L	25.0	11/18/20 11:50	
EPA 6010	Barium	27.5	ug/L	10.0	11/13/20 02:32	
EPA 6010	Boron	9050	ug/L	100	11/13/20 02:32	
EPA 6010	Calcium	232000	ug/L	2000	11/13/20 03:00	
EPA 6010	Lithium	108	ug/L	20.0	11/13/20 02:32	
EPA 6010	Molybdenum	200	ug/L	10.0	11/13/20 02:32	
EPA 6020	Arsenic	513	ug/L	5.0	11/12/20 18:25	
EPA 903.1	Radium-226	0.135 ± 0.325 (0.627) C:NA T:66%	pCi/L		12/02/20 14:03	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272520009	MW-12D					
EPA 904.0	Radium-228	0.993 ± 0.771 (1.54) C:64% T:57%	pCi/L		12/01/20 11:55	
Total Radium Calculation	Total Radium	1.13 ± 1.10 (2.17)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	1460	mg/L	20.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 14:28	H3
50272520010	MW-14D					
EPA 9056	Chloride	139	mg/L	25.0	11/18/20 12:23	
EPA 9056	Fluoride	0.26	mg/L	0.10	11/18/20 12:06	
EPA 9056	Sulfate	1380	mg/L	25.0	11/18/20 12:23	
EPA 6010	Barium	49.4	ug/L	10.0	11/13/20 02:34	
EPA 6010	Boron	29300	ug/L	100	11/13/20 02:34	
EPA 6010	Calcium	362000	ug/L	5000	11/13/20 03:02	
EPA 6010	Lithium	445	ug/L	20.0	11/13/20 02:34	
EPA 6010	Molybdenum	259	ug/L	10.0	11/13/20 02:34	
EPA 6020	Arsenic	105	ug/L	1.0	11/12/20 19:46	
EPA 903.1	Radium-226	0.391 ± 0.275 (0.133) C:NA T:86%	pCi/L		12/02/20 14:03	
EPA 904.0	Radium-228	1.24 ± 0.607 (1.08) C:62% T:82%	pCi/L		12/01/20 11:55	
Total Radium Calculation	Total Radium	1.63 ± 0.882 (1.21)	pCi/L		12/02/20 15:52	
SM 2540C	Total Dissolved Solids	2310	mg/L	40.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/10/20 14:30	H3
50272520011	DUP 2					
EPA 9056	Chloride	387	mg/L	25.0	11/18/20 12:55	
EPA 9056	Fluoride	2.4	mg/L	0.10	11/18/20 12:39	
EPA 9056	Sulfate	486	mg/L	25.0	11/18/20 12:55	
EPA 6010	Barium	46.8	ug/L	10.0	11/13/20 02:37	
EPA 6010	Boron	2060	ug/L	100	11/13/20 02:37	
EPA 6010	Calcium	230000	ug/L	2000	11/13/20 03:04	
EPA 6010	Lithium	49.4	ug/L	20.0	11/13/20 02:37	
EPA 6010	Molybdenum	76.6	ug/L	10.0	11/13/20 02:37	
EPA 6020	Arsenic	358	ug/L	5.0	11/12/20 18:29	
EPA 903.1	Radium-226	0.285 ± 0.265 (0.349) C:NA T:87%	pCi/L		12/02/20 13:25	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272520011	DUP 2					
EPA 904.0	Radium-228	0.683 ± 0.546 (1.09) C:66% T:78%	pCi/L		12/01/20 13:54	
Total Radium Calculation	Total Radium	0.968 ± 0.811 (1.44)	pCi/L		12/02/20 15:44	
SM 2540C	Total Dissolved Solids	1760	mg/L	40.0	11/12/20 10:48	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 14:31	H3
50272520012	MW-13S MS					
EPA 903.1	Radium-226	125.57 %REC ± NA (NA) C:NA T:NA%	pCi/L		12/02/20 14:03	
EPA 904.0	Radium-228	187.83 %REC ± NA (NA) C:NA T:NA	pCi/L		12/01/20 11:55	
50272520013	MW-13S MSD					
EPA 903.1	Radium-226	93.51 %REC 29.27 RPD ± NA (NA) C:NA T:NA%	pCi/L		12/02/20 14:03	
EPA 904.0	Radium-228	128.30 %REC 37.66 RPD ± NA (NA) C:NA T:NA	pCi/L		12/01/20 11:55	
50272520014	Fied Blank 1					
EPA 903.1	Radium-226	0.0950 ± 0.372 (0.713) C:NA T:87%	pCi/L		12/02/20 13:48	
EPA 904.0	Radium-228	-0.227 ± 0.477 (1.31) C:62% T:69%	pCi/L		12/01/20 11:56	
Total Radium Calculation	Total Radium	0.0950 ± 0.849 (2.02)	pCi/L		12/02/20 15:44	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	11/10/20 14:39	H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-5S	Lab ID: 50272520001	Collected: 11/05/20 14:35	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	160	mg/L	25.0	100		11/18/20 03:35	16887-00-6	
Fluoride	2.3	mg/L	0.10	1		11/18/20 03:19	16984-48-8	
Sulfate	346	mg/L	25.0	100		11/18/20 03:35	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	25.0	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:00	7440-39-3	
Boron	4190	ug/L	100	1	11/12/20 06:30	11/13/20 02:00	7440-42-8	
Calcium	172000	ug/L	1000	1	11/12/20 06:30	11/13/20 02:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:00	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:00	7439-92-1	
Lithium	41.7	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:00	7439-93-2	
Molybdenum	182	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:00	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:34	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:34	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 18:34	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:34	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:34	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1130	mg/L	20.0	1		11/12/20 10:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/10/20 14:17		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-10S	Lab ID: 50272520002	Collected: 11/05/20 09:52	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	432	mg/L	25.0	100		11/18/20 04:41	16887-00-6	
Fluoride	2.4	mg/L	0.10	1		11/18/20 04:24	16984-48-8	
Sulfate	542	mg/L	25.0	100		11/18/20 04:41	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	46.8	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:02	7440-39-3	
Boron	2090	ug/L	100	1	11/12/20 06:30	11/13/20 02:02	7440-42-8	
Calcium	234000	ug/L	2000	2	11/12/20 06:30	11/13/20 02:53	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:02	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:02	7439-92-1	
Lithium	49.9	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:02	7439-93-2	
Molybdenum	77.4	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:02	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:38	7440-36-0	
Arsenic	349	ug/L	5.0	5	11/10/20 09:03	11/12/20 17:33	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 18:38	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:38	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:38	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1770	mg/L	20.0	1		11/12/20 10:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 14:19		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-10D	Lab ID: 50272520003	Collected: 11/05/20 11:22	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	356	mg/L	25.0	100		11/18/20 05:30	16887-00-6	
Fluoride	2.6	mg/L	0.10	1		11/18/20 04:57	16984-48-8	
Sulfate	425	mg/L	25.0	100		11/18/20 05:30	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	30.3	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:05	7440-39-3	
Boron	2280	ug/L	100	1	11/12/20 06:30	11/13/20 02:05	7440-42-8	
Calcium	173000	ug/L	1000	1	11/12/20 06:30	11/13/20 02:05	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:05	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:05	7439-92-1	
Lithium	52.2	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:05	7439-93-2	
Molybdenum	88.6	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:05	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:42	7440-36-0	
Arsenic	265	ug/L	2.0	2	11/10/20 09:03	11/12/20 17:38	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 18:42	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:42	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:42	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1540	mg/L	20.0	1		11/12/20 10:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 14:20		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-13S	Lab ID: 50272520004	Collected: 11/05/20 12:45	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	289	mg/L	25.0	100		11/18/20 07:08	16887-00-6	M6
Fluoride	0.94	mg/L	0.10	1		11/18/20 06:19	16984-48-8	
Sulfate	450	mg/L	25.0	100		11/18/20 07:08	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	33.8	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:07	7440-39-3	
Boron	9600	ug/L	100	1	11/12/20 06:30	11/13/20 02:07	7440-42-8	
Calcium	181000	ug/L	1000	1	11/12/20 06:30	11/13/20 02:07	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:07	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:07	7439-92-1	
Lithium	69.3	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:07	7439-93-2	
Molybdenum	722	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:07	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:55	7440-36-0	
Arsenic	433	ug/L	5.0	5	11/10/20 09:03	11/12/20 17:51	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 18:55	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:55	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 18:55	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1400	mg/L	20.0	1		11/12/20 10:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/10/20 14:21		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-13D	Lab ID: 50272520005	Collected: 11/05/20 13:43	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	307	mg/L	25.0	100		11/18/20 09:03	16887-00-6	
Fluoride	0.62	mg/L	0.10	1		11/18/20 08:30	16984-48-8	
Sulfate	471	mg/L	25.0	100		11/18/20 09:03	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	30.8	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:22	7440-39-3	
Boron	9850	ug/L	100	1	11/12/20 06:30	11/13/20 02:22	7440-42-8	
Calcium	172000	ug/L	1000	1	11/12/20 06:30	11/13/20 02:22	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:22	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:22	7439-92-1	
Lithium	79.6	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:22	7439-93-2	
Molybdenum	859	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:22	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:25	7440-36-0	
Arsenic	224	ug/L	2.0	2	11/10/20 09:03	11/12/20 18:21	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:25	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:25	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:25	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1380	mg/L	20.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 14:23		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-11D	Lab ID: 50272520006	Collected: 11/05/20 10:35	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	77.1	mg/L	25.0	100		11/18/20 09:35	16887-00-6	
Fluoride	0.43	mg/L	0.10	1		11/18/20 09:19	16984-48-8	
Sulfate	571	mg/L	25.0	100		11/18/20 09:35	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	31.7	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:25	7440-39-3	
Boron	10600	ug/L	100	1	11/12/20 06:30	11/13/20 02:25	7440-42-8	
Calcium	225000	ug/L	2000	2	11/12/20 06:30	11/13/20 02:55	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:25	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:25	7439-92-1	
Lithium	134	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:25	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:25	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:29	7440-36-0	
Arsenic	14.4	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:29	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:29	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:29	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:29	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1190	mg/L	20.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/10/20 14:24		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-12S								
Lab ID: 50272520007								
Collected: 11/05/20 12:30								
Received: 11/06/20 13:05								
Matrix: Water								
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	141	mg/L	25.0	100		11/18/20 10:12	16887-00-6	
Fluoride	1.8	mg/L	0.10	1		11/18/20 09:52	16984-48-8	
Sulfate	565	mg/L	25.0	100		11/18/20 10:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	31.4	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:27	7440-39-3	
Boron	9430	ug/L	100	1	11/12/20 06:30	11/13/20 02:27	7440-42-8	
Calcium	211000	ug/L	2000	2	11/12/20 06:30	11/13/20 02:57	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:27	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:27	7439-92-1	
Lithium	84.6	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:27	7439-93-2	
Molybdenum	196	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:27	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	2.8	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:33	7440-36-0	
Arsenic	46.9	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:33	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:33	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:33	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:33	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1300	mg/L	20.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/10/20 14:26		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-11S	Lab ID: 50272520008	Collected: 11/05/20 12:05	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	22.8	mg/L	5.0	20		11/18/20 10:44	16887-00-6	
Fluoride	1.6	mg/L	0.10	1		11/18/20 10:28	16984-48-8	
Sulfate	98.2	mg/L	5.0	20		11/18/20 10:44	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	76.2	ug/L	20.0	2	11/12/20 06:30	11/13/20 02:46	7440-39-3	
Boron	494	ug/L	200	2	11/12/20 06:30	11/13/20 02:46	7440-42-8	
Calcium	48200	ug/L	1000	1	11/12/20 06:30	11/13/20 02:30	7440-70-2	
Chromium	ND	ug/L	20.0	2	11/12/20 06:30	11/13/20 02:46	7440-47-3	D3
Lead	ND	ug/L	20.0	2	11/12/20 06:30	11/13/20 02:46	7439-92-1	D3
Lithium	ND	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:30	7439-93-2	
Molybdenum	80.6	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:30	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:38	7440-36-0	
Arsenic	2.6	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:38	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:38	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:38	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:38	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	404	mg/L	10.0	1		11/12/20 10:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		11/10/20 14:27		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-12D	Lab ID: 50272520009	Collected: 11/05/20 13:25	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	200	mg/L	25.0	100		11/18/20 11:50	16887-00-6	
Fluoride	0.97	mg/L	0.10	1		11/18/20 11:33	16984-48-8	
Sulfate	610	mg/L	25.0	100		11/18/20 11:50	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	27.5	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:32	7440-39-3	
Boron	9050	ug/L	100	1	11/12/20 06:30	11/13/20 02:32	7440-42-8	
Calcium	232000	ug/L	2000	2	11/12/20 06:30	11/13/20 03:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:32	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:32	7439-92-1	
Lithium	108	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:32	7439-93-2	
Molybdenum	200	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:32	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:42	7440-36-0	
Arsenic	513	ug/L	5.0	5	11/10/20 09:03	11/12/20 18:25	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:42	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:42	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:42	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1460	mg/L	20.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 14:28		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-14D	Lab ID: 50272520010	Collected: 11/05/20 12:55	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	139	mg/L	25.0	100		11/18/20 12:23	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		11/18/20 12:06	16984-48-8	
Sulfate	1380	mg/L	25.0	100		11/18/20 12:23	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	49.4	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:34	7440-39-3	
Boron	29300	ug/L	100	1	11/12/20 06:30	11/13/20 02:34	7440-42-8	
Calcium	362000	ug/L	5000	5	11/12/20 06:30	11/13/20 03:02	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:34	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:34	7439-92-1	
Lithium	445	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:34	7439-93-2	
Molybdenum	259	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:34	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:46	7440-36-0	
Arsenic	105	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:46	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:46	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:46	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2310	mg/L	40.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/10/20 14:30		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: DUP 2	Lab ID: 50272520011	Collected: 11/05/20 00:00	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	387	mg/L	25.0	100		11/18/20 12:55	16887-00-6	
Fluoride	2.4	mg/L	0.10	1		11/18/20 12:39	16984-48-8	
Sulfate	486	mg/L	25.0	100		11/18/20 12:55	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	46.8	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:37	7440-39-3	
Boron	2060	ug/L	100	1	11/12/20 06:30	11/13/20 02:37	7440-42-8	
Calcium	230000	ug/L	2000	2	11/12/20 06:30	11/13/20 03:04	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:37	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:37	7439-92-1	
Lithium	49.4	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:37	7439-93-2	
Molybdenum	76.6	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:37	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:51	7440-36-0	
Arsenic	358	ug/L	5.0	5	11/10/20 09:03	11/12/20 18:29	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/10/20 09:03	11/12/20 19:51	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:51	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/10/20 09:03	11/12/20 19:51	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1760	mg/L	40.0	1		11/12/20 10:48		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 14:31		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272520

Sample: Fied Blank 1	Lab ID: 50272520014	Collected: 11/05/20 08:00	Received: 11/06/20 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		11/18/20 13:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/18/20 13:12	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/18/20 13:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:39	7440-39-3	
Boron	ND	ug/L	100	1	11/12/20 06:30	11/13/20 02:39	7440-42-8	
Calcium	ND	ug/L	1000	1	11/12/20 06:30	11/13/20 02:39	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:39	7440-47-3	
Lead	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:39	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/12/20 06:30	11/13/20 02:39	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/12/20 06:30	11/13/20 02:39	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:47	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:47	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/11/20 08:02	11/11/20 20:47	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:47	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:47	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/12/20 10:48		PL
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.3	Std. Units	0.10	1		11/10/20 14:39		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	593499	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014

METHOD BLANK: 2738328 Matrix: Water
Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/17/20 22:04	
Fluoride	mg/L	ND	0.10	11/17/20 22:04	
Sulfate	mg/L	ND	0.25	11/17/20 22:04	

LABORATORY CONTROL SAMPLE: 2738329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738330 2738331

Parameter	Units	50272520004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	289	125	125	444	435	124	117	80-120	2	15	M6
Fluoride	mg/L	0.94	0.5	0.5	1.4	1.4	98	99	80-120	0	15	
Sulfate	mg/L	450	250	250	738	720	115	108	80-120	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	591727	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014

METHOD BLANK:	2730302	Matrix:	Water
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Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/13/20 01:42	
Boron	ug/L	ND	100	11/13/20 01:42	
Calcium	ug/L	ND	1000	11/13/20 01:42	
Chromium	ug/L	ND	10.0	11/13/20 01:42	
Lead	ug/L	ND	10.0	11/13/20 01:42	
Lithium	ug/L	ND	20.0	11/13/20 01:42	
Molybdenum	ug/L	ND	10.0	11/13/20 01:42	

LABORATORY CONTROL SAMPLE: 2730303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	998	100	80-120	
Boron	ug/L	1000	979	98	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	996	100	80-120	
Lead	ug/L	1000	974	97	80-120	
Lithium	ug/L	1000	995	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730304 2730305

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272520004 Result	Spike Conc.	Spike Conc.	Result						
Barium	ug/L	33.8	1000	1000	1040	1030	101	99	75-125	2	20
Boron	ug/L	9600	1000	1000	10900	10800	134	122	75-125	1	20 P6
Calcium	ug/L	181000	10000	10000	193000	192000	119	111	75-125	0	20
Chromium	ug/L	ND	1000	1000	980	971	98	97	75-125	1	20
Lead	ug/L	ND	1000	1000	968	955	97	95	75-125	1	20
Lithium	ug/L	69.3	1000	1000	1100	1080	103	101	75-125	2	20
Molybdenum	ug/L	722	1000	1000	1780	1750	106	103	75-125	2	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	591857	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011		

METHOD BLANK:	2730691	Matrix:	Water
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/17/20 14:49	
Arsenic	ug/L	ND	1.0	11/17/20 14:49	
Beryllium	ug/L	ND	0.20	11/17/20 14:49	
Cobalt	ug/L	ND	1.0	11/17/20 14:49	
Selenium	ug/L	ND	1.0	11/17/20 14:49	

LABORATORY CONTROL SAMPLE: 2730692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.0	108	80-120	
Arsenic	ug/L	40	38.6	97	80-120	
Beryllium	ug/L	40	39.5	99	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	40.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730693 2730694

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50272520004	Result	Spike Conc.	Spike Conc.							Result
Antimony	ug/L	ND	ND	40	40	41.8	41.4	103	102	75-125	1	20
Arsenic	ug/L	433	433	40	40	475	464	104	77	75-125	2	20
Beryllium	ug/L	ND	ND	40	40	38.2	37.5	95	94	75-125	2	20
Cobalt	ug/L	ND	ND	40	40	37.8	37.6	93	92	75-125	1	20
Selenium	ug/L	ND	ND	40	40	30.6	30.5	76	76	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch: 592010

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272520014

METHOD BLANK: 2731184

Matrix: Water

Associated Lab Samples: 50272520014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/11/20 20:39	
Arsenic	ug/L	ND	1.0	11/11/20 20:39	
Beryllium	ug/L	ND	0.20	11/11/20 20:39	
Cobalt	ug/L	ND	1.0	11/11/20 20:39	
Selenium	ug/L	ND	1.0	11/11/20 20:39	

LABORATORY CONTROL SAMPLE: 2731185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.8	104	80-120	
Arsenic	ug/L	40	38.2	95	80-120	
Beryllium	ug/L	40	38.7	97	80-120	
Cobalt	ug/L	40	39.1	98	80-120	
Selenium	ug/L	40	39.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2731186 2731187

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272524009 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	5.5	40	40	40	16.0	15.7	26	25	75-125	2	20	M3
Arsenic	ug/L	592	40	40	40	628	628	90	90	75-125	0	20	
Beryllium	ug/L	31.9	40	40	40	68.9	68.7	92	92	75-125	0	20	
Cobalt	ug/L	49.1	40	40	40	77.9	78.2	72	73	75-125	0	20	M3
Selenium	ug/L	13.2	40	40	40	45.1	45.1	80	80	75-125	0	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	592567	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014		

METHOD BLANK:	2733894	Matrix:	Water
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 10:47	

LABORATORY CONTROL SAMPLE: 2733895						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	302	101	80-120	

SAMPLE DUPLICATE: 2733896						
Parameter	Units	50272520004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1420	1	10	

SAMPLE DUPLICATE: 2733897						
Parameter	Units	50272616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	973	973	0	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	592109	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520011, 50272520014

SAMPLE DUPLICATE: 2731666

Parameter	Units	50272520004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2731667

Parameter	Units	50272635002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-5S **Lab ID: 50272520001** Collected: 11/05/20 14:35 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.309 ± 0.354 (0.209) C:NA T:57%	pCi/L	12/02/20 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.856 ± 0.674 (1.35) C:66% T:59%	pCi/L	12/01/20 11:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.17 ± 1.03 (1.56)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-10S **Lab ID: 50272520002** Collected: 11/05/20 09:52 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.114 ± 0.353 (0.683) C:NA T:76%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	3.96 ± 1.90 (3.11) C:63% T:33%	pCi/L	12/01/20 11:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.07 ± 2.25 (3.79)	pCi/L	12/02/20 15:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-10D **Lab ID: 50272520003** Collected: 11/05/20 11:22 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.412 ± 0.688 (1.20) C:NA T:59%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.114 ± 0.772 (1.97) C:62% T:51%	pCi/L	12/01/20 11:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.412 ± 1.46 (3.17)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-13S **Lab ID: 50272520004** Collected: 11/05/20 12:45 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.338 (0.692) C:NA T:68%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.86 ± 0.835 (1.42) C:64% T:60%	pCi/L	12/01/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.86 ± 1.17 (2.11)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13D Lab ID: 50272520005 Collected: 11/05/20 13:43 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.381 ± 0.355 (0.468) C:NA T:68%	pCi/L	12/02/20 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.15 ± 0.818 (1.61) C:62% T:54%	pCi/L	12/01/20 11:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 1.17 (2.08)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-11D **Lab ID: 50272520006** Collected: 11/05/20 10:35 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.390 ± 0.444 (0.700) C:NA T:66%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0491 ± 0.651 (1.65) C:64% T:55%	pCi/L	12/01/20 11:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.390 ± 1.10 (2.35)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-12S **Lab ID: 50272520007** Collected: 11/05/20 12:30 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0719 ± 0.615 (1.20) C:NA T:70%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.68 ± 0.892 (1.54) C:64% T:65%	pCi/L	12/01/20 11:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.75 ± 1.51 (2.74)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-11S Lab ID: 50272520008 Collected: 11/05/20 12:05 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.669 ± 0.530 (0.720) C:NA T:65%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.812 ± 0.671 (1.34) C:65% T:70%	pCi/L	12/01/20 11:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 1.20 (2.06)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-12D **Lab ID: 50272520009** Collected: 11/05/20 13:25 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.135 ± 0.325 (0.627) C:NA T:66%	pCi/L	12/02/20 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.993 ± 0.771 (1.54) C:64% T:57%	pCi/L	12/01/20 11:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 1.10 (2.17)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: MW-14D **Lab ID: 50272520010** Collected: 11/05/20 12:55 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.391 ± 0.275 (0.133) C:NA T:86%	pCi/L	12/02/20 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.24 ± 0.607 (1.08) C:62% T:82%	pCi/L	12/01/20 11:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.63 ± 0.882 (1.21)	pCi/L	12/02/20 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Sample: DUP 2 **Lab ID: 50272520011** Collected: 11/05/20 00:00 Received: 11/06/20 13:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.285 ± 0.265 (0.349) C:NA T:87%	pCi/L	12/02/20 13:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.683 ± 0.546 (1.09) C:66% T:78%	pCi/L	12/01/20 13:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.968 ± 0.811 (1.44)	pCi/L	12/02/20 15:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13S MS Lab ID: 50272520012 Collected: 11/05/20 12:45 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	125.57 %REC ± NA (NA) C:NA T:NA%	pCi/L	12/02/20 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	187.83 %REC ± NA (NA) C:NA T:NA	pCi/L	12/01/20 11:55	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	93.51 %REC 29.27 RPD ± NA (NA) C:NA T:NA%	pCi/L	12/02/20 14:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	128.30 %REC 37.66 RPD ± NA (NA) C:NA T:NA	pCi/L	12/01/20 11:55	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Fied Blank 1 Lab ID: 50272520014 Collected: 11/05/20 08:00 Received: 11/06/20 13:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0950 ± 0.372 (0.713) C:NA T:87%	pCi/L	12/02/20 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.227 ± 0.477 (1.31) C:62% T:69%	pCi/L	12/01/20 11:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0950 ± 0.849 (2.02)	pCi/L	12/02/20 15:44	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	422649	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50272520011

METHOD BLANK:	2042816	Matrix:	Water
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Associated Lab Samples: 50272520011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.155 ± 0.365 (0.812) C:73% T:79%	pCi/L	12/01/20 13:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch: 422648

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272520011

METHOD BLANK: 2042815

Matrix: Water

Associated Lab Samples: 50272520011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.108 ± 0.292 (0.543) C:NA T:87%	pCi/L	12/02/20 12:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch:	422656	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520012, 50272520013, 50272520014		

METHOD BLANK:	2042837	Matrix:	Water
Associated Lab Samples:	50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520012, 50272520013, 50272520014		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0442 ± 0.229 (0.530) C:NA T:75%	pCi/L	12/02/20 13:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

QC Batch: 422658

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520012, 50272520013, 50272520014

METHOD BLANK: 2042838

Matrix: Water

Associated Lab Samples: 50272520001, 50272520002, 50272520003, 50272520004, 50272520005, 50272520006, 50272520007, 50272520008, 50272520009, 50272520010, 50272520012, 50272520013, 50272520014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.809 ± 0.447 (0.790) C:62% T:79%	pCi/L	12/01/20 11:43	

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272520001	MW-5S	EPA 9056	593499		
50272520002	MW-10S	EPA 9056	593499		
50272520003	MW-10D	EPA 9056	593499		
50272520004	MW-13S	EPA 9056	593499		
50272520005	MW-13D	EPA 9056	593499		
50272520006	MW-11D	EPA 9056	593499		
50272520007	MW-12S	EPA 9056	593499		
50272520008	MW-11S	EPA 9056	593499		
50272520009	MW-12D	EPA 9056	593499		
50272520010	MW-14D	EPA 9056	593499		
50272520011	DUP 2	EPA 9056	593499		
50272520014	Fied Blank 1	EPA 9056	593499		
50272520001	MW-5S	EPA 3010	591727	EPA 6010	592812
50272520002	MW-10S	EPA 3010	591727	EPA 6010	592812
50272520003	MW-10D	EPA 3010	591727	EPA 6010	592812
50272520004	MW-13S	EPA 3010	591727	EPA 6010	592812
50272520005	MW-13D	EPA 3010	591727	EPA 6010	592812
50272520006	MW-11D	EPA 3010	591727	EPA 6010	592812
50272520007	MW-12S	EPA 3010	591727	EPA 6010	592812
50272520008	MW-11S	EPA 3010	591727	EPA 6010	592812
50272520009	MW-12D	EPA 3010	591727	EPA 6010	592812
50272520010	MW-14D	EPA 3010	591727	EPA 6010	592812
50272520011	DUP 2	EPA 3010	591727	EPA 6010	592812
50272520014	Fied Blank 1	EPA 3010	591727	EPA 6010	592812
50272520001	MW-5S	EPA 200.2	591857	EPA 6020	592221
50272520002	MW-10S	EPA 200.2	591857	EPA 6020	592221
50272520003	MW-10D	EPA 200.2	591857	EPA 6020	592221
50272520004	MW-13S	EPA 200.2	591857	EPA 6020	592221
50272520005	MW-13D	EPA 200.2	591857	EPA 6020	592221
50272520006	MW-11D	EPA 200.2	591857	EPA 6020	592221
50272520007	MW-12S	EPA 200.2	591857	EPA 6020	592221
50272520008	MW-11S	EPA 200.2	591857	EPA 6020	592221
50272520009	MW-12D	EPA 200.2	591857	EPA 6020	592221
50272520010	MW-14D	EPA 200.2	591857	EPA 6020	592221
50272520011	DUP 2	EPA 200.2	591857	EPA 6020	592221
50272520014	Fied Blank 1	EPA 200.2	592010	EPA 6020	592437
50272520001	MW-5S	EPA 903.1	422656		
50272520002	MW-10S	EPA 903.1	422656		
50272520003	MW-10D	EPA 903.1	422656		
50272520004	MW-13S	EPA 903.1	422656		
50272520005	MW-13D	EPA 903.1	422656		
50272520006	MW-11D	EPA 903.1	422656		
50272520007	MW-12S	EPA 903.1	422656		
50272520008	MW-11S	EPA 903.1	422656		
50272520009	MW-12D	EPA 903.1	422656		
50272520010	MW-14D	EPA 903.1	422656		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272520011	DUP 2	EPA 903.1	422648		
50272520012	MW-13S MS	EPA 903.1	422656		
50272520013	MW-13S MSD	EPA 903.1	422656		
50272520014	Fied Blank 1	EPA 903.1	422656		
50272520001	MW-5S	EPA 904.0	422658		
50272520002	MW-10S	EPA 904.0	422658		
50272520003	MW-10D	EPA 904.0	422658		
50272520004	MW-13S	EPA 904.0	422658		
50272520005	MW-13D	EPA 904.0	422658		
50272520006	MW-11D	EPA 904.0	422658		
50272520007	MW-12S	EPA 904.0	422658		
50272520008	MW-11S	EPA 904.0	422658		
50272520009	MW-12D	EPA 904.0	422658		
50272520010	MW-14D	EPA 904.0	422658		
50272520011	DUP 2	EPA 904.0	422649		
50272520012	MW-13S MS	EPA 904.0	422658		
50272520013	MW-13S MSD	EPA 904.0	422658		
50272520014	Fied Blank 1	EPA 904.0	422658		
50272520001	MW-5S	Total Radium Calculation	425525		
50272520002	MW-10S	Total Radium Calculation	425524		
50272520003	MW-10D	Total Radium Calculation	425525		
50272520004	MW-13S	Total Radium Calculation	425525		
50272520005	MW-13D	Total Radium Calculation	425525		
50272520006	MW-11D	Total Radium Calculation	425525		
50272520007	MW-12S	Total Radium Calculation	425525		
50272520008	MW-11S	Total Radium Calculation	425525		
50272520009	MW-12D	Total Radium Calculation	425525		
50272520010	MW-14D	Total Radium Calculation	425525		
50272520011	DUP 2	Total Radium Calculation	425524		
50272520014	Fied Blank 1	Total Radium Calculation	425524		
50272520001	MW-5S	SM 2540C	592567		
50272520002	MW-10S	SM 2540C	592567		
50272520003	MW-10D	SM 2540C	592567		
50272520004	MW-13S	SM 2540C	592567		
50272520005	MW-13D	SM 2540C	592567		
50272520006	MW-11D	SM 2540C	592567		
50272520007	MW-12S	SM 2540C	592567		
50272520008	MW-11S	SM 2540C	592567		
50272520009	MW-12D	SM 2540C	592567		
50272520010	MW-14D	SM 2540C	592567		
50272520011	DUP 2	SM 2540C	592567		
50272520014	Fied Blank 1	SM 2540C	592567		
50272520001	MW-5S	SM 4500-H+B	592109		
50272520002	MW-10S	SM 4500-H+B	592109		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272520003	MW-10D	SM 4500-H+B	592109		
50272520004	MW-13S	SM 4500-H+B	592109		
50272520005	MW-13D	SM 4500-H+B	592109		
50272520006	MW-11D	SM 4500-H+B	592109		
50272520007	MW-12S	SM 4500-H+B	592109		
50272520008	MW-11S	SM 4500-H+B	592109		
50272520009	MW-12D	SM 4500-H+B	592109		
50272520010	MW-14D	SM 4500-H+B	592109		
50272520011	DUP 2	SM 4500-H+B	592109		
50272520014	Fied Blank 1	SM 4500-H+B	592109		

REPORT OF LABORATORY ANALYSIS

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WO# : 50272520



50272520

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C
Requester Information:

Section C
Invoice Information:

Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.breting@alcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding St Profile 1 Report 1	Pace Project Manager: donna.spyker@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6246/1

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED START DATE TIME END DATE TIME	PRESERVATIVES Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	ANALYSES TEST Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)			
							SAMPLE TYPE (see valid codes to left) G=GRAB C=COMP		# OF CONTAINERS		IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad-226	IN Rad-228							
							DATE	TIME	DATE	TIME												
1	MW-1S	WT					X	X	X	X	X	X										
2	MW-1D	WT					X	X	X	X	X	X										
3	MW-2S	WT					X	X	X	X	X	X										
4	MW-2D	WT					X	X	X	X	X	X										
5	MW-3S	WT					X	X	X	X	X	X										
6	MW-3D	WT					X	X	X	X	X	X										
7	MW-4S	WT					X	X	X	X	X	X										
8	MW-5S	WT		11-5-20 14:55			X	X	X	X	X	X							601			
9	MW-6S	WT					X	X	X	X	X	X										
10	MW-7S	WT					X	X	X	X	X	X										
11	MW-7D	WT					X	X	X	X	X	X										
12	MW-8S	WT					X	X	X	X	X	X										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Mark Breting / ATC</i>	11/6/20	1220	<i>Zeljko Jur Pace</i>	11/6/20	1220	
	<i>Zeljko Jur Pace</i>	11/6/20	1305	<i>[Signature]</i>	11/6/20	1305	SEE SIGNATURE

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed: 11-5-20				



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: ATC Group Services		Report To: Mark Breting		Attention:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:	
Indianapolis, IN 46256		Purchase Order #:		Address:	
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Quote:	
Phone: NONE	Fax:	Pace Project Manager: donna.spyker@pacelabs.com,		Regulatory Agency:	
Requested Due Date:		Project #:		Pace Profile #: 6246/1	
				State / Location: IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Analyses: Test Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)		
				START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad-226		IN Rad-228	
				DATE	TIME	DATE	TIME																	
13	MW-9S	WT																						
14	MW-9I	WT																						
15	MW-9D	WT																						
16	MW-10S	WT			11/5/20	0952	5	2		3														002
17	MW-10D	WT			11/5/20	1122	5	2		3														003
18	MW-11D	WT																						
19	MW-12S	WT																						
20	MW-11S	WT																						
21	MW-12D	WT																						
22	MW-13S	WT			11/5/20	1245	5	2		3														004
23	MW-13D	WT			11/5/20	1343	5	2		3														005
24	MW-14D	WT																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Breting/ATC	11/6/20	1220	Zachary [Signature]	11/6/20	1220	
	Zachary [Signature]	11/6/20	1305	[Signature]	11/6/20	1305	563500

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Mark Breting						
SIGNATURE of SAMPLER: Mark Breting						



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company: ATC Group Services		Report To: Mark Breting		Attention:			
Address: 7988 Centerpoint Drive		Copy To:		Company Name:			
Indianapolis, IN 46256		Purchase Order #:		Address:			
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Project Manager: donna.spyker@pacelabs.com,		State / Location:	
Phone: NONE Fax:		Project #:		Pace Profile #: 6246/1		IN	
Requested Due Date:							

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED	START	END	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses: Test Y/N	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)				
									UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	IN Metals, Total	IN TDS/pH				IN Chloride, Fluoride, Sulfate	IN Rad-226	IN Rad-228	
13	MW-9S		WT															X	X	X	X	X			
14	MW-9I		WT															X	X	X	X	X			
15	MW-9D		WT															X	X	X	X	X			
16	MW-10S		WT															X	X	X	X	X			
17	MW-10D		WT															X	X	X	X	X			
18	MW-11D		WT			11-5-20 10:35		X	X		X							X	X	X	X	X			006
19	MW-12S		WT			11-5-20 12:30		X	X		X							X	X	X	X	X			007
20	MW-11S		WT			11-5-20 12:05		X	X		X							X	X	X	X	X			008
21	MW-12D		WT			11-5-20 13:25		X	X		X							X	X	X	X	X			009
22	MW-13S		WT															X	X	X	X	X			
23	MW-13D		WT															X	X	X	X	X			
24	MW-14D		WT			11-5-20 12:55		X	X		X							X	X	X	X	X			010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Breting / ATC	11/6/20	1220	Zeljko Trupac	11/6/20	1220	
	Zeljko Trupac	11/6/20	1305		11/6/20	1305	542 Seal

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Andry Jasnowich				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed:	11-5-20		



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency
Company: ATC Group Services		Report To: Mark Breting		Attention:		
Address: 7988 Centerpoint Drive		Copy To:		Company Name:		
Indianapolis, IN 46256		Purchase Order #:		Address:		
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Project Manager: donna.spyker@pacelabs.com,		
Phone: NONE Fax:		Project #:		Pace Profile #: 6246/1		State / Location
Requested Due Date:						IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	
						DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad-226		IN Rad-228
25	MW-15S				WT													X	X	X	X	X				
26	MW-15I				WT													X	X	X	X	X				
27	MW-15D				WT													X	X	X	X	X				
28	DUP 1				WT													X	X	X	X	X				
29	DUP 2				WT			11/5/20	0000		5	2		3				X	X	X	X	X				
30	Field Blank 1				WT													X	X	X	X	X				014
31	MS1				WT			11/5/20	1245		5	2		3				X	X	X	X	X				MW-135 012
32	MSD1				WT			11/5/20	1245		5	2		3				X	X	X	X	X				MW-135 013
33	MS2				WT													X	X	X	X	X				dss 110920
34	MSD2				WT													X	X	X	X	X				
35	Extra 1				WT													X	X	X	X	X				
36	Extra 2				WT													X	X	X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Breting / ATC	11/6/20	1220	Zelma J. Paul	11/6/20	1220	
	Zelma J. Paul	11/6/20	305		11/6/20	1325	5th E 5th W

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Mark Breting						
SIGNATURE of SAMPLER: <i>Mark Breting</i>						
DATE Signed: 11/6/20						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TRW 11/16/20 1530

Courier: Fed Ex UPS Client Face USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: SEE COMMENTS If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	/		
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Rush TAT Requested (4 days or less):		/	Headspace Wisconsin Sulfide?			/
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm):			/
Containers Intact?:	/		Trip Blank Present?		/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Custody Seals?:		/	
Extra labels on Terracore Vials? (soils only)		/				

COMMENTS: 15/11 1.8/1.2 1.7/1.6 2.0/1.9 1.4/1.3

Sample Container Count

Sample Line Item	WGUFU	R	SBS DI BK Kit	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10	
																																1
2																																
3																																
4																																
5																																
6																																
7																																
8															2	1	1															W ✓
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGFU	SBS DI BK Kit R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
1																															
2																															
3																															
4														2	1	1	1										55	✓			
5													2	1	1	1										55	✓				
6																															
7																															
8																															
9																															
10													6	3	3	3										55	✓				
11													2	1	1	1										55	✓				
12																															

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL. HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGFU	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10				
																															1			
2																																		
3																																		
4																																		
5															2	1	1	1															WT ✓	
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL. HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 3
Pace Project No.: 50272524

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272524001	Field Blank 3	Water	11/06/20 14:00	11/06/20 15:50
50272524002	P1 PZ-1D	Water	11/06/20 12:45	11/06/20 15:50
50272524003	P1 PZ-1S	Water	11/06/20 14:00	11/06/20 15:50
50272524004	P2 A/B PZ-1D	Water	11/06/20 12:40	11/06/20 15:50
50272524005	P2 A/B PZ-2D	Water	11/06/20 11:24	11/06/20 15:50
50272524006	P2 A/B PZ-2S	Water	11/06/20 09:23	11/06/20 15:50
50272524007	P2 PZ-1S	Water	11/06/20 10:00	11/06/20 15:50
50272524008	P2 PZ-2S	Water	11/06/20 13:35	11/06/20 15:50
50272524009	P2 PZ-2D	Water	11/06/20 12:25	11/06/20 15:50

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272524001	Field Blank 3	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524002	P1 PZ-1D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524003	P1 PZ-1S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524004	P2 A/B PZ-1D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524005	P2 A/B PZ-2D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524006	P2 A/B PZ-2S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272524007	P2 PZ-1S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272524008	P2 PZ-2S	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
50272524009	P2 PZ-2D	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	CAW, RAM	5	PASI-I
		SM 2540C	MMS	1	PASI-I
SM 4500-H+B	TPD	1	PASI-I		

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272524001	Field Blank 3					
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	11/10/20 15:00	H3
50272524002	P1 PZ-1D					
EPA 9056	Chloride	149	mg/L	25.0	11/17/20 13:44	
EPA 9056	Fluoride	0.55	mg/L	0.10	11/17/20 13:27	
EPA 9056	Sulfate	328	mg/L	25.0	11/17/20 13:44	
EPA 6010	Barium	49.6	ug/L	10.0	11/14/20 02:11	
EPA 6010	Boron	14900	ug/L	100	11/14/20 02:11	
EPA 6010	Calcium	135000	ug/L	1000	11/14/20 02:11	
EPA 6010	Lithium	43.1	ug/L	20.0	11/14/20 02:11	
EPA 6010	Molybdenum	407	ug/L	10.0	11/14/20 02:11	
EPA 6010	Iron, Dissolved	107	ug/L	100	11/17/20 01:13	
EPA 6010	Lithium, Dissolved	41.8	ug/L	20.0	11/17/20 01:13	
EPA 6010	Manganese, Dissolved	111	ug/L	10.0	11/17/20 01:13	
EPA 6010	Molybdenum, Dissolved	388	ug/L	10.0	11/17/20 01:13	
EPA 6020	Arsenic	34.3	ug/L	1.0	11/11/20 22:49	
SM 2540C	Total Dissolved Solids	958	mg/L	20.0	11/12/20 10:49	
SM 4500-H+B	pH at 25 Degrees C	8.3	Std. Units	0.10	11/10/20 15:01	H3
50272524003	P1 PZ-1S					
EPA 9056	Chloride	13.6	mg/L	2.5	11/17/20 14:16	
EPA 9056	Fluoride	0.40	mg/L	0.10	11/17/20 14:00	
EPA 9056	Sulfate	1710	mg/L	25.0	11/17/20 14:33	
EPA 6010	Barium	54.5	ug/L	10.0	11/14/20 02:14	
EPA 6010	Boron	59400	ug/L	100	11/14/20 02:14	
EPA 6010	Calcium	727000	ug/L	5000	11/14/20 03:11	
EPA 6010	Lithium	76.0	ug/L	20.0	11/14/20 02:14	
EPA 6010	Molybdenum	1700	ug/L	10.0	11/14/20 02:14	
EPA 6010	Lithium, Dissolved	75.5	ug/L	20.0	11/17/20 01:15	
EPA 6010	Molybdenum, Dissolved	1720	ug/L	10.0	11/17/20 01:15	
EPA 6020	Antimony	15.6	ug/L	1.0	11/11/20 22:53	
EPA 6020	Arsenic	97.4	ug/L	1.0	11/11/20 22:53	
EPA 6020	Beryllium	0.30	ug/L	0.20	11/12/20 20:08	
EPA 6020	Cobalt	1.2	ug/L	1.0	11/11/20 22:53	
EPA 6020	Selenium	394	ug/L	1.0	11/11/20 22:53	
SM 2540C	Total Dissolved Solids	2950	mg/L	40.0	11/12/20 14:09	
SM 4500-H+B	pH at 25 Degrees C	8.9	Std. Units	0.10	11/10/20 15:02	H3
50272524004	P2 A/B PZ-1D					
EPA 9056	Chloride	239	mg/L	25.0	11/17/20 15:06	
EPA 9056	Fluoride	2.4	mg/L	0.10	11/17/20 14:49	
EPA 9056	Sulfate	247	mg/L	25.0	11/17/20 15:06	
EPA 6010	Barium	36.1	ug/L	10.0	11/14/20 02:16	
EPA 6010	Boron	1730	ug/L	100	11/14/20 02:16	
EPA 6010	Calcium	133000	ug/L	1000	11/14/20 02:16	
EPA 6010	Lithium	35.8	ug/L	20.0	11/14/20 02:16	
EPA 6010	Molybdenum	80.6	ug/L	10.0	11/14/20 02:16	
EPA 6010	Iron, Dissolved	1260	ug/L	100	11/17/20 01:18	
EPA 6010	Lithium, Dissolved	38.6	ug/L	20.0	11/17/20 01:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272524004	P2 A/B PZ-1D					
EPA 6010	Manganese, Dissolved	400	ug/L	10.0	11/17/20 01:18	
EPA 6010	Molybdenum, Dissolved	89.0	ug/L	10.0	11/17/20 01:18	
EPA 6020	Arsenic	92.5	ug/L	1.0	11/11/20 22:58	
SM 2540C	Total Dissolved Solids	1100	mg/L	20.0	11/12/20 14:09	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/10/20 15:04	H3
50272524005	P2 A/B PZ-2D					
EPA 9056	Chloride	217	mg/L	25.0	11/17/20 16:11	
EPA 9056	Fluoride	3.0	mg/L	0.10	11/17/20 15:55	
EPA 9056	Sulfate	244	mg/L	25.0	11/17/20 16:11	
EPA 6010	Barium	42.3	ug/L	10.0	11/14/20 02:19	
EPA 6010	Boron	1760	ug/L	100	11/14/20 02:19	
EPA 6010	Calcium	140000	ug/L	1000	11/14/20 02:19	
EPA 6010	Lithium	33.8	ug/L	20.0	11/14/20 02:19	
EPA 6010	Molybdenum	63.3	ug/L	10.0	11/14/20 02:19	
EPA 6010	Iron, Dissolved	782	ug/L	100	11/17/20 01:20	
EPA 6010	Lithium, Dissolved	34.6	ug/L	20.0	11/17/20 01:20	
EPA 6010	Manganese, Dissolved	328	ug/L	10.0	11/17/20 01:20	
EPA 6010	Molybdenum, Dissolved	68.3	ug/L	10.0	11/17/20 01:20	
EPA 6020	Arsenic	36.0	ug/L	1.0	11/11/20 23:11	
EPA 6020	Cobalt	1.4	ug/L	1.0	11/11/20 23:11	
SM 2540C	Total Dissolved Solids	1050	mg/L	20.0	11/12/20 14:10	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/10/20 15:06	H3
50272524006	P2 A/B PZ-2S					
EPA 9056	Chloride	393	mg/L	25.0	11/17/20 16:44	
EPA 9056	Fluoride	2.6	mg/L	0.10	11/17/20 16:27	
EPA 9056	Sulfate	1210	mg/L	25.0	11/17/20 16:44	
EPA 6010	Lithium, Dissolved	20.0	ug/L	20.0	11/17/20 01:22	
EPA 6010	Manganese, Dissolved	1520	ug/L	10.0	11/17/20 01:22	
EPA 6010	Molybdenum, Dissolved	38.4	ug/L	10.0	11/17/20 01:22	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/10/20 15:07	H3
50272524007	P2 PZ-1S					
EPA 9056	Chloride	72.1	mg/L	25.0	11/17/20 17:25	
EPA 9056	Sulfate	1730	mg/L	25.0	11/17/20 17:25	
EPA 6010	Barium	77.4	ug/L	10.0	11/14/20 02:21	
EPA 6010	Boron	25600	ug/L	100	11/14/20 02:21	
EPA 6010	Calcium	580000	ug/L	5000	11/14/20 03:13	
EPA 6010	Chromium	17.9	ug/L	10.0	11/14/20 02:21	
EPA 6010	Lead	24.7	ug/L	10.0	11/14/20 02:21	
EPA 6010	Lithium	78.2	ug/L	20.0	11/14/20 02:21	
EPA 6010	Molybdenum	1470	ug/L	10.0	11/14/20 02:21	
EPA 6010	Iron, Dissolved	125	ug/L	100	11/17/20 01:25	
EPA 6010	Lithium, Dissolved	76.4	ug/L	20.0	11/17/20 01:25	
EPA 6010	Manganese, Dissolved	124	ug/L	10.0	11/17/20 01:25	
EPA 6010	Molybdenum, Dissolved	1650	ug/L	10.0	11/17/20 01:25	
EPA 6020	Antimony	1.9	ug/L	1.0	11/11/20 23:20	
EPA 6020	Arsenic	398	ug/L	5.0	11/12/20 13:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272524007	P2 PZ-1S					
EPA 6020	Beryllium	2.5	ug/L	0.20	11/12/20 20:38	
EPA 6020	Cobalt	4.0	ug/L	1.0	11/11/20 23:20	
SM 2540C	Total Dissolved Solids	2830	mg/L	40.0	11/12/20 14:10	
SM 4500-H+B	pH at 25 Degrees C	8.2	Std. Units	0.10	11/10/20 15:08	H3
50272524008	P2 PZ-2S					
EPA 9056	Chloride	107	mg/L	25.0	11/17/20 17:58	
EPA 9056	Sulfate	1940	mg/L	25.0	11/17/20 17:58	
EPA 6010	Barium	362	ug/L	10.0	11/14/20 02:23	
EPA 6010	Boron	31600	ug/L	100	11/14/20 02:23	
EPA 6010	Calcium	660000	ug/L	5000	11/14/20 03:15	
EPA 6010	Chromium	56.6	ug/L	10.0	11/14/20 02:23	
EPA 6010	Lead	74.6	ug/L	10.0	11/14/20 02:23	
EPA 6010	Lithium	303	ug/L	20.0	11/14/20 02:23	
EPA 6010	Molybdenum	1780	ug/L	10.0	11/14/20 02:23	
EPA 6010	Lithium, Dissolved	292	ug/L	20.0	11/17/20 01:27	
EPA 6010	Manganese, Dissolved	14.6	ug/L	10.0	11/17/20 01:27	
EPA 6010	Molybdenum, Dissolved	2010	ug/L	10.0	11/17/20 01:27	
EPA 6020	Antimony	6.3	ug/L	1.0	11/11/20 23:28	
EPA 6020	Arsenic	910	ug/L	5.0	11/12/20 13:33	
EPA 6020	Beryllium	9.7	ug/L	0.20	11/12/20 20:43	
EPA 6020	Cobalt	16.3	ug/L	1.0	11/11/20 23:28	
EPA 6020	Selenium	2.9	ug/L	1.0	11/11/20 23:28	
SM 2540C	Total Dissolved Solids	2980	mg/L	40.0	11/12/20 14:10	
SM 4500-H+B	pH at 25 Degrees C	9.2	Std. Units	0.10	11/10/20 15:09	H3
50272524009	P2 PZ-2D					
EPA 9056	Chloride	142	mg/L	25.0	11/17/20 19:36	
EPA 9056	Sulfate	1110	mg/L	25.0	11/17/20 19:36	M6
EPA 6010	Barium	658	ug/L	10.0	11/14/20 02:26	
EPA 6010	Boron	20800	ug/L	100	11/14/20 02:26	
EPA 6010	Calcium	452000	ug/L	5000	11/14/20 03:17	
EPA 6010	Chromium	152	ug/L	10.0	11/14/20 02:26	
EPA 6010	Lead	214	ug/L	10.0	11/14/20 02:26	
EPA 6010	Lithium	260	ug/L	20.0	11/14/20 02:26	
EPA 6010	Molybdenum	792	ug/L	10.0	11/14/20 02:26	
EPA 6010	Lithium, Dissolved	169	ug/L	20.0	11/17/20 01:30	
EPA 6010	Manganese, Dissolved	125	ug/L	10.0	11/17/20 01:30	
EPA 6010	Molybdenum, Dissolved	820	ug/L	10.0	11/17/20 01:30	
EPA 6020	Antimony	5.5	ug/L	1.0	11/11/20 22:10	
EPA 6020	Arsenic	592	ug/L	10.0	11/17/20 01:53	
EPA 6020	Beryllium	31.9	ug/L	1.0	11/12/20 13:46	
EPA 6020	Cobalt	49.1	ug/L	2.0	11/12/20 15:03	
EPA 6020	Selenium	13.2	ug/L	10.0	11/17/20 01:53	
SM 2540C	Total Dissolved Solids	1940	mg/L	66.7	11/12/20 14:10	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/10/20 15:10	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: Field Blank 3	Lab ID: 50272524001	Collected: 11/06/20 14:00	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		11/17/20 13:11	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/17/20 13:11	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/17/20 13:11	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:05	7440-39-3	
Boron	ND	ug/L	100	1	11/13/20 10:48	11/14/20 02:05	7440-42-8	
Calcium	ND	ug/L	1000	1	11/13/20 10:48	11/14/20 02:05	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:05	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:05	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:05	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:05	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	ND	ug/L	100	1	11/14/20 06:40	11/17/20 01:06	7439-89-6	
Lithium, Dissolved	ND	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:06	7439-93-2	
Manganese, Dissolved	ND	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:06	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:06	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:52	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:52	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/11/20 08:02	11/11/20 20:52	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:52	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 20:52	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/12/20 10:49		PL
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		11/10/20 15:00		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P1 PZ-1D	Lab ID: 50272524002	Collected: 11/06/20 12:45	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	149	mg/L	25.0	100		11/17/20 13:44	16887-00-6	
Fluoride	0.55	mg/L	0.10	1		11/17/20 13:27	16984-48-8	
Sulfate	328	mg/L	25.0	100		11/17/20 13:44	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	49.6	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:11	7440-39-3	
Boron	14900	ug/L	100	1	11/13/20 10:48	11/14/20 02:11	7440-42-8	
Calcium	135000	ug/L	1000	1	11/13/20 10:48	11/14/20 02:11	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:11	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:11	7439-92-1	
Lithium	43.1	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:11	7439-93-2	
Molybdenum	407	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:11	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	107	ug/L	100	1	11/14/20 06:40	11/17/20 01:13	7439-89-6	
Lithium, Dissolved	41.8	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:13	7439-93-2	
Manganese, Dissolved	111	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:13	7439-96-5	
Molybdenum, Dissolved	388	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:13	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:49	7440-36-0	
Arsenic	34.3	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:49	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:04	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:49	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:49	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	958	mg/L	20.0	1		11/12/20 10:49		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.3	Std. Units	0.10	1		11/10/20 15:01		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P1 PZ-1S		Lab ID: 50272524003	Collected: 11/06/20 14:00	Received: 11/06/20 15:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	13.6	mg/L	2.5	10		11/17/20 14:16	16887-00-6	
Fluoride	0.40	mg/L	0.10	1		11/17/20 14:00	16984-48-8	
Sulfate	1710	mg/L	25.0	100		11/17/20 14:33	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	54.5	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:14	7440-39-3	
Boron	59400	ug/L	100	1	11/13/20 10:48	11/14/20 02:14	7440-42-8	
Calcium	727000	ug/L	5000	5	11/13/20 10:48	11/14/20 03:11	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:14	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:14	7439-92-1	
Lithium	76.0	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:14	7439-93-2	
Molybdenum	1700	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:14	7439-98-7	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Iron, Dissolved	ND	ug/L	100	1	11/14/20 06:40	11/17/20 01:15	7439-89-6	
Lithium, Dissolved	75.5	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:15	7439-93-2	
Manganese, Dissolved	ND	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:15	7439-96-5	
Molybdenum, Dissolved	1720	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:15	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	15.6	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:53	7440-36-0	
Arsenic	97.4	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:53	7440-38-2	
Beryllium	0.30	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:08	7440-41-7	
Cobalt	1.2	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:53	7440-48-4	
Selenium	394	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:53	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	2950	mg/L	40.0	1		11/12/20 14:09		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	8.9	Std. Units	0.10	1		11/10/20 15:02		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 A/B PZ-1D	Lab ID: 50272524004	Collected: 11/06/20 12:40	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	239	mg/L	25.0	100		11/17/20 15:06	16887-00-6	
Fluoride	2.4	mg/L	0.10	1		11/17/20 14:49	16984-48-8	
Sulfate	247	mg/L	25.0	100		11/17/20 15:06	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	36.1	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:16	7440-39-3	
Boron	1730	ug/L	100	1	11/13/20 10:48	11/14/20 02:16	7440-42-8	
Calcium	133000	ug/L	1000	1	11/13/20 10:48	11/14/20 02:16	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:16	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:16	7439-92-1	
Lithium	35.8	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:16	7439-93-2	
Molybdenum	80.6	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:16	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	1260	ug/L	100	1	11/14/20 06:40	11/17/20 01:18	7439-89-6	
Lithium, Dissolved	38.6	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:18	7439-93-2	
Manganese, Dissolved	400	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:18	7439-96-5	
Molybdenum, Dissolved	89.0	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:18	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:58	7440-36-0	
Arsenic	92.5	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:58	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:12	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:58	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:58	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1100	mg/L	20.0	1		11/12/20 14:09		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/10/20 15:04		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 A/B PZ-2D	Lab ID: 50272524005	Collected: 11/06/20 11:24	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	217	mg/L	25.0	100		11/17/20 16:11	16887-00-6	
Fluoride	3.0	mg/L	0.10	1		11/17/20 15:55	16984-48-8	
Sulfate	244	mg/L	25.0	100		11/17/20 16:11	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	42.3	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:19	7440-39-3	
Boron	1760	ug/L	100	1	11/13/20 10:48	11/14/20 02:19	7440-42-8	
Calcium	140000	ug/L	1000	1	11/13/20 10:48	11/14/20 02:19	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:19	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:19	7439-92-1	
Lithium	33.8	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:19	7439-93-2	
Molybdenum	63.3	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:19	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	782	ug/L	100	1	11/14/20 06:40	11/17/20 01:20	7439-89-6	
Lithium, Dissolved	34.6	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:20	7439-93-2	
Manganese, Dissolved	328	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:20	7439-96-5	
Molybdenum, Dissolved	68.3	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:20	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:11	7440-36-0	
Arsenic	36.0	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:11	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:34	7440-41-7	
Cobalt	1.4	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:11	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:11	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1050	mg/L	20.0	1		11/12/20 14:10		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/10/20 15:06		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 A/B PZ-2S		Lab ID: 50272524006		Collected: 11/06/20 09:23		Received: 11/06/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	393	mg/L	25.0	100		11/17/20 16:44	16887-00-6		
Fluoride	2.6	mg/L	0.10	1		11/17/20 16:27	16984-48-8		
Sulfate	1210	mg/L	25.0	100		11/17/20 16:44	14808-79-8		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Iron, Dissolved	ND	ug/L	100	1	11/14/20 06:40	11/17/20 01:22	7439-89-6		
Lithium, Dissolved	20.0	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:22	7439-93-2		
Manganese, Dissolved	1520	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:22	7439-96-5		
Molybdenum, Dissolved	38.4	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:22	7439-98-7		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/10/20 15:07		H3	

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 PZ-1S	Lab ID: 50272524007	Collected: 11/06/20 10:00	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	72.1	mg/L	25.0	100		11/17/20 17:25	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/17/20 17:00	16984-48-8	
Sulfate	1730	mg/L	25.0	100		11/17/20 17:25	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	77.4	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:21	7440-39-3	
Boron	25600	ug/L	100	1	11/13/20 10:48	11/14/20 02:21	7440-42-8	
Calcium	580000	ug/L	5000	5	11/13/20 10:48	11/14/20 03:13	7440-70-2	
Chromium	17.9	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:21	7440-47-3	
Lead	24.7	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:21	7439-92-1	
Lithium	78.2	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:21	7439-93-2	
Molybdenum	1470	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:21	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	125	ug/L	100	1	11/14/20 06:40	11/17/20 01:25	7439-89-6	
Lithium, Dissolved	76.4	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:25	7439-93-2	
Manganese, Dissolved	124	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:25	7439-96-5	
Molybdenum, Dissolved	1650	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:25	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.9	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:20	7440-36-0	
Arsenic	398	ug/L	5.0	5	11/11/20 08:02	11/12/20 13:29	7440-38-2	
Beryllium	2.5	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:38	7440-41-7	
Cobalt	4.0	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:20	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:20	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2830	mg/L	40.0	1		11/12/20 14:10		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.2	Std. Units	0.10	1		11/10/20 15:08		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 PZ-2S	Lab ID: 50272524008	Collected: 11/06/20 13:35	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	107	mg/L	25.0	100		11/17/20 17:58	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/17/20 17:41	16984-48-8	
Sulfate	1940	mg/L	25.0	100		11/17/20 17:58	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	362	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:23	7440-39-3	
Boron	31600	ug/L	100	1	11/13/20 10:48	11/14/20 02:23	7440-42-8	
Calcium	660000	ug/L	5000	5	11/13/20 10:48	11/14/20 03:15	7440-70-2	
Chromium	56.6	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:23	7440-47-3	
Lead	74.6	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:23	7439-92-1	
Lithium	303	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:23	7439-93-2	
Molybdenum	1780	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:23	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	ND	ug/L	100	1	11/14/20 06:40	11/17/20 01:27	7439-89-6	
Lithium, Dissolved	292	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:27	7439-93-2	
Manganese, Dissolved	14.6	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:27	7439-96-5	
Molybdenum, Dissolved	2010	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:27	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	6.3	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:28	7440-36-0	
Arsenic	910	ug/L	5.0	5	11/11/20 08:02	11/12/20 13:33	7440-38-2	
Beryllium	9.7	ug/L	0.20	1	11/11/20 08:02	11/12/20 20:43	7440-41-7	
Cobalt	16.3	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:28	7440-48-4	
Selenium	2.9	ug/L	1.0	1	11/11/20 08:02	11/11/20 23:28	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2980	mg/L	40.0	1		11/12/20 14:10		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	9.2	Std. Units	0.10	1		11/10/20 15:09		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Sample: P2 PZ-2D	Lab ID: 50272524009	Collected: 11/06/20 12:25	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	142	mg/L	25.0	100		11/17/20 19:36	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/17/20 18:45	16984-48-8	
Sulfate	1110	mg/L	25.0	100		11/17/20 19:36	14808-79-8	M6
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	658	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:26	7440-39-3	
Boron	20800	ug/L	100	1	11/13/20 10:48	11/14/20 02:26	7440-42-8	
Calcium	452000	ug/L	5000	5	11/13/20 10:48	11/14/20 03:17	7440-70-2	
Chromium	152	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:26	7440-47-3	
Lead	214	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:26	7439-92-1	
Lithium	260	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:26	7439-93-2	
Molybdenum	792	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:26	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	ND	ug/L	100	1	11/14/20 06:40	11/17/20 01:30	7439-89-6	
Lithium, Dissolved	169	ug/L	20.0	1	11/14/20 06:40	11/17/20 01:30	7439-93-2	
Manganese, Dissolved	125	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:30	7439-96-5	
Molybdenum, Dissolved	820	ug/L	10.0	1	11/14/20 06:40	11/17/20 01:30	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	5.5	ug/L	1.0	1	11/11/20 08:02	11/11/20 22:10	7440-36-0	
Arsenic	592	ug/L	10.0	10	11/11/20 08:02	11/17/20 01:53	7440-38-2	
Beryllium	31.9	ug/L	1.0	5	11/11/20 08:02	11/12/20 13:46	7440-41-7	
Cobalt	49.1	ug/L	2.0	2	11/11/20 08:02	11/12/20 15:03	7440-48-4	
Selenium	13.2	ug/L	10.0	10	11/11/20 08:02	11/17/20 01:53	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1940	mg/L	66.7	1		11/12/20 14:10		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/10/20 15:10		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch:	593501	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524006, 50272524007, 50272524008, 50272524009		

METHOD BLANK:	2738337	Matrix:	Water
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524006, 50272524007, 50272524008, 50272524009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/17/20 12:38	
Fluoride	mg/L	ND	0.10	11/17/20 12:38	
Sulfate	mg/L	ND	0.25	11/17/20 12:38	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

Parameter	Units	50272524009		2738339		2738340		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	142	125	125	265	273	98	105	80-120	3	15
Fluoride	mg/L	ND	0.5	0.5	0.51	0.50	95	93	80-120	2	15
Sulfate	mg/L	1110	250	250	1380	1430	108	126	80-120	3	15 M6

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch:	592267	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009		

METHOD BLANK:	2732340	Matrix:	Water
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/14/20 01:38	
Boron	ug/L	ND	100	11/14/20 01:38	
Calcium	ug/L	ND	1000	11/14/20 01:38	
Chromium	ug/L	ND	10.0	11/14/20 01:38	
Lead	ug/L	ND	10.0	11/14/20 01:38	
Lithium	ug/L	ND	20.0	11/14/20 01:38	
Molybdenum	ug/L	ND	10.0	11/14/20 01:38	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	945	95	80-120	
Boron	ug/L	1000	948	95	80-120	
Calcium	ug/L	10000	9720	97	80-120	
Chromium	ug/L	1000	962	96	80-120	
Lead	ug/L	1000	957	96	80-120	
Lithium	ug/L	1000	952	95	80-120	
Molybdenum	ug/L	1000	990	99	80-120	

Parameter	Units	2732342		2732343		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Barium	ug/L	658	1000	1630	1780	97	112	75-125	9	20	
Boron	ug/L	20800	1000	21800	24200	103	338	75-125	10	20	P6
Calcium	ug/L	452000	10000	447000	414000	-50	-382	75-125	8	20	P6
Chromium	ug/L	152	1000	1040	1120	89	97	75-125	7	20	
Lead	ug/L	214	1000	1110	1210	90	99	75-125	8	20	
Lithium	ug/L	260	1000	1240	1350	98	109	75-125	9	20	
Molybdenum	ug/L	792	1000	1750	1910	95	112	75-125	9	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3
Pace Project No.: 50272524

QC Batch: 592557 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524006, 50272524007, 50272524008, 50272524009

METHOD BLANK: 2733852 Matrix: Water
Associated Lab Samples: 50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524006, 50272524007, 50272524008, 50272524009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	100	11/17/20 00:45	
Lithium, Dissolved	ug/L	ND	20.0	11/17/20 00:45	
Manganese, Dissolved	ug/L	ND	10.0	11/17/20 00:45	
Molybdenum, Dissolved	ug/L	ND	10.0	11/17/20 00:45	

LABORATORY CONTROL SAMPLE: 2733853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9580	96	80-120	
Lithium, Dissolved	ug/L	1000	990	99	80-120	
Manganese, Dissolved	ug/L	1000	959	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733854 2733855

Parameter	Units	50272524009		2733854		2733855		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Iron, Dissolved	ug/L	ND	10000	10000	9110	9260	91	92	75-125	2	20
Lithium, Dissolved	ug/L	169	1000	1000	1200	1220	103	105	75-125	2	20
Manganese, Dissolved	ug/L	125	1000	1000	1050	1060	92	94	75-125	1	20
Molybdenum, Dissolved	ug/L	820	1000	1000	1840	1860	102	104	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch:	592010	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009		

METHOD BLANK:	2731184	Matrix:	Water
Associated Lab Samples:	50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/11/20 20:39	
Arsenic	ug/L	ND	1.0	11/11/20 20:39	
Beryllium	ug/L	ND	0.20	11/11/20 20:39	
Cobalt	ug/L	ND	1.0	11/11/20 20:39	
Selenium	ug/L	ND	1.0	11/11/20 20:39	

LABORATORY CONTROL SAMPLE: 2731185						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.8	104	80-120	
Arsenic	ug/L	40	38.2	95	80-120	
Beryllium	ug/L	40	38.7	97	80-120	
Cobalt	ug/L	40	39.1	98	80-120	
Selenium	ug/L	40	39.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2731186 2731187											
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272524009	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	5.5	40	40	16.0	15.7	26	25	75-125	2	20 M3
Arsenic	ug/L	592	40	40	628	628	90	90	75-125	0	20
Beryllium	ug/L	31.9	40	40	68.9	68.7	92	92	75-125	0	20
Cobalt	ug/L	49.1	40	40	77.9	78.2	72	73	75-125	0	20 M3
Selenium	ug/L	13.2	40	40	45.1	45.1	80	80	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch: 592567	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272524001, 50272524002

METHOD BLANK: 2733894 Matrix: Water

Associated Lab Samples: 50272524001, 50272524002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 10:47	

LABORATORY CONTROL SAMPLE: 2733895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	302	101	80-120	

SAMPLE DUPLICATE: 2733896

Parameter	Units	50272520004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1420	1	10	

SAMPLE DUPLICATE: 2733897

Parameter	Units	50272616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	973	973	0	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch: 592592 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009

METHOD BLANK: 2734004 Matrix: Water
 Associated Lab Samples: 50272524003, 50272524004, 50272524005, 50272524007, 50272524008, 50272524009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 14:07	

LABORATORY CONTROL SAMPLE: 2734005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 2734007

Parameter	Units	50272558002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	360	343	5	10	

SAMPLE DUPLICATE: 2734054

Parameter	Units	50272524009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1940	1970	2	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

QC Batch:	592149	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272524001, 50272524002, 50272524003, 50272524004, 50272524005, 50272524006, 50272524007, 50272524008, 50272524009

SAMPLE DUPLICATE: 2731877

Parameter	Units	50272391002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

SAMPLE DUPLICATE: 2731878

Parameter	Units	50272524009 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	2	H3

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QUALIFIERS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272524001	Field Blank 3	EPA 9056	593501		
50272524002	P1 PZ-1D	EPA 9056	593501		
50272524003	P1 PZ-1S	EPA 9056	593501		
50272524004	P2 A/B PZ-1D	EPA 9056	593501		
50272524005	P2 A/B PZ-2D	EPA 9056	593501		
50272524006	P2 A/B PZ-2S	EPA 9056	593501		
50272524007	P2 PZ-1S	EPA 9056	593501		
50272524008	P2 PZ-2S	EPA 9056	593501		
50272524009	P2 PZ-2D	EPA 9056	593501		
50272524001	Field Blank 3	EPA 3010	592267	EPA 6010	593068
50272524002	P1 PZ-1D	EPA 3010	592267	EPA 6010	593068
50272524003	P1 PZ-1S	EPA 3010	592267	EPA 6010	593068
50272524004	P2 A/B PZ-1D	EPA 3010	592267	EPA 6010	593068
50272524005	P2 A/B PZ-2D	EPA 3010	592267	EPA 6010	593068
50272524007	P2 PZ-1S	EPA 3010	592267	EPA 6010	593068
50272524008	P2 PZ-2S	EPA 3010	592267	EPA 6010	593068
50272524009	P2 PZ-2D	EPA 3010	592267	EPA 6010	593068
50272524001	Field Blank 3	EPA 3010	592557	EPA 6010	593416
50272524002	P1 PZ-1D	EPA 3010	592557	EPA 6010	593416
50272524003	P1 PZ-1S	EPA 3010	592557	EPA 6010	593416
50272524004	P2 A/B PZ-1D	EPA 3010	592557	EPA 6010	593416
50272524005	P2 A/B PZ-2D	EPA 3010	592557	EPA 6010	593416
50272524006	P2 A/B PZ-2S	EPA 3010	592557	EPA 6010	593416
50272524007	P2 PZ-1S	EPA 3010	592557	EPA 6010	593416
50272524008	P2 PZ-2S	EPA 3010	592557	EPA 6010	593416
50272524009	P2 PZ-2D	EPA 3010	592557	EPA 6010	593416
50272524001	Field Blank 3	EPA 200.2	592010	EPA 6020	592437
50272524002	P1 PZ-1D	EPA 200.2	592010	EPA 6020	592437
50272524003	P1 PZ-1S	EPA 200.2	592010	EPA 6020	592437
50272524004	P2 A/B PZ-1D	EPA 200.2	592010	EPA 6020	592437
50272524005	P2 A/B PZ-2D	EPA 200.2	592010	EPA 6020	592437
50272524007	P2 PZ-1S	EPA 200.2	592010	EPA 6020	592437
50272524008	P2 PZ-2S	EPA 200.2	592010	EPA 6020	592437
50272524009	P2 PZ-2D	EPA 200.2	592010	EPA 6020	592437
50272524001	Field Blank 3	SM 2540C	592567		
50272524002	P1 PZ-1D	SM 2540C	592567		
50272524003	P1 PZ-1S	SM 2540C	592592		
50272524004	P2 A/B PZ-1D	SM 2540C	592592		
50272524005	P2 A/B PZ-2D	SM 2540C	592592		
50272524007	P2 PZ-1S	SM 2540C	592592		
50272524008	P2 PZ-2S	SM 2540C	592592		
50272524009	P2 PZ-2D	SM 2540C	592592		
50272524001	Field Blank 3	SM 4500-H+B	592149		
50272524002	P1 PZ-1D	SM 4500-H+B	592149		
50272524003	P1 PZ-1S	SM 4500-H+B	592149		
50272524004	P2 A/B PZ-1D	SM 4500-H+B	592149		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 3

Pace Project No.: 50272524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272524005	P2 A/B PZ-2D	SM 4500-H+B	592149		
50272524006	P2 A/B PZ-2S	SM 4500-H+B	592149		
50272524007	P2 PZ-1S	SM 4500-H+B	592149		
50272524008	P2 PZ-2S	SM 4500-H+B	592149		
50272524009	P2 PZ-2D	SM 4500-H+B	592149		

REPORT OF LABORATORY ANALYSIS

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WO# : 50272524



50272524

CHAIN-OF-CUSTODY / Analytical Request Document

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

Company: ATC Group Services		Report To: Mark Breting		Attention:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:	
Indianapolis, IN 46256				Address:	
Email: mark.breting@atcassociates.com		Purchase Order #:		Pace Quote:	
Phone: NONE	Fax:	Project Name: Harding St Profile 1 Report 3		Pace Project Manager: donna.spyker@pacelabs.com,	
Requested Due Date:		Project #:		Pace Profile #: 6246/19	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	COLLECTED	PRESERVATIVES	ANALYSES TEST	REQUESTED ANALYSIS FILTERED (Y/N)										RESIDUAL CHLORINE (Y/N)					
							START DATE	END DATE	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		IN Metals, Total	IN Metals, Field Filtered	IN TDS/pH	IN Chloride, Fluoride, Sulfate	
1	DUP 4	WT																				
2	MS4	WT		11/6 12:25	4 X	X	X	X	X	X	X	X	X									009
3	MSD4	WT		11/6 12:25	4 X	X	X	X	X	X	X	X	X									+
4	Field Blank 3	WT		11/6 14:00	4 X	X	X	X	X	X	X	X	X									001
5	Extra	WT																				
6	P1 PZ-1D	WT		11/6 12:45	4 X	X	X	X	X	X	X	X	X									02
7	P1 PZ-1S	WT		11/6 14:00			X	X	X	X	X	X	X									03
8	P2 A/B PZ-1D	WT		11/6 12:40	4 X	X	X	X	X	X	X	X	X									04
9	P2 A/B PZ-1S	WT		---																		
10	P2 A/B PZ-2D	WT		11/6 11:24	4 X	X	X	X	X	X	X	X	X									05
11	P2 A/B PZ-2S	WT		11/6 9:23	4 X	X	X	X	X	X	X	X	X									06
12	P2 PZ-1S	WT		11/6 10:00	4 X	X	X	X	X	X	X	X	X									07

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				<i>[Signature]</i>	11/6/20	1550	S223SR

SAMPLER NAME AND SIGNATURE				TEMP in C
PRINT Name of SAMPLER: Andy Jaskowich				
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed: 11-6-20	

Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: ATC Group Services		Report To: Mark Breting	Attention:	
Address: 7988 Centerpoint Drive		Copy To:	Company Name:	
Indianapolis, IN 46256			Address:	
Email: mark.breting@atcassociates.com		Purchase Order #:	Pace Quote:	
Phone: NONE	Fax:	Project Name: Harding St Profile 1 Report 3	Pace Project Manager: donna.spyker@pacelabs.com,	
Requested Due Date:		Project #:	Pace Profile #: 6246/19	

Regulatory Agency:
State / Location:
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX	CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST Y/N	REQUESTED ANALYSIS FILTERED (Y/N)								RESIDUAL CHLORINE (Y/N)				
				Drinking Water	WT	START			END		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	IN Metals, Total	IN Metals, Field Filtered	IN TDS/pH	IN Chloride, Fluoride, Sulfate							
						DATE	TIME		DATE	TIME														# OF CONTAINERS						
13	P2 PZ-1D	WT															X	X	X	X										
14	P2 PZ-2S	WT		11/6	13:35				4	X		X					X	X	X	X										
15	P2 PZ-2D	WT		11/6	12:25				4	X		X					X	X	X	X										
16	P2 PZ-3S	WT															X	X	X	X										
17	P2 PZ-3D	WT															X	X	X	X										
18	P3 PZ-1S	WT															X	X	X	X										
19	P3 PZ-1D	WT															X	X	X	X										
20																														
21																														
22																														
23																														
24																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
					11/6/10	1550	S&S SCWA

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Andy Jasnowski					
SIGNATURE of SAMPLER:	DATE Signed: 11-6-20				



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MDZ 11/6/20 1615

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: 1.6/15 0.9/0.8 1.3/1.2 If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<u>/</u>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.		<u>/</u>	
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<u>/</u>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<u>/</u>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<u>/</u>
Rush TAT Requested (4 days or less):		<u>/</u>	Headspace Wisconsin Sulfide?			<u>/</u>
Custody Signatures Present?	<u>/</u>		Headspace in VOA Vials (>6mm):			<u>/</u>
Containers Intact?:	<u>/</u>		Trip Blank Present?		<u>/</u>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<u>/</u>		Trip Blank Custody Seals?:		<u>/</u>	
Extra labels on Terracore Vials? (soils only)		<u>/</u>				

COMMENTS: P2 A/B P2-2D BPRU FILLED w/ 150ML OF SAMPLE NO BP3N RCUV NO BP34 RCUV

Sample Container Count

Sample Line Item	WGUFU	R	SBS DI BK Kit	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Matrix	pH <2	pH >9	pH >10		
				1																										
2																														
3																														
4																		/	/	/	/					wt	✓			
5																														
6																		/	/	/	/					wt	✓			
7																		/	/	/	/									
8																		/	/	/	/									
9																		-----									wt	wt		
10																		/	/	/	/					wt	✓			
11																		/	+	/	+	dss 111020				wt	✓			
12																		/	/	/	/					wt	✓			

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	R	SBS DI BK Kit	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10			
																																1		
2																1	1	1	1										ht	✓				
3																3	3	3	3									ht	✓					
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50272526

Dear Mr. Breting:

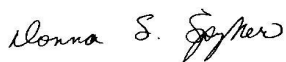
Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272526001	MW-1S	Water	11/06/20 10:15	11/06/20 15:50
50272526002	MW-1D	Water	11/06/20 09:30	11/06/20 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272526001	MW-1S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272526002	MW-1D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JPK	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272526001	MW-1S					
EPA 9056	Chloride	173	mg/L	25.0	11/17/20 20:42	
EPA 9056	Fluoride	0.35	mg/L	0.10	11/17/20 20:26	
EPA 9056	Sulfate	98.0	mg/L	25.0	11/17/20 20:42	
EPA 6010	Barium	112	ug/L	10.0	11/14/20 02:48	
EPA 6010	Boron	507	ug/L	100	11/14/20 02:48	
EPA 6010	Calcium	117000	ug/L	1000	11/14/20 02:48	
EPA 6010	Molybdenum	25.4	ug/L	10.0	11/14/20 02:48	
EPA 6020	Antimony	3.4	ug/L	1.0	11/12/20 01:04	
EPA 6020	Arsenic	21.2	ug/L	1.0	11/12/20 01:04	
EPA 903.1	Radium-226	0.593 ± 0.489 (0.707) C:NA T:78%	pCi/L		12/02/20 15:24	
EPA 904.0	Radium-228	2.49 ± 0.784 (1.01) C:62% T:75%	pCi/L		12/01/20 14:50	
Total Radium Calculation	Total Radium	3.08 ± 1.27 (1.72)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	686	mg/L	20.0	11/12/20 14:11	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/10/20 15:15	H3
50272526002	MW-1D					
EPA 9056	Chloride	119	mg/L	25.0	11/17/20 21:13	
EPA 9056	Fluoride	0.33	mg/L	0.10	11/17/20 20:58	
EPA 9056	Sulfate	75.8	mg/L	25.0	11/17/20 21:13	
EPA 6010	Barium	113	ug/L	10.0	11/14/20 02:50	
EPA 6010	Boron	606	ug/L	100	11/14/20 02:50	
EPA 6010	Calcium	106000	ug/L	1000	11/14/20 02:50	
EPA 6010	Molybdenum	34.6	ug/L	10.0	11/14/20 02:50	
EPA 6020	Antimony	3.1	ug/L	1.0	11/12/20 01:09	
EPA 6020	Arsenic	50.6	ug/L	1.0	11/12/20 01:09	
EPA 903.1	Radium-226	0.751 ± 0.403 (0.145) C:NA T:79%	pCi/L		12/02/20 15:24	
EPA 904.0	Radium-228	2.58 ± 0.773 (0.948) C:63% T:81%	pCi/L		12/01/20 14:50	
Total Radium Calculation	Total Radium	3.33 ± 1.18 (1.09)	pCi/L		12/03/20 10:26	
SM 2540C	Total Dissolved Solids	593	mg/L	10.0	11/12/20 14:11	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/10/20 15:16	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Sample: MW-1S	Lab ID: 50272526001	Collected: 11/06/20 10:15	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	173	mg/L	25.0	100		11/17/20 20:42	16887-00-6	
Fluoride	0.35	mg/L	0.10	1		11/17/20 20:26	16984-48-8	
Sulfate	98.0	mg/L	25.0	100		11/17/20 20:42	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	112	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:48	7440-39-3	
Boron	507	ug/L	100	1	11/13/20 10:48	11/14/20 02:48	7440-42-8	
Calcium	117000	ug/L	1000	1	11/13/20 10:48	11/14/20 02:48	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:48	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:48	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:48	7439-93-2	
Molybdenum	25.4	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:48	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.4	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:04	7440-36-0	
Arsenic	21.2	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:04	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/12/20 01:04	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:04	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	686	mg/L	20.0	1		11/12/20 14:11		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/10/20 15:15		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Sample: MW-1D	Lab ID: 50272526002	Collected: 11/06/20 09:30	Received: 11/06/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	119	mg/L	25.0	100		11/17/20 21:13	16887-00-6	
Fluoride	0.33	mg/L	0.10	1		11/17/20 20:58	16984-48-8	
Sulfate	75.8	mg/L	25.0	100		11/17/20 21:13	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	113	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:50	7440-39-3	
Boron	606	ug/L	100	1	11/13/20 10:48	11/14/20 02:50	7440-42-8	
Calcium	106000	ug/L	1000	1	11/13/20 10:48	11/14/20 02:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:50	7440-47-3	
Lead	ND	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:50	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/13/20 10:48	11/14/20 02:50	7439-93-2	
Molybdenum	34.6	ug/L	10.0	1	11/13/20 10:48	11/14/20 02:50	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.1	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:09	7440-36-0	
Arsenic	50.6	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:09	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/09/20 11:29	11/12/20 01:09	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:09	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/09/20 11:29	11/12/20 01:09	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	593	mg/L	10.0	1		11/12/20 14:11		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/10/20 15:16		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 593501

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2738337

Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/17/20 12:38	
Fluoride	mg/L	ND	0.10	11/17/20 12:38	
Sulfate	mg/L	ND	0.25	11/17/20 12:38	

LABORATORY CONTROL SAMPLE: 2738338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738339 2738340

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272524009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	142	125	125	265	273	98	105	80-120	3	15		
Fluoride	mg/L	ND	0.5	0.5	0.51	0.50	95	93	80-120	2	15		
Sulfate	mg/L	1110	250	250	1380	1430	108	126	80-120	3	15	M6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 592267

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2732340

Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/14/20 01:38	
Boron	ug/L	ND	100	11/14/20 01:38	
Calcium	ug/L	ND	1000	11/14/20 01:38	
Chromium	ug/L	ND	10.0	11/14/20 01:38	
Lead	ug/L	ND	10.0	11/14/20 01:38	
Lithium	ug/L	ND	20.0	11/14/20 01:38	
Molybdenum	ug/L	ND	10.0	11/14/20 01:38	

LABORATORY CONTROL SAMPLE: 2732341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	945	95	80-120	
Boron	ug/L	1000	948	95	80-120	
Calcium	ug/L	10000	9720	97	80-120	
Chromium	ug/L	1000	962	96	80-120	
Lead	ug/L	1000	957	96	80-120	
Lithium	ug/L	1000	952	95	80-120	
Molybdenum	ug/L	1000	990	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2732342 2732343

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272524009 Result	Spike Conc.	Spike Conc.	Result						
Barium	ug/L	658	1000	1000	1630	1780	97	112	75-125	9	20
Boron	ug/L	20800	1000	1000	21800	24200	103	338	75-125	10	20 P6
Calcium	ug/L	452000	10000	10000	447000	414000	-50	-382	75-125	8	20 P6
Chromium	ug/L	152	1000	1000	1040	1120	89	97	75-125	7	20
Lead	ug/L	214	1000	1000	1110	1210	90	99	75-125	8	20
Lithium	ug/L	260	1000	1000	1240	1350	98	109	75-125	9	20
Molybdenum	ug/L	792	1000	1000	1750	1910	95	112	75-125	9	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 591671	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2730160 Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/11/20 16:45	
Arsenic	ug/L	ND	1.0	11/11/20 16:45	
Beryllium	ug/L	ND	0.20	11/11/20 16:45	
Cobalt	ug/L	ND	1.0	11/11/20 16:45	
Selenium	ug/L	ND	1.0	11/11/20 16:45	

LABORATORY CONTROL SAMPLE: 2730161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.8	102	80-120	
Arsenic	ug/L	40	39.2	98	80-120	
Beryllium	ug/L	40	39.8	99	80-120	
Cobalt	ug/L	40	41.2	103	80-120	
Selenium	ug/L	40	40.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2730162 2730163

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272412004	Spike Conc.	Spike Conc.	Result								
Antimony	ug/L	<1.0	40	40	41.2	41.2	103	103	75-125	0	20		
Arsenic	ug/L	<1.0	40	40	38.3	38.2	95	95	75-125	0	20		
Beryllium	ug/L	<0.20	40	40	39.8	40.1	99	100	75-125	1	20		
Cobalt	ug/L	<1.0	40	40	39.9	40.1	99	100	75-125	0	20		
Selenium	ug/L	<1.0	40	40	39.6	40.0	98	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 592592

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2734004

Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/20 14:07	

LABORATORY CONTROL SAMPLE: 2734005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 2734007

Parameter	Units	50272558002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	360	343	5	10	

SAMPLE DUPLICATE: 2734054

Parameter	Units	50272524009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1940	1970	2	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 592149

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272526001, 50272526002

SAMPLE DUPLICATE: 2731877

Parameter	Units	50272391002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

SAMPLE DUPLICATE: 2731878

Parameter	Units	50272524009 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Sample: MW-1S **Lab ID: 50272526001** Collected: 11/06/20 10:15 Received: 11/06/20 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.593 ± 0.489 (0.707) C:NA T:78%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.49 ± 0.784 (1.01) C:62% T:75%	pCi/L	12/01/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.08 ± 1.27 (1.72)	pCi/L	12/03/20 10:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Sample: MW-1D **Lab ID: 50272526002** Collected: 11/06/20 09:30 Received: 11/06/20 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.751 ± 0.403 (0.145) C:NA T:79%	pCi/L	12/02/20 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.58 ± 0.773 (0.948) C:63% T:81%	pCi/L	12/01/20 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.33 ± 1.18 (1.09)	pCi/L	12/03/20 10:26	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 422659

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2042840

Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0865 ± 0.208 (0.402) C:NA T:79%	pCi/L	12/02/20 15:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

QC Batch: 422661

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272526001, 50272526002

METHOD BLANK: 2042845

Matrix: Water

Associated Lab Samples: 50272526001, 50272526002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.443 ± 0.426 (0.870) C:64% T:81%	pCi/L	12/01/20 14:50	

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272526001	MW-1S	EPA 9056	593501		
50272526002	MW-1D	EPA 9056	593501		
50272526001	MW-1S	EPA 3010	592267	EPA 6010	593068
50272526002	MW-1D	EPA 3010	592267	EPA 6010	593068
50272526001	MW-1S	EPA 200.2	591671	EPA 6020	591952
50272526002	MW-1D	EPA 200.2	591671	EPA 6020	591952
50272526001	MW-1S	EPA 903.1	422659		
50272526002	MW-1D	EPA 903.1	422659		
50272526001	MW-1S	EPA 904.0	422661		
50272526002	MW-1D	EPA 904.0	422661		
50272526001	MW-1S	Total Radium Calculation	425618		
50272526002	MW-1D	Total Radium Calculation	425618		
50272526001	MW-1S	SM 2540C	592592		
50272526002	MW-1D	SM 2540C	592592		
50272526001	MW-1S	SM 4500-H+B	592149		
50272526002	MW-1D	SM 4500-H+B	592149		

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WO#: 50272526



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required

50272526

Section C

Invoice Information:

Page: 1 Of 1

Company: ATC Group Services	Report To: Mark Brelling	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.brelling@atcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding St Profile 1 Report 1	Pace Project Manager: donna.spyker@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6246/1

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)			
						START				END		Unpreserved	H2SO4	HNO3	HCl	NaOH		Na2SO3	Methanol	Other	IN Metals, Total	IN TDS/pH		IN Chloride, Fluoride, Sulfate	IN Rad-226	IN Rad-228
						DATE	TIME			DATE	TIME															
1	MW-1S	WT							5	X	X							X	X	X	X	X	X		001	
2	MW-1D	WT							5	X	X							X	X	X	X	X	X		002	
3	MW-2S	WT																X	X	X	X	X	X			
4	MW-2D	WT																X	X	X	X	X	X			
5	MW-3S	WT																X	X	X	X	X	X			
6	MW-3D	WT																X	X	X	X	X	X			
7	MW-4S	WT																X	X	X	X	X	X			
8	MW-5S	WT																X	X	X	X	X	X			
9	MW-6S	WT																X	X	X	X	X	X			
10	MW-7S	WT																X	X	X	X	X	X			
11	MW-7D	WT																X	X	X	X	X	X			
12	MW-8S	WT																X	X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				<i>[Signature]</i>	11/6/20	1550	SEE SCX

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples in Contact (Y/N)
PRINT Name of SAMPLER:	<i>Andy Taskawick</i>				
SIGNATURE of SAMPLER:	<i>Andy Taskawick</i>	DATE Signed:	11-6-20		



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: Mar 16/20 16:15

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: 1.6/15 0.9/08 1.3/1.2 If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<u>/</u>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<u>/</u>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<u>/</u>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<u>/</u>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<u>/</u>
Rush TAT Requested (4 days or less):		<u>/</u>	Headspace Wisconsin Sulfide?			<u>/</u>
Custody Signatures Present?	<u>/</u>		Headspace in VOA Vials (>6mm):			<u>/</u>
Containers Intact?:	<u>/</u>		Trip Blank Present?		<u>/</u>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<u>/</u>		Trip Blank Custody Seals?:		<u>/</u>	
Extra labels on Terracore Vials? (soils only)		<u>/</u>				

COMMENTS:

Sample Container Count

Sample Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10					
																															SBS	DI	BK	Kit	
1															2	1	1	1													W	✓			
2															2	1	1	1														W	✓		
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL. HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50272758

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272758

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272758001	MW-6S	Water	11/09/20 14:13	11/10/20 14:25
50272758002	MW-8S	Water	11/09/20 12:20	11/10/20 14:25
50272758003	MW-9S	Water	11/09/20 15:40	11/10/20 14:25
50272758004	Equipment Blank	Water	11/09/20 16:45	11/10/20 14:25

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272758001	MW-6S	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272758002	MW-8S	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272758003	MW-9S	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50272758004	Equipment Blank	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	7	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50272758001	MW-6S					
EPA 9056	Chloride	208	mg/L	25.0	11/20/20 05:46	
EPA 9056	Fluoride	1.4	mg/L	0.10	11/20/20 05:29	
EPA 9056	Sulfate	539	mg/L	25.0	11/20/20 05:46	
EPA 6010	Barium	121	ug/L	10.0	11/19/20 12:50	
EPA 6010	Boron	9000	ug/L	100	11/19/20 12:50	
EPA 6010	Calcium	216000	ug/L	2000	11/19/20 13:18	
EPA 6010	Lithium	61.9	ug/L	20.0	11/19/20 12:50	
EPA 6010	Molybdenum	211	ug/L	10.0	11/19/20 12:50	
EPA 6020	Arsenic	39.2	ug/L	1.0	11/13/20 14:29	
EPA 6020	Cobalt	1.6	ug/L	1.0	11/13/20 14:29	
EPA 903.1	Radium-226	0.318 ± 0.391 (0.637) C:NA T:84%	pCi/L		12/03/20 16:55	
EPA 904.0	Radium-228	0.458 ± 0.433 (0.888) C:71% T:84%	pCi/L		12/02/20 13:49	
Total Radium Calculation	Total Radium	0.776 ± 0.824 (1.53)	pCi/L		12/04/20 08:21	
SM 2540C	Total Dissolved Solids	1500	mg/L	20.0	11/13/20 12:47	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	11/11/20 14:22	H3
50272758002	MW-8S					
EPA 9056	Chloride	122	mg/L	25.0	11/20/20 06:19	
EPA 9056	Fluoride	0.15	mg/L	0.10	11/20/20 06:02	
EPA 9056	Sulfate	968	mg/L	25.0	11/20/20 06:19	
EPA 6010	Barium	39.0	ug/L	10.0	11/19/20 12:53	
EPA 6010	Boron	15600	ug/L	100	11/19/20 12:53	
EPA 6010	Calcium	228000	ug/L	2000	11/19/20 13:20	
EPA 6010	Lithium	188	ug/L	20.0	11/19/20 12:53	
EPA 6010	Molybdenum	532	ug/L	10.0	11/19/20 12:53	
EPA 903.1	Radium-226	-0.0523 ± 0.340 (0.737) C:NA T:90%	pCi/L		12/03/20 16:55	
EPA 904.0	Radium-228	0.658 ± 0.531 (1.07) C:71% T:79%	pCi/L		12/02/20 13:49	
Total Radium Calculation	Total Radium	0.658 ± 0.871 (1.81)	pCi/L		12/04/20 08:21	
SM 2540C	Total Dissolved Solids	1820	mg/L	20.0	11/13/20 12:47	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/11/20 14:23	H3
50272758003	MW-9S					
EPA 9056	Chloride	72.2	mg/L	25.0	11/20/20 06:53	
EPA 9056	Fluoride	0.21	mg/L	0.10	11/20/20 06:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50272758003	MW-9S					
EPA 9056	Sulfate	272	mg/L	25.0	11/20/20 06:53	
EPA 6010	Barium	52.0	ug/L	10.0	11/19/20 12:55	
EPA 6010	Boron	5890	ug/L	100	11/19/20 12:55	
EPA 6010	Calcium	162000	ug/L	1000	11/19/20 12:55	
EPA 6010	Lithium	72.7	ug/L	20.0	11/19/20 12:55	
EPA 6010	Molybdenum	201	ug/L	10.0	11/19/20 12:55	
EPA 6020	Antimony	7.3	ug/L	1.0	11/13/20 14:42	
EPA 6020	Selenium	15.9	ug/L	1.0	11/13/20 14:42	
EPA 903.1	Radium-226	0.258 ± 0.393 (0.676) C:NA T:93%	pCi/L		12/03/20 16:55	
EPA 904.0	Radium-228	0.0457 ± 0.512 (1.18) C:63% T:75%	pCi/L		12/02/20 13:49	
Total Radium Calculation	Total Radium	0.304 ± 0.905 (1.86)	pCi/L		12/04/20 08:21	
SM 2540C	Total Dissolved Solids	852	mg/L	20.0	11/13/20 12:47	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/11/20 14:25	H3
50272758004	Equipment Blank					
EPA 903.1	Radium-226	-0.0629 ± 0.370 (0.825) C:NA T:90%	pCi/L		12/03/20 16:55	
EPA 904.0	Radium-228	-0.00329 ± 0.399 (0.928) C:70% T:85%	pCi/L		12/02/20 14:15	
Total Radium Calculation	Total Radium	0.000 ± 0.769 (1.75)	pCi/L		12/04/20 08:21	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/11/20 14:29	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-6S	Lab ID: 50272758001	Collected: 11/09/20 14:13	Received: 11/10/20 14:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	208	mg/L	25.0	100		11/20/20 05:46	16887-00-6	
Fluoride	1.4	mg/L	0.10	1		11/20/20 05:29	16984-48-8	
Sulfate	539	mg/L	25.0	100		11/20/20 05:46	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	121	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:50	7440-39-3	
Boron	9000	ug/L	100	1	11/16/20 13:56	11/19/20 12:50	7440-42-8	
Calcium	216000	ug/L	2000	2	11/16/20 13:56	11/19/20 13:18	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:50	7440-47-3	
Lead	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:50	7439-92-1	
Lithium	61.9	ug/L	20.0	1	11/16/20 13:56	11/19/20 12:50	7439-93-2	
Molybdenum	211	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:50	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:29	7440-36-0	
Arsenic	39.2	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:29	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/12/20 08:52	11/13/20 14:29	7440-41-7	
Cobalt	1.6	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:29	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:29	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1500	mg/L	20.0	1		11/13/20 12:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		11/11/20 14:22		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-8S	Lab ID: 50272758002	Collected: 11/09/20 12:20	Received: 11/10/20 14:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	122	mg/L	25.0	100		11/20/20 06:19	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		11/20/20 06:02	16984-48-8	
Sulfate	968	mg/L	25.0	100		11/20/20 06:19	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	39.0	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:53	7440-39-3	
Boron	15600	ug/L	100	1	11/16/20 13:56	11/19/20 12:53	7440-42-8	
Calcium	228000	ug/L	2000	2	11/16/20 13:56	11/19/20 13:20	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:53	7440-47-3	
Lead	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:53	7439-92-1	
Lithium	188	ug/L	20.0	1	11/16/20 13:56	11/19/20 12:53	7439-93-2	
Molybdenum	532	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:53	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:33	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:33	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/12/20 08:52	11/13/20 14:33	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:33	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:33	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1820	mg/L	20.0	1		11/13/20 12:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		11/11/20 14:23		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-9S	Lab ID: 50272758003	Collected: 11/09/20 15:40	Received: 11/10/20 14:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	72.2	mg/L	25.0	100		11/20/20 06:53	16887-00-6	
Fluoride	0.21	mg/L	0.10	1		11/20/20 06:36	16984-48-8	
Sulfate	272	mg/L	25.0	100		11/20/20 06:53	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	52.0	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:55	7440-39-3	
Boron	5890	ug/L	100	1	11/16/20 13:56	11/19/20 12:55	7440-42-8	
Calcium	162000	ug/L	1000	1	11/16/20 13:56	11/19/20 12:55	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:55	7440-47-3	
Lead	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:55	7439-92-1	
Lithium	72.7	ug/L	20.0	1	11/16/20 13:56	11/19/20 12:55	7439-93-2	
Molybdenum	201	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:55	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	7.3	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:42	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:42	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/12/20 08:52	11/13/20 14:42	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:42	7440-48-4	
Selenium	15.9	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:42	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	852	mg/L	20.0	1		11/13/20 12:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/11/20 14:25		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: Equipment Blank		Lab ID: 50272758004	Collected: 11/09/20 16:45	Received: 11/10/20 14:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	ND	mg/L	0.25	1		11/20/20 07:10	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/20/20 07:10	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/20/20 07:10	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:57	7440-39-3	
Boron	ND	ug/L	100	1	11/16/20 13:56	11/19/20 12:57	7440-42-8	
Calcium	ND	ug/L	1000	1	11/16/20 13:56	11/19/20 12:57	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:57	7440-47-3	
Lead	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:57	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/16/20 13:56	11/19/20 12:57	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/16/20 13:56	11/19/20 12:57	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:46	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:46	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/12/20 08:52	11/13/20 14:46	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/12/20 08:52	11/13/20 14:46	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	ND	mg/L	10.0	1		11/13/20 12:48		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/11/20 14:29		H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch:	594173	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2741273 Matrix: Water
Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/19/20 16:19	
Fluoride	mg/L	ND	0.10	11/19/20 16:19	
Sulfate	mg/L	ND	0.25	11/19/20 16:19	

LABORATORY CONTROL SAMPLE: 2741274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	0.5	0.48	95	80-120	
Sulfate	mg/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741275 2741276

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273672001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	16.9	12.5	12.5	29.7	29.8	102	103	80-120	0	15		
Fluoride	mg/L	0.15	0.5	0.5	0.64	0.64	97	98	80-120	0	15		
Sulfate	mg/L	216	25	25	245	245	119	119	80-120	0	15		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch: 592510	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2733691 Matrix: Water

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/19/20 12:21	
Boron	ug/L	ND	100	11/19/20 12:21	
Calcium	ug/L	ND	1000	11/19/20 12:21	
Chromium	ug/L	ND	10.0	11/19/20 12:21	
Lead	ug/L	ND	10.0	11/19/20 12:21	
Lithium	ug/L	ND	20.0	11/19/20 12:21	
Molybdenum	ug/L	ND	10.0	11/19/20 12:21	

LABORATORY CONTROL SAMPLE: 2733692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	926	93	80-120	
Boron	ug/L	1000	990	99	80-120	
Calcium	ug/L	10000	9960	100	80-120	
Chromium	ug/L	1000	984	98	80-120	
Lead	ug/L	1000	985	99	80-120	
Lithium	ug/L	1000	988	99	80-120	
Molybdenum	ug/L	1000	997	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733693 2733694

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272697003 Result	Spike Conc.	Spike Conc.	Result						
Barium	ug/L	23.4	1000	1000	984	980	96	96	75-125	0	20
Boron	ug/L	19600	1000	1000	20800	20500	115	90	75-125	1	20
Calcium	ug/L	536000	10000	10000	536000	602000	5	655	75-125	11	20 P6
Chromium	ug/L	ND	1000	1000	960	967	96	97	75-125	1	20
Lead	ug/L	ND	1000	1000	953	965	95	96	75-125	1	20
Lithium	ug/L	ND	1000	1000	1130	1120	112	111	75-125	1	20
Molybdenum	ug/L	235	1000	1000	1260	1260	102	102	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733695 2733696

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272781002 Result	Spike Conc.	Spike Conc.	Result						
Barium	ug/L	752	5000	5000	5300	5280	91	90	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733695		2733696		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272781002 Result	MS Spike Conc.	MSD Spike Conc.									
Boron	ug/L	ND	5000	5000	5200	5160	98	97	75-125	1	20		
Calcium	ug/L	514000	50000	50000	510000	524000	-9	20	75-125	3	20	CH,P6	
Chromium	ug/L	133	5000	5000	4860	4900	95	95	75-125	1	20		
Lead	ug/L	92.4	5000	5000	4780	4760	94	93	75-125	0	20		
Lithium	ug/L	121	5000	5000	5220	5180	102	101	75-125	1	20		
Molybdenum	ug/L	60.6	5000	5000	4920	4940	97	98	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50272758

QC Batch:	592474	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2733520 Matrix: Water
Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/13/20 13:49	
Arsenic	ug/L	ND	1.0	11/13/20 13:49	
Beryllium	ug/L	ND	0.20	11/13/20 13:49	
Cobalt	ug/L	ND	1.0	11/13/20 13:49	
Selenium	ug/L	ND	1.0	11/13/20 13:49	

LABORATORY CONTROL SAMPLE: 2733521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	104	80-120	
Arsenic	ug/L	40	39.2	98	80-120	
Beryllium	ug/L	40	39.8	100	80-120	
Cobalt	ug/L	40	41.0	102	80-120	
Selenium	ug/L	40	37.3	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2733522 2733523

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272510001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	52.4	46.7	131	116	75-125	12	20 M0
Arsenic	ug/L	ND	40	40	56.0	48.6	136	118	75-125	14	20 M0
Beryllium	ug/L	ND	40	40	59.3	52.6	148	131	75-125	12	20 M3
Cobalt	ug/L	ND	40	40	50.9	45.2	120	106	75-125	12	20
Selenium	ug/L	ND	40	40	61.1	53.2	153	133	75-125	14	20 M3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch: 592848

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2735412

Matrix: Water

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/13/20 12:43	

LABORATORY CONTROL SAMPLE: 2735413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 2735414

Parameter	Units	50272697003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2400	2370	1	10	

SAMPLE DUPLICATE: 2735415

Parameter	Units	50272805006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1440	1450	1	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch:	592406	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

SAMPLE DUPLICATE: 2733047

Parameter	Units	50272697004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.9	0	2	H3

SAMPLE DUPLICATE: 2733048

Parameter	Units	50272697003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-6S **Lab ID: 50272758001** Collected: 11/09/20 14:13 Received: 11/10/20 14:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.318 ± 0.391 (0.637) C:NA T:84%	pCi/L	12/03/20 16:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.458 ± 0.433 (0.888) C:71% T:84%	pCi/L	12/02/20 13:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.776 ± 0.824 (1.53)	pCi/L	12/04/20 08:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-8S **Lab ID: 50272758002** Collected: 11/09/20 12:20 Received: 11/10/20 14:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0523 ± 0.340 (0.737) C:NA T:90%	pCi/L	12/03/20 16:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.658 ± 0.531 (1.07) C:71% T:79%	pCi/L	12/02/20 13:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.658 ± 0.871 (1.81)	pCi/L	12/04/20 08:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Sample: MW-9S **Lab ID: 50272758003** Collected: 11/09/20 15:40 Received: 11/10/20 14:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.258 ± 0.393 (0.676) C:NA T:93%	pCi/L	12/03/20 16:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0457 ± 0.512 (1.18) C:63% T:75%	pCi/L	12/02/20 13:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.304 ± 0.905 (1.86)	pCi/L	12/04/20 08:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Equipment Blank						
Lab ID: 50272758004						
Collected: 11/09/20 16:45						
Received: 11/10/20 14:25						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0629 ± 0.370 (0.825) C:NA T:90%	pCi/L	12/03/20 16:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	-0.00329 ± 0.399 (0.928) C:70% T:85%	pCi/L	12/02/20 14:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.000 ± 0.769 (1.75)	pCi/L	12/04/20 08:21	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch: 423057

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2044906

Matrix: Water

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.100 ± 0.371 (0.841) C:73% T:78%	pCi/L	12/02/20 13:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

QC Batch: 423055

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

METHOD BLANK: 2044901

Matrix: Water

Associated Lab Samples: 50272758001, 50272758002, 50272758003, 50272758004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.148 ± 0.226 (0.594) C:NA T:85%	pCi/L	12/03/20 16:34	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50272758

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272758001	MW-6S	EPA 9056	594173		
50272758002	MW-8S	EPA 9056	594173		
50272758003	MW-9S	EPA 9056	594173		
50272758004	Equipment Blank	EPA 9056	594173		
50272758001	MW-6S	EPA 3010	592510	EPA 6010	594109
50272758002	MW-8S	EPA 3010	592510	EPA 6010	594109
50272758003	MW-9S	EPA 3010	592510	EPA 6010	594109
50272758004	Equipment Blank	EPA 3010	592510	EPA 6010	594109
50272758001	MW-6S	EPA 200.2	592474	EPA 6020	592689
50272758002	MW-8S	EPA 200.2	592474	EPA 6020	592689
50272758003	MW-9S	EPA 200.2	592474	EPA 6020	592689
50272758004	Equipment Blank	EPA 200.2	592474	EPA 6020	592689
50272758001	MW-6S	EPA 903.1	423055		
50272758002	MW-8S	EPA 903.1	423055		
50272758003	MW-9S	EPA 903.1	423055		
50272758004	Equipment Blank	EPA 903.1	423055		
50272758001	MW-6S	EPA 904.0	423057		
50272758002	MW-8S	EPA 904.0	423057		
50272758003	MW-9S	EPA 904.0	423057		
50272758004	Equipment Blank	EPA 904.0	423057		
50272758001	MW-6S	Total Radium Calculation	425760		
50272758002	MW-8S	Total Radium Calculation	425760		
50272758003	MW-9S	Total Radium Calculation	425760		
50272758004	Equipment Blank	Total Radium Calculation	425760		
50272758001	MW-6S	SM 2540C	592848		
50272758002	MW-8S	SM 2540C	592848		
50272758003	MW-9S	SM 2540C	592848		
50272758004	Equipment Blank	SM 2540C	592848		
50272758001	MW-6S	SM 4500-H+B	592406		
50272758002	MW-8S	SM 4500-H+B	592406		
50272758003	MW-9S	SM 4500-H+B	592406		
50272758004	Equipment Blank	SM 4500-H+B	592406		

REPORT OF LABORATORY ANALYSIS

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WO#: 50272758



50272758

CHAIN-OF-CUSTODY / Analytical Request Document

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

Company: ATC Group Services, Report to: Mark Breiting, Attention: Invoice Information: Section C, Regulatory Agency, State / Location: IN

Table with columns: ITEM #, SAMPLE ID, MATRIX CODE, SAMPLE TYPE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), RESIDUAL CHLORINE (Y/N)

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER: Mark Breiting, SIGNATURE of SAMPLER: Mark Breiting, DATE Signed: 11/10/20, TEMP in C, Received on Ice (Y/N), Custody Sealed (Y/N), Cooler (Y/N), Samples intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page : 2 Of 2
Company: ATC Group Services	Report To: Mark Breling	Attention:	
Address: 7988 Centerpoint Drive Indianapolis, IN 46256	Copy To:	Company Name:	
Email: mark.breling@atcassociates.com	Purchase Order #:	Address:	Regulatory Agency
Phone: NONE Fax:	Project Name: Harding St Profile 1 Report 1	Pace Quote:	State / Location
Requested Due Date:	Project #:	Pace Project Manager: donna.spyker@pacelabs.com, Pace Profile #: 6246/1	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N Analysis Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other																
				DATE	TIME	DATE	TIME												IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad-226	IN Rad-228											
13	MW-9S	WT			11/9/20	1540		5	2				3				X	X	X	X	X													003
14	MW-9I	WT															X	X	X	X	X													
15	MW-9D	WT															X	X	X	X	X													
16	MW-10S	WT															X	X	X	X	X													
17	MW-10D	WT															X	X	X	X	X													
18	MW-11D	WT															X	X	X	X	X													
19	MW-12S	WT															X	X	X	X	X													
20	MW-11S	WT															X	X	X	X	X													
21	MW-12D	WT															X	X	X	X	X													
22	MW-13S	WT															X	X	X	X	X													
23	MW-13D	WT															X	X	X	X	X													
24	MW-14D	WT															X	X	X	X	X													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	Mark Breling / ATC	11/10/20	1355	[Signature] / ATC	11/10/20	1355					
	[Signature] / ATC	11/10/20	1425	[Signature]	11-10-20	1425	0.8	Y	N	Y	
						1425	1.0				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Mark Breling	SIGNATURE of SAMPLER: [Signature] / ATC				
DATE Signed: 11/10/20					



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: ATC Group Services		Report To: Mark Breting		Attention:			
Address: 7988 Centerpoint Drive		Copy To:		Company Name:			
Indianapolis, IN 46256		Purchase Order #:		Address:		Regulatory Agency	
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Project Manager: donna.spyker@pacelabs.com,		State / Location	
Phone: NONE Fax:		Project #:		Pace Profile #: 6246/1		IN	
Requested Due Date:							

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)			
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses: Test	IN Metals, Total	IN TDS/pH	IN Chloride, Fluoride, Sulfate	IN Rad-226		IN Rad-228		
						DATE	TIME	DATE	TIME																				
25	MW-15S			WT														X	X	X	X	X							
26	MW-15I			WT														X	X	X	X	X							
27	MW-15D			WT														X	X	X	X	X							
28	DUP 1			WT														X	X	X	X	X							
29	DUP 2			WT														X	X	X	X	X							
30	Field Blank 1			WT														X	X	X	X	X							
31	MS1			WT														X	X	X	X	X							
32	MSD1			WT														X	X	X	X	X							
33	MS2			WT														X	X	X	X	X							
34	MSD2			WT														X	X	X	X	X							
35	Extra 1 Equipment Blank			WT			11/9/20	1645		4	1							X	X	X	X	X							Run out of DI water for 500ml bottle 004
36	Extra 2			WT														X	X	X	X	X							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	Mark Breting/ATC	11/10/20	1355	[Signature]	11/10/20	1355					
	[Signature]	11/10/20	1425	W. [Signature]	11-10-20	1425	08	Y	N	Y	
							WU				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Mark Breting						
SIGNATURE of SAMPLER: [Signature]						
DATE Signed: 11/10/20						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 11-10-20 ¹⁴³⁰

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer: 1 2 3 4 5 6 A B C D E F

Ice Type: Wet Blue None

Cooler Temperature: 0.20.8, 1.1.0
Temp should be above freezing to 6°C (Initial/Corrected)

If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>				

COMMENTS:

Sample Container Count

Sample Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10			
																															SBS	DI	BK
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9															2	1	1	1														WT	✓
10																																	
11																																	
12															2	1	1	1														WT	✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL. HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10					
1															2	1	1	1														WT	✓			
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	AF	Air Filter
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	R	Terra core kit
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	WT	Water
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	SL	Solid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			NAL	Non-aqueous liquid
						WP	Wipe

Sample Container Count

Sample Line Item	WGFU	SBS		DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
		DI	BK Kit																														
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																2		1	1														WT ✓
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 3
Pace Project No.: 50273619

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273619001	P2 A/B PZ-1S	Water	11/17/20 11:52	11/18/20 14:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273619001	P2 A/B PZ-1S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	7	PASI-I
		EPA 6010	RAM	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50273619001	P2 A/B PZ-1S					
EPA 9056	Chloride	669	mg/L	25.0	12/01/20 09:07	
EPA 9056	Fluoride	1.8	mg/L	0.10	12/01/20 08:52	
EPA 9056	Sulfate	1180	mg/L	25.0	12/01/20 09:07	
EPA 6010	Barium	49.7	ug/L	10.0	11/30/20 09:43	
EPA 6010	Boron	2060	ug/L	100	11/30/20 09:43	
EPA 6010	Calcium	410000	ug/L	5000	11/30/20 10:13	
EPA 6010	Lithium	56.4	ug/L	20.0	11/30/20 09:43	
EPA 6010	Molybdenum	42.2	ug/L	10.0	11/30/20 09:43	
EPA 6010	Iron, Dissolved	321	ug/L	100	11/26/20 13:27	
EPA 6010	Lithium, Dissolved	57.0	ug/L	20.0	11/26/20 13:27	
EPA 6010	Manganese, Dissolved	549	ug/L	10.0	11/26/20 13:27	
EPA 6010	Molybdenum, Dissolved	44.4	ug/L	10.0	11/26/20 13:27	
EPA 6020	Antimony	3.4	ug/L	1.0	11/23/20 00:00	
EPA 6020	Arsenic	208	ug/L	2.0	11/24/20 00:29	
EPA 6020	Beryllium	0.30	ug/L	0.20	11/23/20 00:00	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/23/20 00:00	
EPA 6020	Selenium	1.6	ug/L	1.0	11/24/20 01:03	
SM 2540C	Total Dissolved Solids	2700	mg/L	40.0	11/20/20 12:24	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/19/20 14:36	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Sample: P2 A/B PZ-1S	Lab ID: 50273619001	Collected: 11/17/20 11:52	Received: 11/18/20 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	669	mg/L	25.0	100		12/01/20 09:07	16887-00-6	
Fluoride	1.8	mg/L	0.10	1		12/01/20 08:52	16984-48-8	
Sulfate	1180	mg/L	25.0	100		12/01/20 09:07	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	49.7	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:43	7440-39-3	
Boron	2060	ug/L	100	1	11/28/20 07:00	11/30/20 09:43	7440-42-8	
Calcium	410000	ug/L	5000	5	11/28/20 07:00	11/30/20 10:13	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:43	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:43	7439-92-1	
Lithium	56.4	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:43	7439-93-2	
Molybdenum	42.2	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:43	7439-98-7	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Iron, Dissolved	321	ug/L	100	1	11/25/20 13:21	11/26/20 13:27	7439-89-6	
Lithium, Dissolved	57.0	ug/L	20.0	1	11/25/20 13:21	11/26/20 13:27	7439-93-2	
Manganese, Dissolved	549	ug/L	10.0	1	11/25/20 13:21	11/26/20 13:27	7439-96-5	
Molybdenum, Dissolved	44.4	ug/L	10.0	1	11/25/20 13:21	11/26/20 13:27	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.4	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:00	7440-36-0	
Arsenic	208	ug/L	2.0	2	11/19/20 17:42	11/24/20 00:29	7440-38-2	
Beryllium	0.30	ug/L	0.20	1	11/19/20 17:42	11/23/20 00:00	7440-41-7	
Cobalt	1.1	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:00	7440-48-4	
Selenium	1.6	ug/L	1.0	1	11/19/20 17:42	11/24/20 01:03	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2700	mg/L	40.0	1		11/20/20 12:24		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/19/20 14:36		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 595646

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

METHOD BLANK: 2747461

Matrix: Water

Associated Lab Samples: 50273619001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/01/20 07:20	
Fluoride	mg/L	ND	0.10	12/01/20 07:20	
Sulfate	mg/L	ND	0.25	12/01/20 07:20	

LABORATORY CONTROL SAMPLE: 2747462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747463 2747464

Parameter	Units	50273628003		2747463		2747464		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	27.5	27.5	12.5	12.5	41.9	41.8	115	115	80-120	0	15	
Fluoride	mg/L	0.47	0.47	0.5	0.5	1.0	1.0	107	107	80-120	0	15	
Sulfate	mg/L	270	270	250	250	528	529	103	104	80-120	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 594274

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

METHOD BLANK: 2741785

Matrix: Water

Associated Lab Samples: 50273619001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/30/20 08:55	
Boron	ug/L	ND	100	11/30/20 08:55	
Calcium	ug/L	ND	1000	11/30/20 08:55	
Chromium	ug/L	ND	10.0	11/30/20 08:55	
Lead	ug/L	ND	10.0	11/30/20 08:55	
Lithium	ug/L	ND	20.0	11/30/20 08:55	
Molybdenum	ug/L	ND	10.0	11/30/20 08:55	

LABORATORY CONTROL SAMPLE: 2741786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	908	91	80-120	
Boron	ug/L	1000	915	92	80-120	
Calcium	ug/L	10000	9520	95	80-120	
Chromium	ug/L	1000	926	93	80-120	
Lead	ug/L	1000	904	90	80-120	
Lithium	ug/L	1000	918	92	80-120	
Molybdenum	ug/L	1000	934	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741787 2741788

Parameter	Units	50273281002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Barium	ug/L	38.0	1000	1000	954	963	92	93	75-125	1	20		
Boron	ug/L	ND	1000	1000	1020	1030	95	96	75-125	1	20		
Calcium	ug/L	96300	10000	10000	112000	113000	161	170	75-125	1	20	P6	
Chromium	ug/L	ND	1000	1000	930	912	93	91	75-125	2	20		
Lead	ug/L	ND	1000	1000	918	918	92	92	75-125	0	20		
Lithium	ug/L	ND	1000	1000	948	955	94	95	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	952	954	95	95	75-125	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741789 2741790

Parameter	Units	50273628003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Barium	ug/L	284	1000	1000	1220	1170	94	89	75-125	4	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741789												2741790	
Parameter	Units	50273628003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Boron	ug/L	8550	1000	1000	9670	9190	112	64	75-125	5	20	P6	
Calcium	ug/L	187000	10000	10000	196000	186000	94	-4	75-125	5	20	P6	
Chromium	ug/L	ND	1000	1000	942	905	94	90	75-125	4	20		
Lead	ug/L	ND	1000	1000	922	907	92	91	75-125	2	20		
Lithium	ug/L	32.1	1000	1000	992	963	96	93	75-125	3	20		
Molybdenum	ug/L	124	1000	1000	1080	1050	96	93	75-125	3	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 595116	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

METHOD BLANK: 2745533 Matrix: Water

Associated Lab Samples: 50273619001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	100	11/26/20 13:25	
Lithium, Dissolved	ug/L	ND	20.0	11/26/20 13:25	
Manganese, Dissolved	ug/L	ND	10.0	11/26/20 13:25	
Molybdenum, Dissolved	ug/L	ND	10.0	11/26/20 13:25	

LABORATORY CONTROL SAMPLE: 2745534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9150	91	80-120	
Lithium, Dissolved	ug/L	1000	954	95	80-120	
Manganese, Dissolved	ug/L	1000	923	92	80-120	
Molybdenum, Dissolved	ug/L	1000	974	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745535 2745536

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273903003 Result	Spike Conc.	Spike Conc.	Result						
Iron, Dissolved	ug/L	ND	10000	10000	9230	9240	92	92	75-125	0	20
Lithium, Dissolved	ug/L	ND	1000	1000	1040	1040	103	104	75-125	1	20
Manganese, Dissolved	ug/L	40.0	1000	1000	979	981	94	94	75-125	0	20
Molybdenum, Dissolved	ug/L	ND	1000	1000	1020	1020	102	102	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 594053	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

METHOD BLANK: 2740551 Matrix: Water

Associated Lab Samples: 50273619001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/22/20 14:34	
Arsenic	ug/L	ND	1.0	11/22/20 14:34	
Beryllium	ug/L	ND	0.20	11/22/20 14:34	
Cobalt	ug/L	ND	1.0	11/22/20 14:34	
Selenium	ug/L	ND	1.0	11/22/20 14:34	

LABORATORY CONTROL SAMPLE: 2740552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	103	80-120	
Arsenic	ug/L	40	37.1	93	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	39.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2740553 2740554

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273628003 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	ND	40	40	41.1	41.2	103	103	75-125	0	20		
Arsenic	ug/L	2.3	40	40	37.8	38.1	89	89	75-125	1	20		
Beryllium	ug/L	ND	40	40	36.8	36.9	92	92	75-125	0	20		
Cobalt	ug/L	5.5	40	40	42.1	42.2	92	92	75-125	0	20		
Selenium	ug/L	ND	40	40	35.8	36.0	89	90	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 594373	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

METHOD BLANK: 2742063 Matrix: Water

Associated Lab Samples: 50273619001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/20/20 12:20	

LABORATORY CONTROL SAMPLE: 2742064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2742065

Parameter	Units	50273527002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2100	2150	2	10	

SAMPLE DUPLICATE: 2742066

Parameter	Units	50273777008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		2300			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

QC Batch: 594169

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273619001

SAMPLE DUPLICATE: 2741254

Parameter	Units	50273183002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	0	2	H3

SAMPLE DUPLICATE: 2741255

Parameter	Units	50273628003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

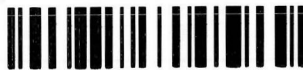
Project: Harding St Profile 1 Report 3

Pace Project No.: 50273619

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273619001	P2 A/B PZ-1S	EPA 9056	595646		
50273619001	P2 A/B PZ-1S	EPA 3010	594274	EPA 6010	595526
50273619001	P2 A/B PZ-1S	EPA 3010	595116	EPA 6010	595423
50273619001	P2 A/B PZ-1S	EPA 200.2	594053	EPA 6020	594322
50273619001	P2 A/B PZ-1S	SM 2540C	594373		
50273619001	P2 A/B PZ-1S	SM 4500-H+B	594169		

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50273619

IN-OF-CUSTODY / Analytical Request Document

in-of-custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1

Section A

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: ATC Group Services		Report To: Mark Breting		Attention:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:	
Indianapolis, IN 46256		Purchase Order #:		Address:	
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 3		Pace Quote:	
Phone: NONE	Fax:	Project #:		Pace Project Manager: donna.spyker@pacelabs.com,	
Requested Due Date:		Project #:		Pace Profile #: 6246/19	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test Y/N	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)											
						START DATE	START TIME	END DATE	END TIME		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	IN Metals, Total	IN Metals, Field Filtered	IN TDS/SpH	IN Chloride, Fluoride, Sulfate														
1	DUP 4		WT															X	X	X	X																	
2	MS4		WT															X	X	X	X																	
3	MSD4		WT															X	X	X	X																	
4	Field Blank 3		WT															X	X	X	X																	
5	Extra		WT															X	X	X	X																	
6	P1 PZ-1D		WT															X	X	X	X																	
7	P1 PZ-1S		WT															X	X	X	X																	
8	P2 A/B PZ-1D		WT															X	X	X	X																	
9	P2 A/B PZ-1S		WT			11/17/20	1152			4	2		2					X	X	X	X																001	
10	P2 A/B PZ-2D		WT															X	X	X	X																	
11	P2 A/B PZ-2S		WT															X	X	X	X																	
12	P2 PZ-1S		WT															X	X	X	X																	

ADDITIONAL COMMENTS	REQQUISISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Breting / ATC	11/18/20	1415	Robert POC	11/18/20	1415				
	Robert POC	11/18/20	1445	Wetlab	11-18-20	1445	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: MARK BRETING
 SIGNATURE of SAMPLER: *Mark Breting*
 DATE Signed: 11/17/20
 TEMP in C
 Received on ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 11-18-20 1450

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer: 1 2 3 4 5 6 A B C D E F

Ice Type: Wet Blue None

Cooler Temperature: 0.9/0.8
Temp should be above freezing to 6°C (Initial/Corrected)

If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>		<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

Sample Container Count

Sample Line Item	WGUFU	SBS		DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10				
		DI	BK Kit																																
1																																			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			WT ✓
10																																			
11																																			
12																																			

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

February 02, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50273620

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1
Pace Project No.: 50273620

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273620001	MW-7S	Water	11/17/20 09:05	11/18/20 14:45
50273620002	MW-7D	Water	11/17/20 09:58	11/18/20 14:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273620001	MW-7S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273620002	MW-7D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	7	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50273620001	MW-7S					
EPA 9056	Chloride	257	mg/L	25.0	12/01/20 09:38	
EPA 9056	Fluoride	0.54	mg/L	0.10	12/01/20 09:23	
EPA 9056	Sulfate	587	mg/L	25.0	12/01/20 09:38	
EPA 6010	Barium	36.0	ug/L	10.0	11/30/20 09:46	
EPA 6010	Boron	13000	ug/L	100	11/30/20 09:46	
EPA 6010	Calcium	213000	ug/L	5000	11/30/20 10:15	
EPA 6010	Lithium	86.8	ug/L	20.0	11/30/20 09:46	
EPA 6010	Molybdenum	681	ug/L	10.0	11/30/20 09:46	
EPA 6020	Arsenic	462	ug/L	5.0	11/24/20 00:33	
EPA 903.1	Radium-226	0.538 ± 0.488 (0.719) C:NA T:100%	pCi/L		12/14/20 14:20	
EPA 904.0	Radium-228	0.834 ± 0.433 (0.759) C:72% T:83%	pCi/L		12/14/20 11:22	
Total Radium Calculation	Total Radium	1.37 ± 0.921 (1.48)	pCi/L		12/14/20 15:51	
SM 2540C	Total Dissolved Solids	1440	mg/L	20.0	11/20/20 12:24	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/19/20 14:39	H3
50273620002	MW-7D					
EPA 9056	Chloride	236	mg/L	25.0	12/01/20 10:08	
EPA 9056	Fluoride	0.42	mg/L	0.10	12/01/20 09:53	
EPA 9056	Sulfate	594	mg/L	25.0	12/01/20 10:08	
EPA 6010	Barium	37.6	ug/L	10.0	11/30/20 09:48	
EPA 6010	Boron	14000	ug/L	100	11/30/20 09:48	
EPA 6010	Calcium	219000	ug/L	5000	11/30/20 10:17	
EPA 6010	Lithium	91.7	ug/L	20.0	11/30/20 09:48	
EPA 6010	Molybdenum	697	ug/L	10.0	11/30/20 09:48	
EPA 6020	Arsenic	402	ug/L	5.0	11/24/20 00:37	
EPA 903.1	Radium-226	0.143 ± 0.398 (0.772) C:NA T:82%	pCi/L		12/14/20 14:35	
EPA 904.0	Radium-228	0.515 ± 0.409 (0.811) C:67% T:89%	pCi/L		12/14/20 11:22	
Total Radium Calculation	Total Radium	0.658 ± 0.807 (1.58)	pCi/L		12/14/20 15:51	
SM 2540C	Total Dissolved Solids	1410	mg/L	20.0	11/20/20 12:24	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/19/20 14:40	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Sample: MW-7S	Lab ID: 50273620001	Collected: 11/17/20 09:05	Received: 11/18/20 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	257	mg/L	25.0	100		12/01/20 09:38	16887-00-6	
Fluoride	0.54	mg/L	0.10	1		12/01/20 09:23	16984-48-8	
Sulfate	587	mg/L	25.0	100		12/01/20 09:38	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	36.0	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:46	7440-39-3	
Boron	13000	ug/L	100	1	11/28/20 07:00	11/30/20 09:46	7440-42-8	
Calcium	213000	ug/L	5000	5	11/28/20 07:00	11/30/20 10:15	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:46	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:46	7439-92-1	
Lithium	86.8	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:46	7439-93-2	
Molybdenum	681	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:46	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:04	7440-36-0	
Arsenic	462	ug/L	5.0	5	11/19/20 17:42	11/24/20 00:33	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/19/20 17:42	11/23/20 00:04	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/19/20 17:42	11/24/20 01:07	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1440	mg/L	20.0	1		11/20/20 12:24		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/19/20 14:39		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Sample: MW-7D	Lab ID: 50273620002	Collected: 11/17/20 09:58	Received: 11/18/20 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	236	mg/L	25.0	100		12/01/20 10:08	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		12/01/20 09:53	16984-48-8	
Sulfate	594	mg/L	25.0	100		12/01/20 10:08	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	37.6	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:48	7440-39-3	
Boron	14000	ug/L	100	1	11/28/20 07:00	11/30/20 09:48	7440-42-8	
Calcium	219000	ug/L	5000	5	11/28/20 07:00	11/30/20 10:17	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:48	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:48	7439-92-1	
Lithium	91.7	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:48	7439-93-2	
Molybdenum	697	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:48	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:08	7440-36-0	
Arsenic	402	ug/L	5.0	5	11/19/20 17:42	11/24/20 00:37	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/19/20 17:42	11/23/20 00:08	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/19/20 17:42	11/23/20 00:08	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/19/20 17:42	11/24/20 01:11	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1410	mg/L	20.0	1		11/20/20 12:24		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/19/20 14:40		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

QC Batch: 595646

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2747461

Matrix: Water

Associated Lab Samples: 50273620001, 50273620002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/01/20 07:20	
Fluoride	mg/L	ND	0.10	12/01/20 07:20	
Sulfate	mg/L	ND	0.25	12/01/20 07:20	

LABORATORY CONTROL SAMPLE: 2747462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747463 2747464

Parameter	Units	50273628003		2747463		2747464		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	27.5	27.5	12.5	12.5	41.9	41.8	115	115	80-120	0	15	
Fluoride	mg/L	0.47	0.47	0.5	0.5	1.0	1.0	107	107	80-120	0	15	
Sulfate	mg/L	270	270	250	250	528	529	103	104	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50273620

QC Batch: 594274 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2741785 Matrix: Water

Associated Lab Samples: 50273620001, 50273620002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/30/20 08:55	
Boron	ug/L	ND	100	11/30/20 08:55	
Calcium	ug/L	ND	1000	11/30/20 08:55	
Chromium	ug/L	ND	10.0	11/30/20 08:55	
Lead	ug/L	ND	10.0	11/30/20 08:55	
Lithium	ug/L	ND	20.0	11/30/20 08:55	
Molybdenum	ug/L	ND	10.0	11/30/20 08:55	

LABORATORY CONTROL SAMPLE: 2741786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	908	91	80-120	
Boron	ug/L	1000	915	92	80-120	
Calcium	ug/L	10000	9520	95	80-120	
Chromium	ug/L	1000	926	93	80-120	
Lead	ug/L	1000	904	90	80-120	
Lithium	ug/L	1000	918	92	80-120	
Molybdenum	ug/L	1000	934	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741787 2741788

Parameter	Units	50273281002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Barium	ug/L	38.0	1000	1000	954	963	92	93	75-125	1	20		
Boron	ug/L	ND	1000	1000	1020	1030	95	96	75-125	1	20		
Calcium	ug/L	96300	10000	10000	112000	113000	161	170	75-125	1	20	P6	
Chromium	ug/L	ND	1000	1000	930	912	93	91	75-125	2	20		
Lead	ug/L	ND	1000	1000	918	918	92	92	75-125	0	20		
Lithium	ug/L	ND	1000	1000	948	955	94	95	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	952	954	95	95	75-125	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741789 2741790

Parameter	Units	50273628003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Barium	ug/L	284	1000	1000	1220	1170	94	89	75-125	4	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2741789		2741790		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50273628003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Boron	ug/L	8550	1000	1000	9670	9190	112	64	75-125	5	20	P6	
Calcium	ug/L	187000	10000	10000	196000	186000	94	-4	75-125	5	20	P6	
Chromium	ug/L	ND	1000	1000	942	905	94	90	75-125	4	20		
Lead	ug/L	ND	1000	1000	922	907	92	91	75-125	2	20		
Lithium	ug/L	32.1	1000	1000	992	963	96	93	75-125	3	20		
Molybdenum	ug/L	124	1000	1000	1080	1050	96	93	75-125	3	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

QC Batch:	594053	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2740551 Matrix: Water

Associated Lab Samples: 50273620001, 50273620002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/22/20 14:34	
Arsenic	ug/L	ND	1.0	11/22/20 14:34	
Beryllium	ug/L	ND	0.20	11/22/20 14:34	
Cobalt	ug/L	ND	1.0	11/22/20 14:34	
Selenium	ug/L	ND	1.0	11/22/20 14:34	

LABORATORY CONTROL SAMPLE: 2740552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	103	80-120	
Arsenic	ug/L	40	37.1	93	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	39.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2740553 2740554

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273628003 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.1	41.2	103	103	75-125	0	20
Arsenic	ug/L	2.3	40	40	37.8	38.1	89	89	75-125	1	20
Beryllium	ug/L	ND	40	40	36.8	36.9	92	92	75-125	0	20
Cobalt	ug/L	5.5	40	40	42.1	42.2	92	92	75-125	0	20
Selenium	ug/L	ND	40	40	35.8	36.0	89	90	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50273620

QC Batch: 594373 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2742063 Matrix: Water
Associated Lab Samples: 50273620001, 50273620002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/20/20 12:20	

LABORATORY CONTROL SAMPLE: 2742064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2742065

Parameter	Units	50273527002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2100	2150	2	10	

SAMPLE DUPLICATE: 2742066

Parameter	Units	50273777008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		2300			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

QC Batch: 594169	Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B	Analysis Description: 4500H+B pH
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273620001, 50273620002

SAMPLE DUPLICATE: 2741254

Parameter	Units	50273183002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	0	2	H3

SAMPLE DUPLICATE: 2741255

Parameter	Units	50273628003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Sample: MW-7S **Lab ID: 50273620001** Collected: 11/17/20 09:05 Received: 11/18/20 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.538 ± 0.488 (0.719) C:NA T:100%	pCi/L	12/14/20 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.834 ± 0.433 (0.759) C:72% T:83%	pCi/L	12/14/20 11:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.37 ± 0.921 (1.48)	pCi/L	12/14/20 15:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Sample: MW-7D **Lab ID: 50273620002** Collected: 11/17/20 09:58 Received: 11/18/20 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.143 ± 0.398 (0.772) C:NA T:82%	pCi/L	12/14/20 14:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.515 ± 0.409 (0.811) C:67% T:89%	pCi/L	12/14/20 11:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.658 ± 0.807 (1.58)	pCi/L	12/14/20 15:51	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

QC Batch: 424228

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2050484

Matrix: Water

Associated Lab Samples: 50273620001, 50273620002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0364 ± 0.353 (0.832) C:74% T:80%	pCi/L	12/14/20 11:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

QC Batch: 424227

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50273620001, 50273620002

METHOD BLANK: 2050480

Matrix: Water

Associated Lab Samples: 50273620001, 50273620002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.102 ± 0.375 (0.720) C:NA T:88%	pCi/L	12/14/20 14:05	

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50273620

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273620001	MW-7S	EPA 9056	595646		
50273620002	MW-7D	EPA 9056	595646		
50273620001	MW-7S	EPA 3010	594274	EPA 6010	595526
50273620002	MW-7D	EPA 3010	594274	EPA 6010	595526
50273620001	MW-7S	EPA 200.2	594053	EPA 6020	594322
50273620002	MW-7D	EPA 200.2	594053	EPA 6020	594322
50273620001	MW-7S	EPA 903.1	424227		
50273620002	MW-7D	EPA 903.1	424227		
50273620001	MW-7S	EPA 904.0	424228		
50273620002	MW-7D	EPA 904.0	424228		
50273620001	MW-7S	Total Radium Calculation	427133		
50273620002	MW-7D	Total Radium Calculation	427133		
50273620001	MW-7S	SM 2540C	594373		
50273620002	MW-7D	SM 2540C	594373		
50273620001	MW-7S	SM 4500-H+B	594169		
50273620002	MW-7D	SM 4500-H+B	594169		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 11-18-20 1450

Courier: Fed Ex UPS Client Face USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (If yes) Seals Intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: Wet Blue None

Cooler Temperature: 0.9/0.8 If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested (4 days or less):		✓	Headspace Wisconsin Sulfide?			✓
Custody Signatures Present?	✓		Headspace in VOA Vials (>6mm):			✓
Containers Intact?:	✓		Trip Blank Present?		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	
Extra labels on Terracore Vials? (soils only)		✓				

COMMENTS:

Sample Container Count

Sample Line Item	WGFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Matrix	pH <2	pH >9	pH >10		
				1																										
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

2 ↓
1 ↓
1 ↓
1 ↓

WT ✓
↓ ✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	WT	Water
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	SL	Solid
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac	NAL	Non-aqueous liquid
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WP	Wipe
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

May 2021

July 27, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50286423

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286423

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50286423001	MW-2S	Water	05/03/21 12:28	05/04/21 12:50
50286423002	MW-2D	Water	05/03/21 13:53	05/04/21 12:50
50286423003	MW-3S	Water	05/03/21 12:35	05/04/21 12:50
50286423004	MW-3D	Water	05/03/21 13:45	05/04/21 12:50
50286423005	MW-9I	Water	05/03/21 12:25	05/04/21 12:50
50286423006	MW-9D	Water	05/03/21 11:40	05/04/21 12:50
50286423007	MW-12D	Water	05/03/21 13:52	05/04/21 12:50
50286423008	DUP 1	Water	05/03/21 11:40	05/04/21 12:50

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50286423001	MW-2S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JDG	2	PASI-I		
		EPA 6020	CAW	6	PASI-I		
		EPA 7470	LBT	1	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	WZE	1	PASI-I		
		SM 4500-H+B	WDB	1	PASI-I		
		SM 4500-S2-D	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50286423002	MW-2D	EPA 9056	HBS	3	PASI-I
				EPA 6010	JDG	15	PASI-I
EPA 6010	JDG			2	PASI-I		
EPA 6020	CAW			6	PASI-I		
EPA 7470	LBT			1	PASI-I		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	VAL			1	PASI-PA		
Total Radium Calculation	RMK			1	PASI-PA		
SM 2320B	HCF			3	PASI-I		
SM 2540C	WZE			1	PASI-I		
SM 4500-H+B	WDB			1	PASI-I		
SM 4500-S2-D	WDB			1	PASI-I		
HACH 8146	SWJ			1	PASI-I		
EPA 353.2	SWJ			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50286423003	MW-3S			EPA 9056	HBS	3	PASI-I
				EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286423004	MW-3D	EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286423005	MW-9I	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286423006	MW-9D	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
SM 2540C	WZE	1	PASI-I		
SM 4500-H+B	WDB	1	PASI-I		
SM 4500-S2-D	WDB	1	PASI-I		
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286423007	MW-12D	EPA 9056	LWG	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50286423008	DUP 1	EPA 9056	LWG	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286423001	MW-2S					
EPA 9056	Chloride	289	mg/L	25.0	05/14/21 04:04	
EPA 9056	Fluoride	0.46	mg/L	0.10	05/14/21 03:48	
EPA 9056	Sulfate	95.3	mg/L	25.0	05/14/21 04:04	
EPA 6010	Barium	92.4	ug/L	10.0	05/12/21 11:48	
EPA 6010	Boron	142	ug/L	100	05/12/21 11:48	
EPA 6010	Calcium	58800	ug/L	1000	05/12/21 11:48	
EPA 6010	Iron	690	ug/L	100	05/12/21 11:48	
EPA 6010	Magnesium	22400	ug/L	1000	05/12/21 11:48	
EPA 6010	Manganese	262	ug/L	10.0	05/12/21 11:48	
EPA 6010	Molybdenum	35.0	ug/L	10.0	05/12/21 11:48	
EPA 6010	Potassium	6190	ug/L	1000	05/12/21 11:48	
EPA 6010	Silica	6790	ug/L	450	05/12/21 11:48	N2
EPA 6010	Sodium	122000	ug/L	1000	05/12/21 11:48	
EPA 6010	Manganese, Dissolved	277	ug/L	10.0	05/12/21 07:43	
EPA 6010	Molybdenum, Dissolved	36.9	ug/L	10.0	05/12/21 07:43	
EPA 6020	Arsenic	6.9	ug/L	1.0	05/06/21 13:35	
EPA 903.1	Radium-226	0.824 ± 0.595 (0.766)	pCi/L		05/28/21 13:35	
EPA 904.0	Radium-228	C:NA T:97% 0.00333 ± 0.446 (1.05)	pCi/L		05/27/21 19:42	
		C:75% T:84%				
Total Radium Calculation	Total Radium	0.827 ± 1.04 (1.82)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	231	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	231	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	579	mg/L	10.0	05/05/21 10:21	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/05/21 13:31	H3
EPA 365.1	Phosphate as P04	0.63	mg/L	0.15	05/07/21 16:34	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	05/11/21 11:59	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	05/14/21 19:11	
50286423002	MW-2D					
EPA 9056	Chloride	338	mg/L	25.0	05/14/21 04:37	
EPA 9056	Fluoride	0.87	mg/L	0.10	05/14/21 04:21	
EPA 9056	Sulfate	360	mg/L	25.0	05/14/21 04:37	
EPA 6010	Barium	37.8	ug/L	10.0	05/12/21 11:50	
EPA 6010	Boron	1750	ug/L	100	05/12/21 11:50	
EPA 6010	Calcium	162000	ug/L	1000	05/12/21 11:50	
EPA 6010	Iron	1710	ug/L	100	05/12/21 11:50	
EPA 6010	Lithium	40.3	ug/L	20.0	05/12/21 11:50	
EPA 6010	Magnesium	47800	ug/L	1000	05/12/21 11:50	
EPA 6010	Manganese	328	ug/L	10.0	05/12/21 11:50	
EPA 6010	Molybdenum	56.3	ug/L	10.0	05/12/21 11:50	
EPA 6010	Potassium	8750	ug/L	1000	05/12/21 11:50	
EPA 6010	Silica	13400	ug/L	450	05/12/21 11:50	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286423002	MW-2D					
EPA 6010	Sodium	167000	ug/L	1000	05/12/21 11:50	
EPA 6010	Manganese, Dissolved	338	ug/L	10.0	05/12/21 07:45	
EPA 6010	Molybdenum, Dissolved	57.4	ug/L	10.0	05/12/21 07:45	
EPA 6020	Arsenic	2.5	ug/L	1.0	05/06/21 13:57	
EPA 903.1	Radium-226	0.404 ± 0.537 (0.862)	pCi/L		05/28/21 13:56	
EPA 904.0	Radium-228	C:NA T:87% 1.44 ± 0.726 (1.29)	pCi/L		05/27/21 19:37	
		C:76% T:85%				
Total Radium Calculation	Total Radium	1.84 ± 1.26 (2.15)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	347	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	347	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	1100	mg/L	20.0	05/05/21 10:21	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/05/21 13:40	H3
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	05/11/21 12:10	
50286423003	MW-3S					
EPA 9056	Chloride	116	mg/L	25.0	05/14/21 09:32	
EPA 9056	Fluoride	0.17	mg/L	0.10	05/14/21 04:53	
EPA 9056	Sulfate	51.5	mg/L	2.5	05/14/21 05:10	
EPA 6010	Barium	40.9	ug/L	10.0	05/12/21 11:52	
EPA 6010	Boron	161	ug/L	100	05/12/21 11:52	
EPA 6010	Calcium	99100	ug/L	1000	05/12/21 11:52	
EPA 6010	Magnesium	21600	ug/L	1000	05/12/21 11:52	
EPA 6010	Manganese	28.6	ug/L	10.0	05/12/21 11:52	
EPA 6010	Molybdenum	36.1	ug/L	10.0	05/12/21 11:52	
EPA 6010	Potassium	1700	ug/L	1000	05/12/21 11:52	
EPA 6010	Silica	8130	ug/L	450	05/12/21 11:52	N2
EPA 6010	Sodium	57800	ug/L	1000	05/12/21 11:52	
EPA 6010	Molybdenum, Dissolved	38.2	ug/L	10.0	05/12/21 07:47	
EPA 6020	Antimony	5.5	ug/L	1.0	05/06/21 14:05	
EPA 6020	Selenium	9.5	ug/L	1.0	05/06/21 14:05	
EPA 903.1	Radium-226	0.0611 ± 0.451 (0.861)	pCi/L		05/28/21 13:35	
EPA 904.0	Radium-228	C:NA T:102% 0.433 ± 0.411 (0.829)	pCi/L		05/27/21 19:42	
		C:77% T:93%				
Total Radium Calculation	Total Radium	0.494 ± 0.862 (1.69)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	2.0	05/07/21 16:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286423003	MW-3S					
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	521	mg/L	10.0	05/05/21 10:22	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/05/21 13:33	H3
EPA 353.2	Nitrogen, Nitrate	0.18	mg/L	0.10	05/05/21 10:11	
50286423004	MW-3D					
EPA 9056	Chloride	164	mg/L	25.0	05/14/21 05:43	
EPA 9056	Fluoride	0.18	mg/L	0.10	05/14/21 05:26	
EPA 9056	Sulfate	175	mg/L	25.0	05/14/21 05:43	
EPA 6010	Barium	39.3	ug/L	10.0	05/12/21 11:54	
EPA 6010	Boron	579	ug/L	100	05/12/21 11:54	
EPA 6010	Calcium	92200	ug/L	1000	05/12/21 11:54	
EPA 6010	Iron	1780	ug/L	100	05/12/21 11:54	
EPA 6010	Magnesium	23700	ug/L	1000	05/12/21 11:54	
EPA 6010	Manganese	202	ug/L	10.0	05/12/21 11:54	
EPA 6010	Potassium	3360	ug/L	1000	05/12/21 11:54	
EPA 6010	Silica	11300	ug/L	450	05/12/21 11:54	N2
EPA 6010	Sodium	67500	ug/L	1000	05/12/21 11:54	
EPA 6010	Manganese, Dissolved	204	ug/L	10.0	05/12/21 07:49	
EPA 6020	Arsenic	3.8	ug/L	1.0	05/06/21 14:10	
EPA 903.1	Radium-226	0.194 ± 0.332 (0.541)	pCi/L		05/28/21 13:56	
EPA 904.0	Radium-228	C:NA T:94% 0.375 ± 0.513 (1.10)	pCi/L		05/27/21 19:43	
		C:74% T:85%				
Total Radium Calculation	Total Radium	0.569 ± 0.845 (1.64)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	250	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	250	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	590	mg/L	10.0	05/05/21 10:22	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/05/21 13:37	H3
50286423005	MW-9I					
EPA 9056	Chloride	177	mg/L	25.0	05/14/21 06:48	
EPA 9056	Fluoride	0.97	mg/L	0.10	05/14/21 06:32	
EPA 9056	Sulfate	112	mg/L	25.0	05/14/21 06:48	
EPA 6010	Barium	69.5	ug/L	10.0	05/12/21 11:56	
EPA 6010	Boron	1050	ug/L	100	05/12/21 11:56	
EPA 6010	Calcium	97100	ug/L	1000	05/12/21 11:56	
EPA 6010	Iron	1020	ug/L	100	05/12/21 11:56	
EPA 6010	Lithium	30.5	ug/L	20.0	05/12/21 11:56	
EPA 6010	Magnesium	24200	ug/L	1000	05/12/21 11:56	
EPA 6010	Manganese	224	ug/L	10.0	05/12/21 11:56	
EPA 6010	Molybdenum	134	ug/L	10.0	05/12/21 11:56	
EPA 6010	Potassium	5420	ug/L	1000	05/12/21 11:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286423005	MW-9I					
EPA 6010	Silica	11200	ug/L	450	05/12/21 11:56	N2
EPA 6010	Sodium	70900	ug/L	1000	05/12/21 11:56	
EPA 6010	Manganese, Dissolved	234	ug/L	10.0	05/12/21 07:52	
EPA 6010	Molybdenum, Dissolved	135	ug/L	10.0	05/12/21 07:52	
EPA 6020	Arsenic	4.8	ug/L	1.0	05/06/21 14:23	
EPA 903.1	Radium-226	0.0277 ± 0.636 (1.10) C:NA T:94%	pCi/L		05/28/21 13:35	
EPA 904.0	Radium-228	0.488 ± 0.529 (1.10) C:73% T:87%	pCi/L		05/27/21 19:42	
Total Radium Calculation	Total Radium	0.516 ± 1.17 (2.20)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	274	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	274	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	560	mg/L	10.0	05/05/21 10:53	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/05/21 13:29	H3
HACH 8146	Iron, Ferrous	0.82	mg/L	0.20	05/06/21 16:04	H3,N2
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	05/14/21 20:31	
50286423006	MW-9D					
EPA 9056	Chloride	114	mg/L	2.5	05/14/21 07:21	
EPA 9056	Fluoride	0.40	mg/L	0.10	05/14/21 07:04	
EPA 9056	Sulfate	208	mg/L	2.5	05/14/21 07:21	
EPA 6010	Barium	55.2	ug/L	10.0	05/12/21 11:58	
EPA 6010	Boron	1080	ug/L	100	05/12/21 11:58	
EPA 6010	Calcium	119000	ug/L	1000	05/12/21 11:58	
EPA 6010	Iron	1870	ug/L	100	05/12/21 11:58	
EPA 6010	Lithium	25.0	ug/L	20.0	05/12/21 11:58	
EPA 6010	Magnesium	37500	ug/L	1000	05/12/21 11:58	
EPA 6010	Manganese	236	ug/L	10.0	05/12/21 11:58	
EPA 6010	Molybdenum	49.6	ug/L	10.0	05/12/21 11:58	
EPA 6010	Potassium	6390	ug/L	1000	05/12/21 11:58	
EPA 6010	Silica	11700	ug/L	450	05/12/21 11:58	N2
EPA 6010	Sodium	81400	ug/L	1000	05/12/21 11:58	
EPA 6010	Manganese, Dissolved	245	ug/L	10.0	05/12/21 07:54	
EPA 6010	Molybdenum, Dissolved	50.3	ug/L	10.0	05/12/21 07:54	
EPA 6020	Arsenic	8.7	ug/L	1.0	05/06/21 14:27	
EPA 903.1	Radium-226	1.10 ± 0.673 (0.749) C:NA T:90%	pCi/L		05/28/21 13:35	
EPA 904.0	Radium-228	0.545 ± 0.399 (0.770) C:75% T:81%	pCi/L		05/27/21 16:20	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286423006	MW-9D					
Total Radium Calculation	Total Radium	1.65 ± 1.07 (1.52)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	284	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	284	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	725	mg/L	10.0	05/05/21 10:53	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/05/21 13:22	H3
HACH 8146	Iron, Ferrous	1.4	mg/L	0.20	05/06/21 16:04	H3,N2
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	05/14/21 20:50	
50286423007	MW-12D					
EPA 9056	Chloride	200	mg/L	25.0	05/15/21 23:16	
EPA 9056	Fluoride	1.3	mg/L	0.10	05/15/21 23:00	
EPA 9056	Sulfate	505	mg/L	25.0	05/15/21 23:16	
EPA 6010	Barium	28.4	ug/L	10.0	05/12/21 12:00	
EPA 6010	Boron	5990	ug/L	100	05/12/21 12:00	
EPA 6010	Calcium	193000	ug/L	2000	05/12/21 12:46	
EPA 6010	Iron	1790	ug/L	100	05/12/21 12:00	
EPA 6010	Lithium	69.6	ug/L	20.0	05/12/21 12:00	
EPA 6010	Magnesium	48800	ug/L	1000	05/12/21 12:00	
EPA 6010	Manganese	367	ug/L	10.0	05/12/21 12:00	
EPA 6010	Molybdenum	173	ug/L	10.0	05/12/21 12:00	
EPA 6010	Potassium	12900	ug/L	1000	05/12/21 12:00	
EPA 6010	Silica	14300	ug/L	450	05/12/21 12:00	N2
EPA 6010	Sodium	157000	ug/L	1000	05/12/21 12:00	
EPA 6010	Manganese, Dissolved	376	ug/L	10.0	05/12/21 07:56	
EPA 6010	Molybdenum, Dissolved	176	ug/L	10.0	05/12/21 07:56	
EPA 6020	Arsenic	463	ug/L	5.0	05/06/21 15:11	
EPA 903.1	Radium-226	-0.101 ± 0.310 (0.725)	pCi/L		05/28/21 13:56	
EPA 904.0	Radium-228	0.452 ± 0.624 (1.34) C:75% T:71%	pCi/L		05/27/21 19:43	
Total Radium Calculation	Total Radium	0.452 ± 0.934 (2.07)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	256	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	256	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	1300	mg/L	20.0	05/05/21 10:54	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/05/21 13:39	H3
HACH 8146	Iron, Ferrous	1.6	mg/L	0.20	05/06/21 16:04	H3,N2
EPA 365.1	Phosphate as P04	0.43	mg/L	0.15	05/07/21 16:40	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	05/11/21 13:27	
50286423008	DUP 1					
EPA 9056	Chloride	211	mg/L	25.0	05/16/21 00:17	
EPA 9056	Fluoride	1.3	mg/L	0.10	05/16/21 00:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286423008	DUP 1					
EPA 9056	Sulfate	539	mg/L	25.0	05/16/21 00:17	
EPA 6010	Barium	27.2	ug/L	10.0	05/12/21 12:06	
EPA 6010	Boron	6050	ug/L	100	05/12/21 12:06	
EPA 6010	Calcium	200000	ug/L	1000	05/12/21 12:06	
EPA 6010	Iron	1550	ug/L	100	05/12/21 12:06	
EPA 6010	Lithium	73.6	ug/L	20.0	05/12/21 12:06	
EPA 6010	Magnesium	47900	ug/L	1000	05/12/21 12:06	
EPA 6010	Manganese	349	ug/L	10.0	05/12/21 12:06	
EPA 6010	Molybdenum	174	ug/L	10.0	05/12/21 12:06	
EPA 6010	Potassium	12800	ug/L	1000	05/12/21 12:06	
EPA 6010	Silica	14200	ug/L	450	05/12/21 12:06	N2
EPA 6010	Sodium	156000	ug/L	1000	05/12/21 13:35	
EPA 6010	Manganese, Dissolved	382	ug/L	10.0	05/12/21 07:58	
EPA 6010	Molybdenum, Dissolved	173	ug/L	10.0	05/12/21 07:58	
EPA 6020	Arsenic	427	ug/L	5.0	05/06/21 15:15	
EPA 903.1	Radium-226	0.117 ± 0.377 (0.727)	pCi/L		05/28/21 13:35	
EPA 904.0	Radium-228	C:NA T:86% 0.591 ± 0.594 (1.23)	pCi/L		05/27/21 19:42	
		C:76% T:83%				
Total Radium Calculation	Total Radium	0.708 ± 0.971 (1.96)	pCi/L		06/02/21 13:24	
SM 2320B	Alkalinity, Total as CaCO3	251	mg/L	2.0	05/07/21 16:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	251	mg/L	2.0	05/07/21 16:07	
SM 2540C	Total Dissolved Solids	1330	mg/L	20.0	05/05/21 10:54	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/05/21 13:25	H3
HACH 8146	Iron, Ferrous	1.4	mg/L	0.20	05/06/21 16:04	H3,N2
EPA 365.1	Phosphate as P04	0.58	mg/L	0.15	05/07/21 16:40	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	05/11/21 13:39	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2S		Lab ID: 50286423001	Collected: 05/03/21 12:28	Received: 05/04/21 12:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	289	mg/L	25.0	100		05/14/21 04:04	16887-00-6	
Fluoride	0.46	mg/L	0.10	1		05/14/21 03:48	16984-48-8	
Sulfate	95.3	mg/L	25.0	100		05/14/21 04:04	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:48	7429-90-5	
Barium	92.4	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:48	7440-39-3	
Boron	142	ug/L	100	1	05/11/21 07:55	05/12/21 11:48	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:48	7440-43-9	
Calcium	58800	ug/L	1000	1	05/11/21 07:55	05/12/21 11:48	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:48	7440-47-3	
Iron	690	ug/L	100	1	05/11/21 07:55	05/12/21 11:48	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:48	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:48	7439-93-2	
Magnesium	22400	ug/L	1000	1	05/11/21 07:55	05/12/21 11:48	7439-95-4	
Manganese	262	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:48	7439-96-5	
Molybdenum	35.0	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:48	7439-98-7	
Potassium	6190	ug/L	1000	1	05/11/21 07:55	05/12/21 11:48	7440-09-7	
Silica	6790	ug/L	450	1	05/11/21 07:55	05/12/21 11:48	7631-86-9	N2
Sodium	122000	ug/L	1000	1	05/11/21 07:55	05/12/21 11:48	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Manganese, Dissolved	277	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:43	7439-96-5	
Molybdenum, Dissolved	36.9	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:43	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:35	7440-36-0	
Arsenic	6.9	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:35	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 13:35	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:35	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:35	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:35	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis						
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:07	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis						
Alkalinity, Total as CaCO3	231	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Bicarbonate (CaCO3)	231	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2S		Lab ID: 50286423001		Collected: 05/03/21 12:28	Received: 05/04/21 12:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	579	mg/L	10.0	1		05/05/21 10:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.9	Std. Units	0.10	1		05/05/21 13:31		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:03		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:09	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:09	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	0.63	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:34		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	1.7	mg/L	1.0	1		05/11/21 11:59	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	1.0	mg/L	1.0	1		05/14/21 19:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2D	Lab ID: 50286423002	Collected: 05/03/21 13:53	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	338	mg/L	25.0	100		05/14/21 04:37	16887-00-6	
Fluoride	0.87	mg/L	0.10	1		05/14/21 04:21	16984-48-8	
Sulfate	360	mg/L	25.0	100		05/14/21 04:37	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:50	7429-90-5	
Barium	37.8	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:50	7440-39-3	
Boron	1750	ug/L	100	1	05/11/21 07:55	05/12/21 11:50	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:50	7440-43-9	
Calcium	162000	ug/L	1000	1	05/11/21 07:55	05/12/21 11:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:50	7440-47-3	
Iron	1710	ug/L	100	1	05/11/21 07:55	05/12/21 11:50	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:50	7439-92-1	
Lithium	40.3	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:50	7439-93-2	
Magnesium	47800	ug/L	1000	1	05/11/21 07:55	05/12/21 11:50	7439-95-4	
Manganese	328	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:50	7439-96-5	
Molybdenum	56.3	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:50	7439-98-7	
Potassium	8750	ug/L	1000	1	05/11/21 07:55	05/12/21 11:50	7440-09-7	
Silica	13400	ug/L	450	1	05/11/21 07:55	05/12/21 11:50	7631-86-9	N2
Sodium	167000	ug/L	1000	1	05/11/21 07:55	05/12/21 11:50	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	338	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:45	7439-96-5	
Molybdenum, Dissolved	57.4	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:45	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:57	7440-36-0	
Arsenic	2.5	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:57	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 13:57	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:57	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:57	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 13:57	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:10	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	347	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Bicarbonate (CaCO3)	347	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2D	Lab ID: 50286423002	Collected: 05/03/21 13:53	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1100	mg/L	20.0	1		05/05/21 10:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/05/21 13:40		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:03		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:20	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:20	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:34		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.3	mg/L	1.0	1		05/11/21 12:10	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/14/21 19:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3S	Lab ID: 50286423003	Collected: 05/03/21 12:35	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	116	mg/L	25.0	100		05/14/21 09:32	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		05/14/21 04:53	16984-48-8	
Sulfate	51.5	mg/L	2.5	10		05/14/21 05:10	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:52	7429-90-5	
Barium	40.9	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:52	7440-39-3	
Boron	161	ug/L	100	1	05/11/21 07:55	05/12/21 11:52	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:52	7440-43-9	
Calcium	99100	ug/L	1000	1	05/11/21 07:55	05/12/21 11:52	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:52	7440-47-3	
Iron	ND	ug/L	100	1	05/11/21 07:55	05/12/21 11:52	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:52	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:52	7439-93-2	
Magnesium	21600	ug/L	1000	1	05/11/21 07:55	05/12/21 11:52	7439-95-4	
Manganese	28.6	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:52	7439-96-5	
Molybdenum	36.1	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:52	7439-98-7	
Potassium	1700	ug/L	1000	1	05/11/21 07:55	05/12/21 11:52	7440-09-7	
Silica	8130	ug/L	450	1	05/11/21 07:55	05/12/21 11:52	7631-86-9	N2
Sodium	57800	ug/L	1000	1	05/11/21 07:55	05/12/21 11:52	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:47	7439-96-5	
Molybdenum, Dissolved	38.2	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:47	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	5.5	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:05	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:05	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:05	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:05	7440-48-4	
Selenium	9.5	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:05	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:05	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:12	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	244	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Bicarbonate (CaCO3)	244	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3S	Lab ID: 50286423003	Collected: 05/03/21 12:35	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	521	mg/L	10.0	1		05/05/21 10:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/05/21 13:33		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:03		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.18	mg/L	0.10	1		05/05/21 10:11	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:11	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:37		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/11/21 12:21	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/14/21 19:51		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3D	Lab ID: 50286423004	Collected: 05/03/21 13:45	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	164	mg/L	25.0	100		05/14/21 05:43	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		05/14/21 05:26	16984-48-8	
Sulfate	175	mg/L	25.0	100		05/14/21 05:43	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:54	7429-90-5	
Barium	39.3	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:54	7440-39-3	
Boron	579	ug/L	100	1	05/11/21 07:55	05/12/21 11:54	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:54	7440-43-9	
Calcium	92200	ug/L	1000	1	05/11/21 07:55	05/12/21 11:54	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:54	7440-47-3	
Iron	1780	ug/L	100	1	05/11/21 07:55	05/12/21 11:54	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:54	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:54	7439-93-2	
Magnesium	23700	ug/L	1000	1	05/11/21 07:55	05/12/21 11:54	7439-95-4	
Manganese	202	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:54	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:54	7439-98-7	
Potassium	3360	ug/L	1000	1	05/11/21 07:55	05/12/21 11:54	7440-09-7	
Silica	11300	ug/L	450	1	05/11/21 07:55	05/12/21 11:54	7631-86-9	N2
Sodium	67500	ug/L	1000	1	05/11/21 07:55	05/12/21 11:54	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	204	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:49	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:49	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:10	7440-36-0	
Arsenic	3.8	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:10	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:10	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:10	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:10	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:10	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:18	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	250	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Bicarbonate (CaCO3)	250	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3D	Lab ID: 50286423004	Collected: 05/03/21 13:45	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	590	mg/L	10.0	1		05/05/21 10:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/05/21 13:37		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:03		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:13	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:13	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:38		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/11/21 12:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/14/21 20:11		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-9I	Lab ID: 50286423005	Collected: 05/03/21 12:25	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	177	mg/L	25.0	100		05/14/21 06:48	16887-00-6	
Fluoride	0.97	mg/L	0.10	1		05/14/21 06:32	16984-48-8	
Sulfate	112	mg/L	25.0	100		05/14/21 06:48	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:56	7429-90-5	
Barium	69.5	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:56	7440-39-3	
Boron	1050	ug/L	100	1	05/11/21 07:55	05/12/21 11:56	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:56	7440-43-9	
Calcium	97100	ug/L	1000	1	05/11/21 07:55	05/12/21 11:56	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:56	7440-47-3	
Iron	1020	ug/L	100	1	05/11/21 07:55	05/12/21 11:56	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:56	7439-92-1	
Lithium	30.5	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:56	7439-93-2	
Magnesium	24200	ug/L	1000	1	05/11/21 07:55	05/12/21 11:56	7439-95-4	
Manganese	224	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:56	7439-96-5	
Molybdenum	134	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:56	7439-98-7	
Potassium	5420	ug/L	1000	1	05/11/21 07:55	05/12/21 11:56	7440-09-7	
Silica	11200	ug/L	450	1	05/11/21 07:55	05/12/21 11:56	7631-86-9	N2
Sodium	70900	ug/L	1000	1	05/11/21 07:55	05/12/21 11:56	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	234	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:52	7439-96-5	
Molybdenum, Dissolved	135	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:52	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:23	7440-36-0	
Arsenic	4.8	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:23	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:23	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:23	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:23	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:23	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:20	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	274	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Bicarbonate (CaCO3)	274	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-9I Lab ID: 50286423005 Collected: 05/03/21 12:25 Received: 05/04/21 12:50 Matrix: Water								
2540C Total Dissolved Solids								
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	560	mg/L	10.0	1		05/05/21 10:53		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/05/21 13:29		H3
4500S2D Sulfide Water								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.82	mg/L	0.20	1		05/06/21 16:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:07	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:07	14797-65-0	
365.1 Total Phosphorus								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:39		
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/11/21 13:05	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.1	mg/L	1.0	1		05/14/21 20:31		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-9D	Lab ID: 50286423006	Collected: 05/03/21 11:40	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	114	mg/L	2.5	10		05/14/21 07:21	16887-00-6	
Fluoride	0.40	mg/L	0.10	1		05/14/21 07:04	16984-48-8	
Sulfate	208	mg/L	2.5	10		05/14/21 07:21	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 11:58	7429-90-5	
Barium	55.2	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:58	7440-39-3	
Boron	1080	ug/L	100	1	05/11/21 07:55	05/12/21 11:58	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 11:58	7440-43-9	
Calcium	119000	ug/L	1000	1	05/11/21 07:55	05/12/21 11:58	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:58	7440-47-3	
Iron	1870	ug/L	100	1	05/11/21 07:55	05/12/21 11:58	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:58	7439-92-1	
Lithium	25.0	ug/L	20.0	1	05/11/21 07:55	05/12/21 11:58	7439-93-2	
Magnesium	37500	ug/L	1000	1	05/11/21 07:55	05/12/21 11:58	7439-95-4	
Manganese	236	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:58	7439-96-5	
Molybdenum	49.6	ug/L	10.0	1	05/11/21 07:55	05/12/21 11:58	7439-98-7	
Potassium	6390	ug/L	1000	1	05/11/21 07:55	05/12/21 11:58	7440-09-7	
Silica	11700	ug/L	450	1	05/11/21 07:55	05/12/21 11:58	7631-86-9	N2
Sodium	81400	ug/L	1000	1	05/11/21 07:55	05/12/21 11:58	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	245	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:54	7439-96-5	
Molybdenum, Dissolved	50.3	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:54	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:27	7440-36-0	
Arsenic	8.7	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:27	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:27	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:27	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:27	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:27	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:22	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	284	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Bicarbonate (CaCO3)	284	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-9D	Lab ID: 50286423006	Collected: 05/03/21 11:40	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	725	mg/L	10.0	1		05/05/21 10:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/05/21 13:22		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	1.4	mg/L	0.20	1		05/06/21 16:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 09:59	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 09:59	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:39		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/11/21 13:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.0	mg/L	1.0	1		05/14/21 20:50		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-12D	Lab ID: 50286423007	Collected: 05/03/21 13:52	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	200	mg/L	25.0	100		05/15/21 23:16	16887-00-6	
Fluoride	1.3	mg/L	0.10	1		05/15/21 23:00	16984-48-8	
Sulfate	505	mg/L	25.0	100		05/15/21 23:16	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:00	7429-90-5	
Barium	28.4	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:00	7440-39-3	
Boron	5990	ug/L	100	1	05/11/21 07:55	05/12/21 12:00	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:00	7440-43-9	
Calcium	193000	ug/L	2000	2	05/11/21 07:55	05/12/21 12:46	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:00	7440-47-3	
Iron	1790	ug/L	100	1	05/11/21 07:55	05/12/21 12:00	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:00	7439-92-1	
Lithium	69.6	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:00	7439-93-2	
Magnesium	48800	ug/L	1000	1	05/11/21 07:55	05/12/21 12:00	7439-95-4	
Manganese	367	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:00	7439-96-5	
Molybdenum	173	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:00	7439-98-7	
Potassium	12900	ug/L	1000	1	05/11/21 07:55	05/12/21 12:00	7440-09-7	
Silica	14300	ug/L	450	1	05/11/21 07:55	05/12/21 12:00	7631-86-9	N2
Sodium	157000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:00	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	376	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:56	7439-96-5	
Molybdenum, Dissolved	176	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:56	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:31	7440-36-0	
Arsenic	463	ug/L	5.0	5	05/05/21 17:30	05/06/21 15:11	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:31	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:31	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:31	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:31	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:24	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	256	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Bicarbonate (CaCO3)	256	mg/L	2.0	1		05/07/21 16:07		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-12D	Lab ID: 50286423007	Collected: 05/03/21 13:52	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1300	mg/L	20.0	1		05/05/21 10:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/05/21 13:39		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	1.6	mg/L	0.20	1		05/06/21 16:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:18	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:18	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.43	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:40		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.1	mg/L	1.0	1		05/11/21 13:27	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/14/21 21:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: DUP 1	Lab ID: 50286423008	Collected: 05/03/21 11:40	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	211	mg/L	25.0	100		05/16/21 00:17	16887-00-6	
Fluoride	1.3	mg/L	0.10	1		05/16/21 00:02	16984-48-8	
Sulfate	539	mg/L	25.0	100		05/16/21 00:17	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:06	7429-90-5	
Barium	27.2	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:06	7440-39-3	
Boron	6050	ug/L	100	1	05/11/21 07:55	05/12/21 12:06	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:06	7440-43-9	
Calcium	200000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:06	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:06	7440-47-3	
Iron	1550	ug/L	100	1	05/11/21 07:55	05/12/21 12:06	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:06	7439-92-1	
Lithium	73.6	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:06	7439-93-2	
Magnesium	47900	ug/L	1000	1	05/11/21 07:55	05/12/21 12:06	7439-95-4	
Manganese	349	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:06	7439-96-5	
Molybdenum	174	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:06	7439-98-7	
Potassium	12800	ug/L	1000	1	05/11/21 07:55	05/12/21 12:06	7440-09-7	
Silica	14200	ug/L	450	1	05/11/21 07:55	05/12/21 12:06	7631-86-9	N2
Sodium	156000	ug/L	1000	1	05/11/21 07:55	05/12/21 13:35	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	382	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:58	7439-96-5	
Molybdenum, Dissolved	173	ug/L	10.0	1	05/11/21 07:55	05/12/21 07:58	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:36	7440-36-0	
Arsenic	427	ug/L	5.0	5	05/05/21 17:30	05/06/21 15:15	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/05/21 17:30	05/06/21 14:36	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:36	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:36	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/05/21 17:30	05/06/21 14:36	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 13:32	05/11/21 18:27	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	251	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Bicarbonate (CaCO3)	251	mg/L	2.0	1		05/07/21 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: DUP 1	Lab ID: 50286423008	Collected: 05/03/21 11:40	Received: 05/04/21 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1330	mg/L	20.0	1		05/05/21 10:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/05/21 13:25		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 12:25	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	1.4	mg/L	0.20	1		05/06/21 16:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/05/21 10:05	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/05/21 10:05	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.58	mg/L	0.15	1	05/07/21 12:15	05/07/21 16:40		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.9	mg/L	1.0	1		05/11/21 13:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/14/21 22:10		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 620578 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006

METHOD BLANK: 2859759 Matrix: Water
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/13/21 12:49	
Fluoride	mg/L	ND	0.10	05/13/21 12:49	
Sulfate	mg/L	ND	0.25	05/13/21 12:49	

LABORATORY CONTROL SAMPLE: 2859760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	99	80-120	
Fluoride	mg/L	0.5	0.47	95	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859761 2859762

Parameter	Units	50286245002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	244	125	125	368	368	99	99	80-120	0	15	
Fluoride	mg/L	0.50	0.5	0.5	0.98	0.98	96	96	80-120	0	15	
Sulfate	mg/L	10.3	2.5	2.5	12.6	12.6	95	95	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 620581

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423007, 50286423008

METHOD BLANK: 2859775

Matrix: Water

Associated Lab Samples: 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/15/21 22:29	
Fluoride	mg/L	ND	0.10	05/15/21 22:29	
Sulfate	mg/L	ND	0.25	05/15/21 22:29	

LABORATORY CONTROL SAMPLE: 2859776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	92	80-120	
Fluoride	mg/L	0.5	0.52	105	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859777 2859778

Parameter	Units	50286431001		2859777		2859778		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	82.7	12.5	12.5	113	108	241	201	80-120	4	15	M0	
Fluoride	mg/L	1.2	0.5	0.5	1.7	1.7	104	105	80-120	0	15		
Sulfate	mg/L	131	25	25	181	175	199	177	80-120	3	15	M0	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619797	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2856575 Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/11/21 17:53	

LABORATORY CONTROL SAMPLE: 2856576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856577 2856578

Parameter	Units	50286431001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	5.0	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619338	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2853635 Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/12/21 11:44	
Barium	ug/L	ND	10.0	05/12/21 11:44	
Boron	ug/L	ND	100	05/12/21 11:44	
Cadmium	ug/L	ND	2.0	05/12/21 11:44	
Calcium	ug/L	ND	1000	05/12/21 11:44	
Chromium	ug/L	ND	10.0	05/12/21 11:44	
Iron	ug/L	ND	100	05/12/21 11:44	
Lead	ug/L	ND	10.0	05/12/21 11:44	
Lithium	ug/L	ND	20.0	05/12/21 11:44	
Magnesium	ug/L	ND	1000	05/12/21 11:44	
Manganese	ug/L	ND	10.0	05/12/21 11:44	
Molybdenum	ug/L	ND	10.0	05/12/21 11:44	
Potassium	ug/L	ND	1000	05/12/21 11:44	
Silica	ug/L	ND	450	05/12/21 11:44	N2
Sodium	ug/L	ND	1000	05/12/21 11:44	

LABORATORY CONTROL SAMPLE: 2853636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9550	96	80-120	
Barium	ug/L	1000	975	98	80-120	
Boron	ug/L	1000	984	98	80-120	
Cadmium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	9830	98	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Iron	ug/L	10000	9970	100	80-120	
Lead	ug/L	1000	974	97	80-120	
Lithium	ug/L	1000	998	100	80-120	
Magnesium	ug/L	10000	9770	98	80-120	
Manganese	ug/L	1000	907	91	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	
Potassium	ug/L	10000	9540	95	80-120	
Silica	ug/L	10700	10300	96	80-120	N2
Sodium	ug/L	10000	9610	96	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853637												2853638	
Parameter	Units	50286597002		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	ND	10000	10000	10000	10100	10100	101	100	75-125	0	20	
Barium	ug/L	57.2	1000	1000	1000	1050	1050	99	99	75-125	0	20	
Boron	ug/L	8100	1000	1000	1000	9240	9360	113	125	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1000	1010	1010	101	101	75-125	1	20	
Calcium	ug/L	207000	10000	10000	10000	217000	221000	108	148	75-125	2	20	P6
Chromium	ug/L	ND	1000	1000	1000	1000	983	100	98	75-125	2	20	
Iron	ug/L	3150	10000	10000	10000	12900	12900	98	98	75-125	0	20	
Lead	ug/L	ND	1000	1000	1000	943	937	94	94	75-125	1	20	
Lithium	ug/L	65.8	1000	1000	1000	1100	1100	104	103	75-125	0	20	
Magnesium	ug/L	55300	10000	10000	10000	65400	66300	100	110	75-125	1	20	
Manganese	ug/L	224	1000	1000	1000	1140	1140	91	92	75-125	0	20	
Molybdenum	ug/L	169	1000	1000	1000	1200	1200	103	103	75-125	0	20	
Potassium	ug/L	10900	10000	10000	10000	21100	21300	102	104	75-125	1	20	
Silica	ug/L	11800	10700	10700	10700	22500	22600	100	101		1		N2
Sodium	ug/L	152000	10000	10000	10000	162000	163000	98	112	75-125	1	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619370	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2853818 Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/12/21 07:39	
Molybdenum, Dissolved	ug/L	ND	10.0	05/12/21 07:39	

LABORATORY CONTROL SAMPLE: 2853819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	947	95	80-120	
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853820 2853821

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result								
Manganese, Dissolved	ug/L	232	1000	1000	1120	1140	89	90	75-125	1	20		
Molybdenum, Dissolved	ug/L	171	1000	1000	1170	1200	100	103	75-125	2	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	618972	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK:	2851813	Matrix:	Water
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Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/06/21 13:26	
Arsenic	ug/L	ND	1.0	05/06/21 13:26	
Beryllium	ug/L	ND	0.20	05/06/21 13:26	
Cobalt	ug/L	ND	1.0	05/06/21 13:26	
Selenium	ug/L	ND	1.0	05/06/21 13:26	
Thallium	ug/L	ND	1.0	05/06/21 13:26	

LABORATORY CONTROL SAMPLE: 2851814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.5	101	80-120	
Arsenic	ug/L	40	38.8	97	80-120	
Beryllium	ug/L	40	38.9	97	80-120	
Cobalt	ug/L	40	41.0	102	80-120	
Selenium	ug/L	40	41.9	105	80-120	
Thallium	ug/L	40	41.9	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851815 2851816

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286279009 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	<2.0	40	40	40.6	40.4	101	101	75-125	1	20
Arsenic	ug/L	<5.0	40	40	37.8	37.9	94	94	75-125	0	20
Beryllium	ug/L	<1.0	40	40	36.8	36.8	92	92	75-125	0	20 CL
Cobalt	ug/L	<20.0	40	40	39.0	38.8	97	97	75-125	1	20
Selenium	ug/L	<5.0	40	40	38.6	38.2	96	95	75-125	1	20
Thallium	ug/L	<2.0	40	40	41.3	41.2	103	103	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619481	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK:	2854506	Matrix:	Water
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Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/07/21 16:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/07/21 16:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/07/21 16:07	

LABORATORY CONTROL SAMPLE: 2854507						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.1	96	90-110	

SAMPLE DUPLICATE: 2854508						
Parameter	Units	50286509009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	32.4	32.2	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	30.4	32.2	6	20	
Alkalinity,Carbonate (CaCO3)	mg/L	2.0	ND		20	

SAMPLE DUPLICATE: 2854509						
Parameter	Units	50286509010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	45.9	48.0	4	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	45.9	48.0	4	20	
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 618958 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2851757 Matrix: Water
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/05/21 10:15	

LABORATORY CONTROL SAMPLE: 2851758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	262	87	80-120	

SAMPLE DUPLICATE: 2851759

Parameter	Units	50286280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	780	798	2	10	

SAMPLE DUPLICATE: 2851760

Parameter	Units	50286431001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	573	570	1	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619006	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

SAMPLE DUPLICATE: 2851957

Parameter	Units	50286431001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

SAMPLE DUPLICATE: 2851958

Parameter	Units	50286423003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619217	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2852956 Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/06/21 12:25	

LABORATORY CONTROL SAMPLE: 2852957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852958 2852959

Parameter	Units	50286423001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	96	96	90-110	0	20	

MATRIX SPIKE SAMPLE: 2852960

Parameter	Units	50286423007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.52	104	90-110	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286423

QC Batch:	619291	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2853453 Matrix: Water
Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/06/21 16:03	H3,N2

LABORATORY CONTROL SAMPLE: 2853454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	105	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853455 2853456

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	105	104	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2853457

Parameter	Units	50286597008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L		2.8	5	8.0	104	90-110 H3,N2

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	618921	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008		

METHOD BLANK:	2851649	Matrix:	Water
Associated Lab Samples:	50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/05/21 09:56	
Nitrogen, Nitrite	mg/L	ND	0.10	05/05/21 09:56	

LABORATORY CONTROL SAMPLE: 2851650						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	
Nitrogen, Nitrite	mg/L	1	1.1	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851651												2851652		
Parameter	Units	50286423006 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.									
Nitrogen, Nitrate	mg/L	ND	1	1	1	1	1.1	1.1	103	105	90-110	2	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1	1	1.1	1.1	107	109	90-110	1	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch:	619443	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2854313 Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/07/21 16:32	

LABORATORY CONTROL SAMPLE: 2854314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854315 2854316

Parameter	Units	50286423003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.7				11		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 619451 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2854354 Matrix: Water
 Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/11/21 11:37	

LABORATORY CONTROL SAMPLE: 2854355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854356 2854357

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	10	10	11.7	11.6	103	102	80-120	1	20	

MATRIX SPIKE SAMPLE: 2854358

Parameter	Units	50286477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.0	10	14.6	107	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286423

QC Batch: 620839 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2861464 Matrix: Water
Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/14/21 18:06	

LABORATORY CONTROL SAMPLE: 2861465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861466 2861467

Parameter	Units	50286564008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	0.62J	10	10	10.1	10.1	95	95	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861468 2861469

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.8	94	94	80-120	1	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2S **Lab ID: 50286423001** Collected: 05/03/21 12:28 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.824 ± 0.595 (0.766) C:NA T:97%	pCi/L	05/28/21 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.00333 ± 0.446 (1.05) C:75% T:84%	pCi/L	05/27/21 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.827 ± 1.04 (1.82)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-2D **Lab ID: 50286423002** Collected: 05/03/21 13:53 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.404 ± 0.537 (0.862) C:NA T:87%	pCi/L	05/28/21 13:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.44 ± 0.726 (1.29) C:76% T:85%	pCi/L	05/27/21 19:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.84 ± 1.26 (2.15)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3S **Lab ID: 50286423003** Collected: 05/03/21 12:35 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0611 ± 0.451 (0.861) C:NA T:102%	pCi/L	05/28/21 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.433 ± 0.411 (0.829) C:77% T:93%	pCi/L	05/27/21 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.494 ± 0.862 (1.69)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-3D **Lab ID: 50286423004** Collected: 05/03/21 13:45 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.194 ± 0.332 (0.541) C:NA T:94%	pCi/L	05/28/21 13:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.375 ± 0.513 (1.10) C:74% T:85%	pCi/L	05/27/21 19:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.569 ± 0.845 (1.64)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-9I **Lab ID: 50286423005** Collected: 05/03/21 12:25 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0277 ± 0.636 (1.10) C:NA T:94%	pCi/L	05/28/21 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.488 ± 0.529 (1.10) C:73% T:87%	pCi/L	05/27/21 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.516 ± 1.17 (2.20)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-9D **Lab ID: 50286423006** Collected: 05/03/21 11:40 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.10 ± 0.673 (0.749) C:NA T:90%	pCi/L	05/28/21 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.545 ± 0.399 (0.770) C:75% T:81%	pCi/L	05/27/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.65 ± 1.07 (1.52)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: MW-12D **Lab ID: 50286423007** Collected: 05/03/21 13:52 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.101 ± 0.310 (0.725) C:NA T:98%	pCi/L	05/28/21 13:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.452 ± 0.624 (1.34) C:75% T:71%	pCi/L	05/27/21 19:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.452 ± 0.934 (2.07)	pCi/L	06/02/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Sample: DUP 1 **Lab ID: 50286423008** Collected: 05/03/21 11:40 Received: 05/04/21 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.117 ± 0.377 (0.727) C:NA T:86%	pCi/L	05/28/21 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.591 ± 0.594 (1.23) C:76% T:83%	pCi/L	05/27/21 19:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.708 ± 0.971 (1.96)	pCi/L	06/02/21 13:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 447305

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2158578

Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0765 ± 0.258 (0.589) C:79% T:83%	pCi/L	05/27/21 16:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

QC Batch: 447304

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

METHOD BLANK: 2158577

Matrix: Water

Associated Lab Samples: 50286423001, 50286423002, 50286423003, 50286423004, 50286423005, 50286423006, 50286423007, 50286423008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.160 ± 0.310 (0.541) C:NA T:98%	pCi/L	05/28/21 13:05	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286423001	MW-2S	EPA 9056	620578		
50286423002	MW-2D	EPA 9056	620578		
50286423003	MW-3S	EPA 9056	620578		
50286423004	MW-3D	EPA 9056	620578		
50286423005	MW-9I	EPA 9056	620578		
50286423006	MW-9D	EPA 9056	620578		
50286423007	MW-12D	EPA 9056	620581		
50286423008	DUP 1	EPA 9056	620581		
50286423001	MW-2S	EPA 3010	619338	EPA 6010	620272
50286423002	MW-2D	EPA 3010	619338	EPA 6010	620272
50286423003	MW-3S	EPA 3010	619338	EPA 6010	620272
50286423004	MW-3D	EPA 3010	619338	EPA 6010	620272
50286423005	MW-9I	EPA 3010	619338	EPA 6010	620272
50286423006	MW-9D	EPA 3010	619338	EPA 6010	620272
50286423007	MW-12D	EPA 3010	619338	EPA 6010	620272
50286423008	DUP 1	EPA 3010	619338	EPA 6010	620272
50286423001	MW-2S	EPA 3010	619370	EPA 6010	620196
50286423002	MW-2D	EPA 3010	619370	EPA 6010	620196
50286423003	MW-3S	EPA 3010	619370	EPA 6010	620196
50286423004	MW-3D	EPA 3010	619370	EPA 6010	620196
50286423005	MW-9I	EPA 3010	619370	EPA 6010	620196
50286423006	MW-9D	EPA 3010	619370	EPA 6010	620196
50286423007	MW-12D	EPA 3010	619370	EPA 6010	620196
50286423008	DUP 1	EPA 3010	619370	EPA 6010	620196
50286423001	MW-2S	EPA 200.2	618972	EPA 6020	619168
50286423002	MW-2D	EPA 200.2	618972	EPA 6020	619168
50286423003	MW-3S	EPA 200.2	618972	EPA 6020	619168
50286423004	MW-3D	EPA 200.2	618972	EPA 6020	619168
50286423005	MW-9I	EPA 200.2	618972	EPA 6020	619168
50286423006	MW-9D	EPA 200.2	618972	EPA 6020	619168
50286423007	MW-12D	EPA 200.2	618972	EPA 6020	619168
50286423008	DUP 1	EPA 200.2	618972	EPA 6020	619168
50286423001	MW-2S	EPA 7470	619797	EPA 7470	620170
50286423002	MW-2D	EPA 7470	619797	EPA 7470	620170
50286423003	MW-3S	EPA 7470	619797	EPA 7470	620170
50286423004	MW-3D	EPA 7470	619797	EPA 7470	620170
50286423005	MW-9I	EPA 7470	619797	EPA 7470	620170
50286423006	MW-9D	EPA 7470	619797	EPA 7470	620170
50286423007	MW-12D	EPA 7470	619797	EPA 7470	620170
50286423008	DUP 1	EPA 7470	619797	EPA 7470	620170
50286423001	MW-2S	EPA 903.1	447304		
50286423002	MW-2D	EPA 903.1	447304		
50286423003	MW-3S	EPA 903.1	447304		
50286423004	MW-3D	EPA 903.1	447304		
50286423005	MW-9I	EPA 903.1	447304		
50286423006	MW-9D	EPA 903.1	447304		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286423007	MW-12D	EPA 903.1	447304		
50286423008	DUP 1	EPA 903.1	447304		
50286423001	MW-2S	EPA 904.0	447305		
50286423002	MW-2D	EPA 904.0	447305		
50286423003	MW-3S	EPA 904.0	447305		
50286423004	MW-3D	EPA 904.0	447305		
50286423005	MW-9I	EPA 904.0	447305		
50286423006	MW-9D	EPA 904.0	447305		
50286423007	MW-12D	EPA 904.0	447305		
50286423008	DUP 1	EPA 904.0	447305		
50286423001	MW-2S	Total Radium Calculation	450615		
50286423002	MW-2D	Total Radium Calculation	450615		
50286423003	MW-3S	Total Radium Calculation	450615		
50286423004	MW-3D	Total Radium Calculation	450615		
50286423005	MW-9I	Total Radium Calculation	450615		
50286423006	MW-9D	Total Radium Calculation	450615		
50286423007	MW-12D	Total Radium Calculation	450615		
50286423008	DUP 1	Total Radium Calculation	450615		
50286423001	MW-2S	SM 2320B	619481		
50286423002	MW-2D	SM 2320B	619481		
50286423003	MW-3S	SM 2320B	619481		
50286423004	MW-3D	SM 2320B	619481		
50286423005	MW-9I	SM 2320B	619481		
50286423006	MW-9D	SM 2320B	619481		
50286423007	MW-12D	SM 2320B	619481		
50286423008	DUP 1	SM 2320B	619481		
50286423001	MW-2S	SM 2540C	618958		
50286423002	MW-2D	SM 2540C	618958		
50286423003	MW-3S	SM 2540C	618958		
50286423004	MW-3D	SM 2540C	618958		
50286423005	MW-9I	SM 2540C	618958		
50286423006	MW-9D	SM 2540C	618958		
50286423007	MW-12D	SM 2540C	618958		
50286423008	DUP 1	SM 2540C	618958		
50286423001	MW-2S	SM 4500-H+B	619006		
50286423002	MW-2D	SM 4500-H+B	619006		
50286423003	MW-3S	SM 4500-H+B	619006		
50286423004	MW-3D	SM 4500-H+B	619006		
50286423005	MW-9I	SM 4500-H+B	619006		
50286423006	MW-9D	SM 4500-H+B	619006		
50286423007	MW-12D	SM 4500-H+B	619006		
50286423008	DUP 1	SM 4500-H+B	619006		
50286423001	MW-2S	SM 4500-S2-D	619217		
50286423002	MW-2D	SM 4500-S2-D	619217		
50286423003	MW-3S	SM 4500-S2-D	619217		
50286423004	MW-3D	SM 4500-S2-D	619217		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286423005	MW-9I	SM 4500-S2-D	619217		
50286423006	MW-9D	SM 4500-S2-D	619217		
50286423007	MW-12D	SM 4500-S2-D	619217		
50286423008	DUP 1	SM 4500-S2-D	619217		
50286423001	MW-2S	HACH 8146	619291		
50286423002	MW-2D	HACH 8146	619291		
50286423003	MW-3S	HACH 8146	619291		
50286423004	MW-3D	HACH 8146	619291		
50286423005	MW-9I	HACH 8146	619291		
50286423006	MW-9D	HACH 8146	619291		
50286423007	MW-12D	HACH 8146	619291		
50286423008	DUP 1	HACH 8146	619291		
50286423001	MW-2S	EPA 353.2	618921		
50286423002	MW-2D	EPA 353.2	618921		
50286423003	MW-3S	EPA 353.2	618921		
50286423004	MW-3D	EPA 353.2	618921		
50286423005	MW-9I	EPA 353.2	618921		
50286423006	MW-9D	EPA 353.2	618921		
50286423007	MW-12D	EPA 353.2	618921		
50286423008	DUP 1	EPA 353.2	618921		
50286423001	MW-2S	EPA 365.1	619443	EPA 365.1	619615
50286423002	MW-2D	EPA 365.1	619443	EPA 365.1	619615
50286423003	MW-3S	EPA 365.1	619443	EPA 365.1	619615
50286423004	MW-3D	EPA 365.1	619443	EPA 365.1	619615
50286423005	MW-9I	EPA 365.1	619443	EPA 365.1	619615
50286423006	MW-9D	EPA 365.1	619443	EPA 365.1	619615
50286423007	MW-12D	EPA 365.1	619443	EPA 365.1	619615
50286423008	DUP 1	EPA 365.1	619443	EPA 365.1	619615
50286423001	MW-2S	SM 5310C	619451		
50286423002	MW-2D	SM 5310C	619451		
50286423003	MW-3S	SM 5310C	619451		
50286423004	MW-3D	SM 5310C	619451		
50286423005	MW-9I	SM 5310C	619451		
50286423006	MW-9D	SM 5310C	619451		
50286423007	MW-12D	SM 5310C	619451		
50286423008	DUP 1	SM 5310C	619451		
50286423001	MW-2S	SM 5310C	620839		
50286423002	MW-2D	SM 5310C	620839		
50286423003	MW-3S	SM 5310C	620839		
50286423004	MW-3D	SM 5310C	620839		
50286423005	MW-9I	SM 5310C	620839		
50286423006	MW-9D	SM 5310C	620839		
50286423007	MW-12D	SM 5310C	620839		
50286423008	DUP 1	SM 5310C	620839		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive	Copy To:	Company Name:
Indianapolis, IN 46256		Address:
Email: mark.breting@atcassociates.com	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Harding St Profile 1 Report 1	Pace Project Manager: Hayden Putt
Requested Due Date:	Project #:	Pace Profile #: 6246 Line 26

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE DW WT WW P SL OL WP AR OT TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX TYPE (see valid codes to left) (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
					START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other	TDS	(Cl, F, SO4) IC		Metals, Total*	Metals Diss, Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2						
13	MW-9S	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14	MW-9I	WT			5-3-21	1225			11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	005
15	MW-9D	WT			5-3-21	1140			11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	006
16	MW-10S	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17	MW-10D	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18	MW-11D	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19	MW-12S	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20	MW-11S	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21	MW-12D	WT			5-3-21	1352			11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	007
22	MW-13S	WT			5/3/21				11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23	MW-13D	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	
24	MW-14D	WT							11	3	3	4	1										X	X	X	X	X	X	X	X	X	X	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Jankowski	5-3-21	17:00	Mark Breting ATC	5/4/21	0830							
6020 (Be, Co, As, Se, Sb, Tl), 7470 (Hg).	Mark Breting	5/4/21	12:15	John P. [Signature]	5/4/21	1215							
** Dissolved FF 6010 (Mo, Mn)	John P. [Signature]	5/4/21	1250	[Signature]	5/4/21	1250	2.2	Y	N	Y			
Alkalinity = (Total, Bicarb & Carb)							2.4	Y	N	Y			
							2.2	Y	N	Y			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooled (Y/N)	Page 1 of 66	Samples Intact (Y/N)
PRINT Name of SAMPLER: Andy Jankowski							
SIGNATURE of SAMPLER: [Signature]							
DATE Signed: 5-3-21							



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C		
Required Client Information:		Required Project Information:		Invoice Information:		
Company: ATC Group Services		Report To: Mark Breting		Attention:		
Address: 7988 Centerpoint Drive		Copy To:		Company Name:		
Indianapolis, IN 46256		Purchase Order #:		Address:		
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Quote:		Regulatory Agency
Phone: NONE Fax:		Project #:		Pace Project Manager: Hayden Putt		State / Location
Requested Due Date:		Project #:		Pace Profile #: 6246 Line 26		IN

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -)</small> Sample Ids must be unique	MATRIX CODE <small>(see valid codes to left)</small>	CODE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)		
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn-Acetate	Na2S2O3	Methanol	Other	TDS	(Cl, F, SO4) IC		Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2			
				DATE	TIME	DATE	TIME																										
25	MW-15S	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
26	MW-15I	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
27	MW-15D	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
28	DUP 1	WT				5/3/21		11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	008
29	DUP 2	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
30	Field Blank 1	WT						9 3 2 3	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
31	MS1	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
32	MSD1	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
33	MS2	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
34	MSD2	WT						11 3 3 4	1											X	X	X	X	X	X	X	X	X	X	X	X	X	
35																																	
36																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Tachonish	5/3/21	17:00	Mark Breting/ATC	5/4/21	0830							
6020 (Be, Co, As, Se, Sb, Tl), 7470 (Hg).	Mark Breting	5/4/21	12:15	Robert Putt	5/4/21	1215							
** Dissolved FF 6010 (Mo, Mn)	Robert Putt	5/4/21	1250	M/PT	5/9/21	1250	2.2	Y	N	Y			
Alkalinity = (Total, Bicarb & Carb)							2.9	Y	N	Y			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooled (Y/N)	Page 62 of 66	Sampls Intact (Y/N)
PRINT Name of SAMPLER: Andy Tachonish							
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: 5-3-21						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DAP 5/4/21 1315

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 A B C D E F**
4. Cooler Temperature: 2.2/2.2, 2.4/2.4, 2.2/2.2, 1.1/1.1
 Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate</u>	/		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> <u>NaOH (>10)</u> <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	<u>1335</u>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H								Matrix	pH <2	pH >9	pH >10			
1																																						
2																																						
3													2				2	1	2	1	1	1		1									WT	✓	✓			
4													↓				↓	↓	↓	↓	↓	↓		↓														
5																																						
6													↓				↓	↓	↓	↓	↓	↓		↓														
7																																						
8																																						
9																																						
10																																						
11																																						
12																																						

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (≤6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
																															1 13	
2 14												2			2	1	2	1	1	1		1					WT	✓	✓			
3 15												↓			↓	↓	↓	↓	↓	↓		↓				↓	↓	✓	✓			
4 16																																
5 17																																
6 18																																
7 19																																
8 20																																
9 11												2			2	1	2	1	1	1		1				WT	✓	✓				
10 12																																
11 13																																
12 14																																

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10		
																																	1 25	
2 16																																		
3 11																																		
4 28													2			2	1	2	1	1	1									WT	✓	✓		
5 29																																		
6 30																																		
7 31																																		
8 32																																		
9 33																																		
10 34																																		
11 35																																		
12 36																																		

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				
						AF	Air Filter
						C	Air Cassettes
						R	Terra core kit
						SP5T	120mL Coliform Na Thiosulfate
						U	Summa Can
						ZPLC	Ziploc Bag
						WT	Water
						SL	Solid
						NAL	Non-aqueous liquid
						WP	Wipe

July 27, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Florida: Cert E871149 SEKS WET

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50286597001	PZ-100S	Water	05/04/21 09:09	05/05/21 15:10
50286597002	PZ-100D	Water	05/04/21 11:29	05/05/21 15:10
50286597003	PZ-101S	Water	05/04/21 09:59	05/05/21 15:10
50286597004	PZ-101D	Water	05/04/21 13:28	05/05/21 15:10
50286597005	DUP 3	Water	05/04/21 12:00	05/05/21 15:10
50286597006	Field Blank 2	Water	05/04/21 12:30	05/05/21 15:10
50286597007	MW-102D	Water	05/04/21 13:50	05/05/21 15:10
50286597008	MW-103S	Water	05/04/21 12:15	05/05/21 15:10
50286597009	MW-103I	Water	05/04/21 11:00	05/05/21 15:10
50286597010	MW-103D	Water	05/04/21 09:10	05/05/21 15:10
50286597011	MW-104D	Water	05/04/21 12:50	05/05/21 15:10
50286597012	PZ-100D Rad MS	Water	05/04/21 11:29	05/05/21 15:10
50286597013	PZ-100D Rad MSD	Water	05/04/21 11:29	05/05/21 15:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286597001	PZ-100S	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		50286597002	PZ-100D	EPA 9056	RMR
EPA 6010	JDG			15	PASI-I
EPA 6010	JDG			2	PASI-I
EPA 6020	CAW			4	PASI-I
EPA 903.1	MK1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	RMK			1	PASI-PA
SM 2320B	HCF			3	PASI-I
SM 2540C	WZE			1	PASI-I
SM 4500-H+B	SWJ			1	PASI-I
SM 4500-S2-D	WDB			1	PASI-I
HACH 8146	SWJ			1	PASI-I
EPA 353.2	SWJ			2	PASI-I
EPA 365.1	SKK			1	PASI-I
SM 5310C	GWA			1	PASI-I
SM 5310C	GWA			1	PASI-I
50286597003	PZ-101S			EPA 9056	RMR
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286597004	PZ-101D	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286597005	DUP 3	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50286597006	Field Blank 2	SM 4500-S2-D	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		EPA 9056	RMR	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6020	CAW	4	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	WZE	1	PASI-I		
		SM 4500-H+B	SWJ	1	PASI-I		
		SM 4500-S2-D	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I				
50286597007	MW-102D	EPA 9056	RMR	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JDG	2	PASI-I		
		EPA 6020	CAW	4	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	WZE	1	PASI-I		
		SM 4500-H+B	SWJ	1	PASI-I		
		SM 4500-S2-D	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50286597008	MW-103S	EPA 9056	RMR	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286597009	MW-103I	EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		SM 4500-S2-D	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
SM 2540C	WZE	1	PASI-I		
SM 4500-H+B	SWJ	1	PASI-I		
SM 4500-S2-D	WDB	1	PASI-I		
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286597010	MW-103D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50286597011	MW-104D	Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	WZE	1	PASI-I		
		SM 4500-H+B	SWJ	1	PASI-I		
		SM 4500-S2-D	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		EPA 9056	RMR	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JDG	2	PASI-I		
		EPA 6020	CAW	4	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		50286597012	PZ-100D Rad MS	Total Radium Calculation	RMK	1	PASI-PA
				SM 2320B	HCF	3	PASI-I
				SM 2540C	WZE	1	PASI-I
				SM 4500-H+B	SWJ	1	PASI-I
SM 4500-S2-D	WDB			1	PASI-I		
HACH 8146	SWJ			1	PASI-I		
EPA 353.2	SWJ			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	VAL			1	PASI-PA		
50286597013	PZ-100D Rad MSD			EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA		

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597001	PZ-100S					
EPA 9056	Chloride	359	mg/L	25.0	05/18/21 18:52	
EPA 9056	Fluoride	1.7	mg/L	0.10	05/18/21 18:35	
EPA 9056	Sulfate	477	mg/L	25.0	05/18/21 18:52	
EPA 6010	Aluminum	476	ug/L	200	05/12/21 12:08	
EPA 6010	Barium	43.1	ug/L	10.0	05/12/21 12:08	
EPA 6010	Boron	2320	ug/L	100	05/12/21 12:08	
EPA 6010	Calcium	175000	ug/L	1000	05/12/21 12:08	
EPA 6010	Iron	2800	ug/L	100	05/12/21 12:08	
EPA 6010	Lithium	57.6	ug/L	20.0	05/12/21 12:08	
EPA 6010	Magnesium	65000	ug/L	1000	05/12/21 12:08	
EPA 6010	Manganese	397	ug/L	10.0	05/12/21 12:08	
EPA 6010	Molybdenum	139	ug/L	10.0	05/12/21 12:08	
EPA 6010	Potassium	11000	ug/L	1000	05/12/21 12:08	
EPA 6010	Silica	17200	ug/L	450	05/12/21 12:08	N2
EPA 6010	Sodium	242000	ug/L	2000	05/12/21 14:07	
EPA 6010	Manganese, Dissolved	386	ug/L	10.0	05/12/21 08:04	
EPA 6010	Molybdenum, Dissolved	140	ug/L	10.0	05/12/21 08:04	
EPA 6020	Arsenic	3.2	ug/L	1.0	05/06/21 23:37	
EPA 903.1	Radium-226	0.0650 ± 0.459 (0.916) C:NA T:97%	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	0.868 ± 0.465 (0.839) C:75% T:92%	pCi/L		06/03/21 13:57	
Total Radium Calculation	Total Radium	0.933 ± 0.924 (1.76)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	314	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	314	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1470	mg/L	20.0	05/07/21 09:16	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/07/21 13:51	H3
SM 5310C	Total Organic Carbon	2.5	mg/L	1.0	05/11/21 16:58	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	05/15/21 01:16	
50286597002	PZ-100D					
EPA 9056	Chloride	224	mg/L	25.0	05/18/21 20:30	
EPA 9056	Fluoride	0.31	mg/L	0.10	05/18/21 19:41	
EPA 9056	Sulfate	642	mg/L	25.0	05/18/21 20:30	
EPA 6010	Barium	57.2	ug/L	10.0	05/12/21 12:10	
EPA 6010	Boron	8100	ug/L	100	05/12/21 12:10	
EPA 6010	Calcium	207000	ug/L	2000	05/12/21 12:50	
EPA 6010	Iron	3150	ug/L	100	05/12/21 12:10	
EPA 6010	Lithium	65.8	ug/L	20.0	05/12/21 12:10	
EPA 6010	Magnesium	55300	ug/L	1000	05/12/21 12:10	
EPA 6010	Manganese	224	ug/L	10.0	05/12/21 12:10	
EPA 6010	Molybdenum	169	ug/L	10.0	05/12/21 12:10	
EPA 6010	Potassium	10900	ug/L	1000	05/12/21 12:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597002	PZ-100D					
EPA 6010	Silica	11800	ug/L	450	05/12/21 12:10	N2
EPA 6010	Sodium	152000	ug/L	1000	05/12/21 13:39	
EPA 6010	Manganese, Dissolved	232	ug/L	10.0	05/12/21 08:06	
EPA 6010	Molybdenum, Dissolved	171	ug/L	10.0	05/12/21 08:06	
EPA 6020	Arsenic	62.1	ug/L	1.0	05/06/21 23:07	
EPA 903.1	Radium-226	0.514 ± 0.443 (0.659) C:NA T:100%	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	1.36 ± 0.460 (0.619) C:83% T:85%	pCi/L		06/07/21 11:02	
Total Radium Calculation	Total Radium	1.87 ± 0.903 (1.28)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	214	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	214	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1340	mg/L	20.0	05/07/21 09:16	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/07/21 13:52	H3
EPA 365.1	Phosphate as P04	0.54	mg/L	0.15	05/12/21 18:19	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	05/11/21 17:11	
50286597003	PZ-101S					
EPA 9056	Chloride	123	mg/L	2.5	05/18/21 21:35	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/18/21 21:18	
EPA 9056	Sulfate	537	mg/L	25.0	05/18/21 21:51	
EPA 6010	Barium	163	ug/L	10.0	05/12/21 12:20	
EPA 6010	Boron	6950	ug/L	100	05/12/21 12:20	
EPA 6010	Calcium	174000	ug/L	1000	05/12/21 12:20	
EPA 6010	Iron	5770	ug/L	100	05/12/21 12:20	
EPA 6010	Lithium	49.8	ug/L	20.0	05/12/21 12:20	
EPA 6010	Magnesium	51700	ug/L	1000	05/12/21 12:20	
EPA 6010	Manganese	766	ug/L	10.0	05/12/21 12:20	
EPA 6010	Molybdenum	94.8	ug/L	10.0	05/12/21 12:20	
EPA 6010	Potassium	5790	ug/L	1000	05/12/21 12:20	
EPA 6010	Silica	12900	ug/L	450	05/12/21 12:20	N2
EPA 6010	Sodium	94800	ug/L	1000	05/12/21 13:45	
EPA 6010	Manganese, Dissolved	506	ug/L	10.0	05/12/21 08:16	
EPA 6010	Molybdenum, Dissolved	33.6	ug/L	10.0	05/12/21 08:16	
EPA 6020	Arsenic	19.4	ug/L	1.0	05/06/21 23:41	
EPA 903.1	Radium-226	0.349 ± 0.456 (0.752) C:NA T:96%	pCi/L		06/04/21 13:21	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597003	PZ-101S					
EPA 904.0	Radium-228	0.307 ± 0.424 (0.910) C:73% T:89%	pCi/L		06/03/21 13:57	
Total Radium Calculation	Total Radium	0.656 ± 0.880 (1.66)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO ₃	214	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO ₃)	214	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1020	mg/L	20.0	05/07/21 09:17	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/07/21 13:56	H3
HACH 8146	Iron, Ferrous	0.43	mg/L	0.20	05/06/21 16:05	H3,N2
EPA 365.1	Phosphate as P04	0.29	mg/L	0.15	05/12/21 18:21	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	05/07/21 20:04	
50286597004	PZ-101D					
EPA 9056	Chloride	135	mg/L	25.0	05/18/21 23:13	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/18/21 22:40	
EPA 9056	Sulfate	638	mg/L	25.0	05/18/21 23:13	
EPA 6010	Barium	66.4	ug/L	10.0	05/12/21 12:22	
EPA 6010	Boron	9720	ug/L	100	05/12/21 12:22	
EPA 6010	Calcium	174000	ug/L	1000	05/12/21 12:22	
EPA 6010	Iron	3430	ug/L	100	05/12/21 12:22	
EPA 6010	Lithium	105	ug/L	20.0	05/12/21 12:22	
EPA 6010	Magnesium	49300	ug/L	1000	05/12/21 12:22	
EPA 6010	Manganese	461	ug/L	10.0	05/12/21 12:22	
EPA 6010	Molybdenum	278	ug/L	10.0	05/12/21 12:22	
EPA 6010	Potassium	8100	ug/L	1000	05/12/21 12:22	
EPA 6010	Silica	9760	ug/L	450	05/12/21 12:22	N2
EPA 6010	Sodium	126000	ug/L	1000	05/12/21 13:47	
EPA 6010	Manganese, Dissolved	474	ug/L	10.0	05/12/21 08:18	
EPA 6010	Molybdenum, Dissolved	287	ug/L	10.0	05/12/21 08:18	
EPA 6020	Arsenic	4.7	ug/L	1.0	05/06/21 23:46	
EPA 903.1	Radium-226	0.665 ± 0.527 (0.716) C:NA T:99%	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	0.438 ± 0.428 (0.883) C:71% T:89%	pCi/L		06/03/21 13:57	
Total Radium Calculation	Total Radium	1.10 ± 0.955 (1.60)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO ₃	149	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO ₃)	149	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1170	mg/L	20.0	05/07/21 09:18	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/07/21 14:03	H3
HACH 8146	Iron, Ferrous	0.38	mg/L	0.20	05/06/21 16:05	H3,N2

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286597004	PZ-101D					
EPA 365.1	Phosphate as P04	0.29	mg/L	0.15	05/12/21 18:22	
50286597005	DUP 3					
EPA 9056	Chloride	111	mg/L	25.0	05/19/21 00:01	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/18/21 23:29	
EPA 9056	Sulfate	543	mg/L	25.0	05/19/21 00:01	
EPA 6010	Barium	165	ug/L	10.0	05/12/21 12:24	
EPA 6010	Boron	7010	ug/L	100	05/12/21 12:24	
EPA 6010	Calcium	175000	ug/L	1000	05/12/21 12:24	
EPA 6010	Iron	5760	ug/L	100	05/12/21 12:24	
EPA 6010	Lithium	48.1	ug/L	20.0	05/12/21 12:24	
EPA 6010	Magnesium	51600	ug/L	1000	05/12/21 12:24	
EPA 6010	Manganese	770	ug/L	10.0	05/12/21 12:24	
EPA 6010	Molybdenum	94.7	ug/L	10.0	05/12/21 12:24	
EPA 6010	Potassium	5770	ug/L	1000	05/12/21 12:24	
EPA 6010	Silica	12800	ug/L	450	05/12/21 12:24	N2
EPA 6010	Sodium	96000	ug/L	1000	05/12/21 13:49	
EPA 6010	Manganese, Dissolved	504	ug/L	10.0	05/12/21 08:20	
EPA 6010	Molybdenum, Dissolved	33.5	ug/L	10.0	05/12/21 08:20	
EPA 6020	Arsenic	19.3	ug/L	1.0	05/06/21 23:50	
EPA 903.1	Radium-226	0.768 ± 0.633 (0.915) C:NA T:96%	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	0.0103 ± 0.434 (1.000) C:69% T:89%	pCi/L		06/03/21 13:57	
Total Radium Calculation	Total Radium	0.778 ± 1.07 (1.92)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	219	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	219	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1080	mg/L	20.0	05/07/21 09:18	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/07/21 14:03	H3
HACH 8146	Iron, Ferrous	0.22	mg/L	0.20	05/06/21 16:05	H3, N2
EPA 365.1	Phosphate as P04	0.17	mg/L	0.15	05/12/21 18:22	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	05/07/21 20:44	
50286597006	Field Blank 2					
EPA 903.1	Radium-226	0.000 ± 0.298 (0.669) C:NA T:95%	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	0.300 ± 0.470 (1.02) C:71% T:85%	pCi/L		06/03/21 13:58	
Total Radium Calculation	Total Radium	0.300 ± 0.768 (1.69)	pCi/L		06/08/21 16:00	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597006	Field Blank 2					
SM 4500-H+B	pH at 25 Degrees C	6.4	Std. Units	0.10	05/07/21 14:10	H3
50286597007	MW-102D					
EPA 9056	Chloride	163	mg/L	25.0	05/19/21 00:50	
EPA 9056	Fluoride	0.13	mg/L	0.10	05/19/21 00:34	
EPA 9056	Sulfate	1280	mg/L	25.0	05/19/21 00:50	
EPA 6010	Aluminum	368	ug/L	200	05/12/21 12:32	
EPA 6010	Barium	60.8	ug/L	10.0	05/12/21 12:32	
EPA 6010	Boron	21600	ug/L	100	05/12/21 12:32	
EPA 6010	Calcium	332000	ug/L	2000	05/12/21 13:00	
EPA 6010	Iron	5400	ug/L	100	05/12/21 12:32	
EPA 6010	Lithium	64.0	ug/L	20.0	05/12/21 12:32	
EPA 6010	Magnesium	59800	ug/L	1000	05/12/21 12:32	
EPA 6010	Manganese	415	ug/L	10.0	05/12/21 12:32	
EPA 6010	Molybdenum	486	ug/L	10.0	05/12/21 12:32	
EPA 6010	Potassium	16200	ug/L	1000	05/12/21 12:32	
EPA 6010	Silica	14000	ug/L	450	05/12/21 12:32	N2
EPA 6010	Sodium	166000	ug/L	1000	05/12/21 13:57	
EPA 6010	Manganese, Dissolved	429	ug/L	10.0	05/12/21 08:22	
EPA 6010	Molybdenum, Dissolved	495	ug/L	10.0	05/12/21 08:22	
EPA 6020	Arsenic	57.7	ug/L	1.0	05/07/21 00:07	
EPA 903.1	Radium-226	0.204 ± 0.401 (0.732)	pCi/L		06/04/21 13:21	
EPA 904.0	Radium-228	0.713 ± 0.411 (0.740)	pCi/L		06/03/21 13:58	
		C:NA T:96%				
		C:76%				
		T:80%				
Total Radium Calculation	Total Radium	0.917 ± 0.812 (1.47)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	99.5	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	99.5	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1960	mg/L	40.0	05/07/21 09:19	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/07/21 14:12	H3
EPA 365.1	Phosphate as P04	0.96	mg/L	0.15	05/12/21 18:25	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	05/07/21 21:23	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	05/15/21 04:54	
50286597008	MW-103S					
EPA 9056	Chloride	59.3	mg/L	2.5	05/19/21 01:56	
EPA 9056	Fluoride	0.15	mg/L	0.10	05/19/21 01:07	
EPA 9056	Sulfate	252	mg/L	25.0	05/19/21 02:12	
EPA 6010	Aluminum	582	ug/L	200	05/12/21 12:36	
EPA 6010	Barium	62.2	ug/L	10.0	05/12/21 12:36	
EPA 6010	Boron	918	ug/L	100	05/12/21 12:36	
EPA 6010	Calcium	214000	ug/L	2000	05/12/21 13:02	
EPA 6010	Iron	8150	ug/L	100	05/12/21 12:36	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597008	MW-103S					
EPA 6010	Magnesium	61800	ug/L	1000	05/12/21 12:36	
EPA 6010	Manganese	345	ug/L	10.0	05/12/21 12:36	
EPA 6010	Molybdenum	14.8	ug/L	10.0	05/12/21 12:36	
EPA 6010	Potassium	2810	ug/L	1000	05/12/21 12:36	
EPA 6010	Silica	25400	ug/L	450	05/12/21 12:36	N2
EPA 6010	Sodium	40800	ug/L	1000	05/12/21 13:59	
EPA 6010	Manganese, Dissolved	353	ug/L	10.0	05/12/21 08:28	
EPA 6010	Molybdenum, Dissolved	15.4	ug/L	10.0	05/12/21 08:28	
EPA 6020	Arsenic	14.9	ug/L	1.0	05/07/21 00:12	
EPA 6020	Cobalt	2.9	ug/L	1.0	05/07/21 00:12	
EPA 903.1	Radium-226	0.191 ± 0.451 (0.836) C:NA T:99%	pCi/L		06/04/21 13:34	
EPA 904.0	Radium-228	0.366 ± 0.363 (0.744) C:72% T:88%	pCi/L		06/03/21 13:58	
Total Radium Calculation	Total Radium	0.557 ± 0.814 (1.58)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	541	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	541	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	976	mg/L	20.0	05/07/21 09:19	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	05/07/21 14:13	H3
HACH 8146	Iron, Ferrous	2.8	mg/L	1.0	05/06/21 16:06	H3,N2
SM 5310C	Total Organic Carbon	5.5	mg/L	1.0	05/07/21 22:27	
SM 5310C	Dissolved Organic Carbon	4.3	mg/L	1.0	05/15/21 05:14	
50286597009	MW-103I					
EPA 9056	Chloride	118	mg/L	25.0	05/19/21 08:58	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/19/21 02:28	
EPA 9056	Sulfate	57.8	mg/L	2.5	05/19/21 02:44	
EPA 6010	Barium	204	ug/L	10.0	05/12/21 12:38	
EPA 6010	Boron	299	ug/L	100	05/12/21 12:38	
EPA 6010	Calcium	85600	ug/L	1000	05/12/21 12:38	
EPA 6010	Iron	1730	ug/L	100	05/12/21 12:38	
EPA 6010	Magnesium	26100	ug/L	1000	05/12/21 12:38	
EPA 6010	Manganese	263	ug/L	10.0	05/12/21 12:38	
EPA 6010	Potassium	7230	ug/L	1000	05/12/21 12:38	
EPA 6010	Silica	10100	ug/L	450	05/12/21 12:38	N2
EPA 6010	Sodium	76100	ug/L	1000	05/12/21 14:01	
EPA 6010	Manganese, Dissolved	270	ug/L	10.0	05/12/21 08:30	
EPA 903.1	Radium-226	1.67 ± 0.771 (0.749) C:NA T:100%	pCi/L		06/04/21 13:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286597009	MW-103I					
EPA 904.0	Radium-228	0.998 ± 0.467 (0.771) C:73% T:82%	pCi/L		06/03/21 13:58	
Total Radium Calculation	Total Radium	2.67 ± 1.24 (1.52)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	285	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	285	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	518	mg/L	10.0	05/07/21 09:19	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/07/21 14:15	H3
EPA 365.1	Phosphate as P04	0.31	mg/L	0.15	05/12/21 18:26	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.0	05/07/21 23:07	
SM 5310C	Dissolved Organic Carbon	2.6	mg/L	1.0	05/15/21 06:13	
50286597010	MW-103D					
EPA 9056	Chloride	146	mg/L	25.0	05/19/21 09:15	
EPA 9056	Fluoride	0.12	mg/L	0.10	05/19/21 03:01	
EPA 9056	Sulfate	63.2	mg/L	2.5	05/19/21 03:17	
EPA 6010	Barium	325	ug/L	10.0	05/12/21 12:40	
EPA 6010	Boron	337	ug/L	100	05/12/21 12:40	
EPA 6010	Calcium	85600	ug/L	1000	05/12/21 12:40	
EPA 6010	Iron	2340	ug/L	100	05/12/21 12:40	
EPA 6010	Magnesium	29600	ug/L	1000	05/12/21 12:40	
EPA 6010	Manganese	127	ug/L	10.0	05/12/21 12:40	
EPA 6010	Potassium	5540	ug/L	1000	05/12/21 12:40	
EPA 6010	Silica	12500	ug/L	450	05/12/21 12:40	N2
EPA 6010	Sodium	75700	ug/L	1000	05/12/21 14:03	
EPA 6010	Manganese, Dissolved	133	ug/L	10.0	05/12/21 08:32	
EPA 903.1	Radium-226	0.913 ± 0.696 (0.990) C:NA T:97%	pCi/L		06/04/21 13:34	
EPA 904.0	Radium-228	0.108 ± 0.372 (0.840) C:70% T:87%	pCi/L		06/03/21 13:58	
Total Radium Calculation	Total Radium	1.02 ± 1.07 (1.83)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	254	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	254	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	577	mg/L	10.0	05/07/21 09:20	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/07/21 14:17	H3
SM 5310C	Total Organic Carbon	2.2	mg/L	1.0	05/07/21 23:27	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	05/15/21 06:33	
50286597011	MW-104D					
EPA 9056	Chloride	106	mg/L	2.5	05/19/21 03:50	
EPA 9056	Fluoride	0.11	mg/L	0.10	05/19/21 03:33	
EPA 9056	Sulfate	394	mg/L	25.0	05/19/21 04:06	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286597011	MW-104D					
EPA 6010	Barium	61.9	ug/L	10.0	05/12/21 12:42	
EPA 6010	Boron	4470	ug/L	100	05/12/21 12:42	
EPA 6010	Calcium	192000	ug/L	1000	05/12/21 12:42	
EPA 6010	Iron	3770	ug/L	100	05/12/21 12:42	
EPA 6010	Lithium	39.9	ug/L	20.0	05/12/21 12:42	
EPA 6010	Magnesium	52700	ug/L	1000	05/12/21 12:42	
EPA 6010	Manganese	497	ug/L	10.0	05/12/21 12:42	
EPA 6010	Molybdenum	26.0	ug/L	10.0	05/12/21 12:42	
EPA 6010	Potassium	9600	ug/L	1000	05/12/21 12:42	
EPA 6010	Silica	11900	ug/L	450	05/12/21 12:42	N2
EPA 6010	Sodium	76700	ug/L	1000	05/12/21 14:05	
EPA 6010	Manganese, Dissolved	518	ug/L	10.0	05/12/21 08:34	
EPA 6010	Molybdenum, Dissolved	26.5	ug/L	10.0	05/12/21 08:34	
EPA 6020	Arsenic	3.4	ug/L	1.0	05/07/21 00:25	
EPA 903.1	Radium-226	1.46 ± 0.674 (0.511)	pCi/L		06/04/21 13:34	
EPA 904.0	Radium-228	C:NA T:94% 0.721 ± 0.439 (0.812)	pCi/L		06/03/21 13:58	
		C:69% T:89%				
Total Radium Calculation	Total Radium	2.18 ± 1.11 (1.32)	pCi/L		06/08/21 16:00	
SM 2320B	Alkalinity, Total as CaCO3	376	mg/L	2.0	05/07/21 16:26	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	376	mg/L	2.0	05/07/21 16:26	
SM 2540C	Total Dissolved Solids	1080	mg/L	20.0	05/07/21 09:20	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	05/07/21 14:18	H3
HACH 8146	Iron, Ferrous	1.3	mg/L	0.40	05/06/21 16:07	H3, N2
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	05/07/21 23:47	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	05/15/21 06:53	
50286597012	PZ-100D Rad MS					
EPA 903.1	Radium-226	94.48 %REC ± NA (NA)	pCi/L		06/04/21 13:34	
EPA 904.0	Radium-228	C:NA T:NA 85.20 %REC ± NA (NA)	pCi/L		06/07/21 11:02	
		C:NA T:NA				
50286597013	PZ-100D Rad MSD					
EPA 903.1	Radium-226	85.61 %REC 9.85 RPD ± NA (NA)	pCi/L		06/04/21 13:34	
		C:NA T:NA				

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286597013	PZ-100D Rad MSD					
EPA 904.0	Radium-228	90.84 %REC 6.41 RPD ± NA (NA) C:NA T:NA	pCi/L		06/07/21 11:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100S	Lab ID: 50286597001	Collected: 05/04/21 09:09	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	359	mg/L	25.0	100		05/18/21 18:52	16887-00-6	
Fluoride	1.7	mg/L	0.10	1		05/18/21 18:35	16984-48-8	
Sulfate	477	mg/L	25.0	100		05/18/21 18:52	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	476	ug/L	200	1	05/11/21 07:55	05/12/21 12:08	7429-90-5	
Barium	43.1	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:08	7440-39-3	
Boron	2320	ug/L	100	1	05/11/21 07:55	05/12/21 12:08	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:08	7440-43-9	
Calcium	175000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:08	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:08	7440-47-3	
Iron	2800	ug/L	100	1	05/11/21 07:55	05/12/21 12:08	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:08	7439-92-1	
Lithium	57.6	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:08	7439-93-2	
Magnesium	65000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:08	7439-95-4	
Manganese	397	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:08	7439-96-5	
Molybdenum	139	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:08	7439-98-7	
Potassium	11000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:08	7440-09-7	
Silica	17200	ug/L	450	1	05/11/21 07:55	05/12/21 12:08	7631-86-9	N2
Sodium	242000	ug/L	2000	2	05/11/21 07:55	05/12/21 14:07	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	386	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:04	7439-96-5	
Molybdenum, Dissolved	140	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:04	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:37	7440-36-0	
Arsenic	3.2	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:37	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:37	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:37	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	314	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	314	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1470	mg/L	20.0	1		05/07/21 09:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100S		Lab ID: 50286597001		Collected: 05/04/21 09:09	Received: 05/05/21 15:10	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/07/21 13:51		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:37	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:37	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	ND	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:19		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	2.5	mg/L	1.0	1		05/11/21 16:58	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	1.1	mg/L	1.0	1		05/15/21 01:16		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100D	Lab ID: 50286597002	Collected: 05/04/21 11:29	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	224	mg/L	25.0	100		05/18/21 20:30	16887-00-6	
Fluoride	0.31	mg/L	0.10	1		05/18/21 19:41	16984-48-8	
Sulfate	642	mg/L	25.0	100		05/18/21 20:30	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:10	7429-90-5	
Barium	57.2	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:10	7440-39-3	
Boron	8100	ug/L	100	1	05/11/21 07:55	05/12/21 12:10	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:10	7440-43-9	
Calcium	207000	ug/L	2000	2	05/11/21 07:55	05/12/21 12:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:10	7440-47-3	
Iron	3150	ug/L	100	1	05/11/21 07:55	05/12/21 12:10	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:10	7439-92-1	
Lithium	65.8	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:10	7439-93-2	
Magnesium	55300	ug/L	1000	1	05/11/21 07:55	05/12/21 12:10	7439-95-4	
Manganese	224	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:10	7439-96-5	
Molybdenum	169	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:10	7439-98-7	
Potassium	10900	ug/L	1000	1	05/11/21 07:55	05/12/21 12:10	7440-09-7	
Silica	11800	ug/L	450	1	05/11/21 07:55	05/12/21 12:10	7631-86-9	N2
Sodium	152000	ug/L	1000	1	05/11/21 07:55	05/12/21 13:39	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	232	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:06	7439-96-5	
Molybdenum, Dissolved	171	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:06	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:07	7440-36-0	
Arsenic	62.1	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:07	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:07	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	214	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	214	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1340	mg/L	20.0	1		05/07/21 09:16		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100D		Lab ID: 50286597002		Collected: 05/04/21 11:29	Received: 05/05/21 15:10	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/07/21 13:52		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:50	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:50	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	0.54	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:19		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	1.4	mg/L	1.0	1		05/11/21 17:11	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/15/21 02:15		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101S	Lab ID: 50286597003	Collected: 05/04/21 09:59	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	123	mg/L	2.5	10		05/18/21 21:35	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/18/21 21:18	16984-48-8	
Sulfate	537	mg/L	25.0	100		05/18/21 21:51	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:20	7429-90-5	
Barium	163	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:20	7440-39-3	
Boron	6950	ug/L	100	1	05/11/21 07:55	05/12/21 12:20	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:20	7440-43-9	
Calcium	174000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:20	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:20	7440-47-3	
Iron	5770	ug/L	100	1	05/11/21 07:55	05/12/21 12:20	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:20	7439-92-1	
Lithium	49.8	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:20	7439-93-2	
Magnesium	51700	ug/L	1000	1	05/11/21 07:55	05/12/21 12:20	7439-95-4	
Manganese	766	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:20	7439-96-5	
Molybdenum	94.8	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:20	7439-98-7	
Potassium	5790	ug/L	1000	1	05/11/21 07:55	05/12/21 12:20	7440-09-7	
Silica	12900	ug/L	450	1	05/11/21 07:55	05/12/21 12:20	7631-86-9	N2
Sodium	94800	ug/L	1000	1	05/11/21 07:55	05/12/21 13:45	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	506	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:16	7439-96-5	
Molybdenum, Dissolved	33.6	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:16	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:41	7440-36-0	
Arsenic	19.4	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:41	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:41	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:41	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	214	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	214	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1020	mg/L	20.0	1		05/07/21 09:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101S	Lab ID: 50286597003	Collected: 05/04/21 09:59	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/07/21 13:56		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	0.43	mg/L	0.20	1		05/06/21 16:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:42	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:42	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.29	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:21		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.8	mg/L	1.0	1		05/07/21 20:04	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/15/21 03:15		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101D	Lab ID: 50286597004	Collected: 05/04/21 13:28	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	135	mg/L	25.0	100		05/18/21 23:13	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/18/21 22:40	16984-48-8	
Sulfate	638	mg/L	25.0	100		05/18/21 23:13	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:22	7429-90-5	
Barium	66.4	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:22	7440-39-3	
Boron	9720	ug/L	100	1	05/11/21 07:55	05/12/21 12:22	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:22	7440-43-9	
Calcium	174000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:22	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:22	7440-47-3	
Iron	3430	ug/L	100	1	05/11/21 07:55	05/12/21 12:22	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:22	7439-92-1	
Lithium	105	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:22	7439-93-2	
Magnesium	49300	ug/L	1000	1	05/11/21 07:55	05/12/21 12:22	7439-95-4	
Manganese	461	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:22	7439-96-5	
Molybdenum	278	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:22	7439-98-7	
Potassium	8100	ug/L	1000	1	05/11/21 07:55	05/12/21 12:22	7440-09-7	
Silica	9760	ug/L	450	1	05/11/21 07:55	05/12/21 12:22	7631-86-9	N2
Sodium	126000	ug/L	1000	1	05/11/21 07:55	05/12/21 13:47	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	474	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:18	7439-96-5	
Molybdenum, Dissolved	287	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:18	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:46	7440-36-0	
Arsenic	4.7	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:46	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:46	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	149	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	149	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1170	mg/L	20.0	1		05/07/21 09:18		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101D		Lab ID: 50286597004		Collected: 05/04/21 13:28	Received: 05/05/21 15:10	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/07/21 14:03		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	0.38	mg/L	0.20	1		05/06/21 16:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 08:09	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 08:09	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	0.29	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:22		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	ND	mg/L	1.0	1		05/07/21 20:24	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/15/21 03:35		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: DUP 3	Lab ID: 50286597005	Collected: 05/04/21 12:00	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	111	mg/L	25.0	100		05/19/21 00:01	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/18/21 23:29	16984-48-8	
Sulfate	543	mg/L	25.0	100		05/19/21 00:01	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:24	7429-90-5	
Barium	165	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:24	7440-39-3	
Boron	7010	ug/L	100	1	05/11/21 07:55	05/12/21 12:24	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:24	7440-43-9	
Calcium	175000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:24	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:24	7440-47-3	
Iron	5760	ug/L	100	1	05/11/21 07:55	05/12/21 12:24	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:24	7439-92-1	
Lithium	48.1	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:24	7439-93-2	
Magnesium	51600	ug/L	1000	1	05/11/21 07:55	05/12/21 12:24	7439-95-4	
Manganese	770	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:24	7439-96-5	
Molybdenum	94.7	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:24	7439-98-7	
Potassium	5770	ug/L	1000	1	05/11/21 07:55	05/12/21 12:24	7440-09-7	
Silica	12800	ug/L	450	1	05/11/21 07:55	05/12/21 12:24	7631-86-9	N2
Sodium	96000	ug/L	1000	1	05/11/21 07:55	05/12/21 13:49	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	504	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:20	7439-96-5	
Molybdenum, Dissolved	33.5	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:20	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:50	7440-36-0	
Arsenic	19.3	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:50	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:50	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:50	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	219	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	219	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1080	mg/L	20.0	1		05/07/21 09:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: DUP 3		Lab ID: 50286597005		Collected: 05/04/21 12:00	Received: 05/05/21 15:10	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/07/21 14:03		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	0.22	mg/L	0.20	1		05/06/21 16:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:59	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:59	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	0.17	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:22		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	1.8	mg/L	1.0	1		05/07/21 20:44	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/15/21 03:55		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: Field Blank 2	Lab ID: 50286597006	Collected: 05/04/21 12:30	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		05/19/21 00:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/19/21 00:18	16984-48-8	
Sulfate	ND	mg/L	0.25	1		05/19/21 00:18	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:30	7429-90-5	
Barium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:30	7440-39-3	
Boron	ND	ug/L	100	1	05/11/21 07:55	05/12/21 12:30	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:30	7440-43-9	
Calcium	ND	ug/L	1000	1	05/11/21 07:55	05/12/21 12:30	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:30	7440-47-3	
Iron	ND	ug/L	100	1	05/11/21 07:55	05/12/21 12:30	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:30	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:30	7439-93-2	
Magnesium	ND	ug/L	1000	1	05/11/21 07:55	05/12/21 12:30	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:30	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:30	7439-98-7	
Potassium	ND	ug/L	1000	1	05/11/21 07:55	05/12/21 12:30	7440-09-7	
Silica	ND	ug/L	450	1	05/11/21 07:55	05/12/21 12:30	7631-86-9	N2
Sodium	ND	ug/L	1000	1	05/11/21 07:55	05/12/21 13:51	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:54	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:54	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:54	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/06/21 23:54	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO ₃	ND	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		05/07/21 09:18		PL
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.4	Std. Units	0.10	1		05/07/21 14:10		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: Field Blank 2	Lab ID: 50286597006	Collected: 05/04/21 12:30	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:06		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 08:03	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 08:03	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:23		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/07/21 21:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-102D	Lab ID: 50286597007	Collected: 05/04/21 13:50	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	163	mg/L	25.0	100		05/19/21 00:50	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		05/19/21 00:34	16984-48-8	
Sulfate	1280	mg/L	25.0	100		05/19/21 00:50	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	368	ug/L	200	1	05/11/21 07:55	05/12/21 12:32	7429-90-5	
Barium	60.8	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:32	7440-39-3	
Boron	21600	ug/L	100	1	05/11/21 07:55	05/12/21 12:32	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:32	7440-43-9	
Calcium	332000	ug/L	2000	2	05/11/21 07:55	05/12/21 13:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:32	7440-47-3	
Iron	5400	ug/L	100	1	05/11/21 07:55	05/12/21 12:32	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:32	7439-92-1	
Lithium	64.0	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:32	7439-93-2	
Magnesium	59800	ug/L	1000	1	05/11/21 07:55	05/12/21 12:32	7439-95-4	
Manganese	415	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:32	7439-96-5	
Molybdenum	486	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:32	7439-98-7	
Potassium	16200	ug/L	1000	1	05/11/21 07:55	05/12/21 12:32	7440-09-7	
Silica	14000	ug/L	450	1	05/11/21 07:55	05/12/21 12:32	7631-86-9	N2
Sodium	166000	ug/L	1000	1	05/11/21 07:55	05/12/21 13:57	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	429	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:22	7439-96-5	
Molybdenum, Dissolved	495	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:22	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:07	7440-36-0	
Arsenic	57.7	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:07	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:07	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	99.5	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	99.5	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1960	mg/L	40.0	1		05/07/21 09:19		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-102D	Lab ID: 50286597007	Collected: 05/04/21 13:50	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/07/21 14:12		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:06		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 08:12	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 08:12	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.96	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:25		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.7	mg/L	1.0	1		05/07/21 21:23	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.1	mg/L	1.0	1		05/15/21 04:54		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103S	Lab ID: 50286597008	Collected: 05/04/21 12:15	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	59.3	mg/L	2.5	10		05/19/21 01:56	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		05/19/21 01:07	16984-48-8	
Sulfate	252	mg/L	25.0	100		05/19/21 02:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	582	ug/L	200	1	05/11/21 07:55	05/12/21 12:36	7429-90-5	
Barium	62.2	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:36	7440-39-3	
Boron	918	ug/L	100	1	05/11/21 07:55	05/12/21 12:36	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:36	7440-43-9	
Calcium	214000	ug/L	2000	2	05/11/21 07:55	05/12/21 13:02	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:36	7440-47-3	
Iron	8150	ug/L	100	1	05/11/21 07:55	05/12/21 12:36	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:36	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:36	7439-93-2	
Magnesium	61800	ug/L	1000	1	05/11/21 07:55	05/12/21 12:36	7439-95-4	
Manganese	345	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:36	7439-96-5	
Molybdenum	14.8	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:36	7439-98-7	
Potassium	2810	ug/L	1000	1	05/11/21 07:55	05/12/21 12:36	7440-09-7	
Silica	25400	ug/L	450	1	05/11/21 07:55	05/12/21 12:36	7631-86-9	N2
Sodium	40800	ug/L	1000	1	05/11/21 07:55	05/12/21 13:59	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	353	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:28	7439-96-5	
Molybdenum, Dissolved	15.4	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:28	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:12	7440-36-0	
Arsenic	14.9	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:12	7440-38-2	
Cobalt	2.9	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:12	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:12	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	541	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	541	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	976	mg/L	20.0	1		05/07/21 09:19		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-103S Lab ID: 50286597008 Collected: 05/04/21 12:15 Received: 05/05/21 15:10 Matrix: Water								
4500H+ pH, Electrometric Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		05/07/21 14:13		H3
4500S2D Sulfide Water Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	2.8	mg/L	1.0	5		05/06/21 16:06		H3,N2
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 08:01	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 08:01	14797-65-0	
365.1 Total Phosphorus Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:25		
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	5.5	mg/L	1.0	1		05/07/21 22:27	7440-44-0	
5310C Dissolved Organic Carbon Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	4.3	mg/L	1.0	1		05/15/21 05:14		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-1031	Lab ID: 50286597009	Collected: 05/04/21 11:00	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	118	mg/L	25.0	100		05/19/21 08:58	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/19/21 02:28	16984-48-8	
Sulfate	57.8	mg/L	2.5	10		05/19/21 02:44	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:38	7429-90-5	
Barium	204	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:38	7440-39-3	
Boron	299	ug/L	100	1	05/11/21 07:55	05/12/21 12:38	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:38	7440-43-9	
Calcium	85600	ug/L	1000	1	05/11/21 07:55	05/12/21 12:38	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:38	7440-47-3	
Iron	1730	ug/L	100	1	05/11/21 07:55	05/12/21 12:38	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:38	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:38	7439-93-2	
Magnesium	26100	ug/L	1000	1	05/11/21 07:55	05/12/21 12:38	7439-95-4	
Manganese	263	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:38	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:38	7439-98-7	
Potassium	7230	ug/L	1000	1	05/11/21 07:55	05/12/21 12:38	7440-09-7	
Silica	10100	ug/L	450	1	05/11/21 07:55	05/12/21 12:38	7631-86-9	N2
Sodium	76100	ug/L	1000	1	05/11/21 07:55	05/12/21 14:01	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	270	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:30	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:30	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:16	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:16	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:16	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	285	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	285	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	518	mg/L	10.0	1		05/07/21 09:19		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103I	Lab ID: 50286597009	Collected: 05/04/21 11:00	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/07/21 14:15		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:07		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:48	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:48	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.31	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:26		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	2.5	mg/L	1.0	1		05/07/21 23:07	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.6	mg/L	1.0	1		05/15/21 06:13		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103D	Lab ID: 50286597010	Collected: 05/04/21 09:10	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	146	mg/L	25.0	100		05/19/21 09:15	16887-00-6	
Fluoride	0.12	mg/L	0.10	1		05/19/21 03:01	16984-48-8	
Sulfate	63.2	mg/L	2.5	10		05/19/21 03:17	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:40	7429-90-5	
Barium	325	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:40	7440-39-3	
Boron	337	ug/L	100	1	05/11/21 07:55	05/12/21 12:40	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:40	7440-43-9	
Calcium	85600	ug/L	1000	1	05/11/21 07:55	05/12/21 12:40	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:40	7440-47-3	
Iron	2340	ug/L	100	1	05/11/21 07:55	05/12/21 12:40	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:40	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:40	7439-93-2	
Magnesium	29600	ug/L	1000	1	05/11/21 07:55	05/12/21 12:40	7439-95-4	
Manganese	127	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:40	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:40	7439-98-7	
Potassium	5540	ug/L	1000	1	05/11/21 07:55	05/12/21 12:40	7440-09-7	
Silica	12500	ug/L	450	1	05/11/21 07:55	05/12/21 12:40	7631-86-9	N2
Sodium	75700	ug/L	1000	1	05/11/21 07:55	05/12/21 14:03	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	133	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:32	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:32	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:20	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:20	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:20	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:20	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	254	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	254	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	577	mg/L	10.0	1		05/07/21 09:20		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103D	Lab ID: 50286597010	Collected: 05/04/21 09:10	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/07/21 14:17		H3
4500S2D Sulfide Water								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/06/21 16:07		H3,N2
353.2 Nitrogen, NO2/NO3 unpres								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 07:39	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 07:39	14797-65-0	
365.1 Total Phosphorus								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:26		
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.2	mg/L	1.0	1		05/07/21 23:27	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.6	mg/L	1.0	1		05/15/21 06:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-104D	Lab ID: 50286597011	Collected: 05/04/21 12:50	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	106	mg/L	2.5	10		05/19/21 03:50	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		05/19/21 03:33	16984-48-8	
Sulfate	394	mg/L	25.0	100		05/19/21 04:06	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/11/21 07:55	05/12/21 12:42	7429-90-5	
Barium	61.9	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:42	7440-39-3	
Boron	4470	ug/L	100	1	05/11/21 07:55	05/12/21 12:42	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/11/21 07:55	05/12/21 12:42	7440-43-9	
Calcium	192000	ug/L	1000	1	05/11/21 07:55	05/12/21 12:42	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:42	7440-47-3	
Iron	3770	ug/L	100	1	05/11/21 07:55	05/12/21 12:42	7439-89-6	
Lead	ND	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:42	7439-92-1	
Lithium	39.9	ug/L	20.0	1	05/11/21 07:55	05/12/21 12:42	7439-93-2	
Magnesium	52700	ug/L	1000	1	05/11/21 07:55	05/12/21 12:42	7439-95-4	
Manganese	497	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:42	7439-96-5	
Molybdenum	26.0	ug/L	10.0	1	05/11/21 07:55	05/12/21 12:42	7439-98-7	
Potassium	9600	ug/L	1000	1	05/11/21 07:55	05/12/21 12:42	7440-09-7	
Silica	11900	ug/L	450	1	05/11/21 07:55	05/12/21 12:42	7631-86-9	N2
Sodium	76700	ug/L	1000	1	05/11/21 07:55	05/12/21 14:05	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	518	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:34	7439-96-5	
Molybdenum, Dissolved	26.5	ug/L	10.0	1	05/11/21 07:55	05/12/21 08:34	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:25	7440-36-0	
Arsenic	3.4	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:25	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:25	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/06/21 08:26	05/07/21 00:25	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	376	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Bicarbonate (CaCO3)	376	mg/L	2.0	1		05/07/21 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/07/21 16:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1080	mg/L	20.0	1		05/07/21 09:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-104D	Lab ID: 50286597011	Collected: 05/04/21 12:50	Received: 05/05/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		05/07/21 14:18		H3
4500S2D Sulfide Water								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/06/21 14:35	18496-25-8	
Iron, Ferrous								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	1.3	mg/L	0.40	2		05/06/21 16:07		H3,N2
353.2 Nitrogen, NO2/NO3 unpres								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/06/21 08:05	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/06/21 08:05	14797-65-0	
365.1 Total Phosphorus								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/12/21 14:01	05/12/21 18:27		
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.6	mg/L	1.0	1		05/07/21 23:47	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.2	mg/L	1.0	1		05/15/21 06:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

QC Batch:	621355	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2863492 Matrix: Water
Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/18/21 16:25	
Fluoride	mg/L	ND	0.10	05/18/21 16:25	
Sulfate	mg/L	ND	0.25	05/18/21 16:25	

LABORATORY CONTROL SAMPLE: 2863493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.48	95	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863494 2863495

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	224	125	125	346	346	97	98	80-120	0	15	
Fluoride	mg/L	0.31	0.5	0.5	0.75	0.75	88	88	80-120	0	15	
Sulfate	mg/L	642	250	250	884	880	97	95	80-120	1	15	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619338	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2853635 Matrix: Water

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/12/21 11:44	
Barium	ug/L	ND	10.0	05/12/21 11:44	
Boron	ug/L	ND	100	05/12/21 11:44	
Cadmium	ug/L	ND	2.0	05/12/21 11:44	
Calcium	ug/L	ND	1000	05/12/21 11:44	
Chromium	ug/L	ND	10.0	05/12/21 11:44	
Iron	ug/L	ND	100	05/12/21 11:44	
Lead	ug/L	ND	10.0	05/12/21 11:44	
Lithium	ug/L	ND	20.0	05/12/21 11:44	
Magnesium	ug/L	ND	1000	05/12/21 11:44	
Manganese	ug/L	ND	10.0	05/12/21 11:44	
Molybdenum	ug/L	ND	10.0	05/12/21 11:44	
Potassium	ug/L	ND	1000	05/12/21 11:44	
Silica	ug/L	ND	450	05/12/21 11:44	N2
Sodium	ug/L	ND	1000	05/12/21 11:44	

LABORATORY CONTROL SAMPLE: 2853636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9550	96	80-120	
Barium	ug/L	1000	975	98	80-120	
Boron	ug/L	1000	984	98	80-120	
Cadmium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	9830	98	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Iron	ug/L	10000	9970	100	80-120	
Lead	ug/L	1000	974	97	80-120	
Lithium	ug/L	1000	998	100	80-120	
Magnesium	ug/L	10000	9770	98	80-120	
Manganese	ug/L	1000	907	91	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	
Potassium	ug/L	10000	9540	95	80-120	
Silica	ug/L	10700	10300	96	80-120	N2
Sodium	ug/L	10000	9610	96	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853637												2853638	
Parameter	Units	50286597002		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	ND	10000	10000	10100	10100	101	100	75-125	0	20		
Barium	ug/L	57.2	1000	1000	1050	1050	99	99	75-125	0	20		
Boron	ug/L	8100	1000	1000	9240	9360	113	125	75-125	1	20		
Cadmium	ug/L	ND	1000	1000	1010	1010	101	101	75-125	1	20		
Calcium	ug/L	207000	10000	10000	217000	221000	108	148	75-125	2	20	P6	
Chromium	ug/L	ND	1000	1000	1000	983	100	98	75-125	2	20		
Iron	ug/L	3150	10000	10000	12900	12900	98	98	75-125	0	20		
Lead	ug/L	ND	1000	1000	943	937	94	94	75-125	1	20		
Lithium	ug/L	65.8	1000	1000	1100	1100	104	103	75-125	0	20		
Magnesium	ug/L	55300	10000	10000	65400	66300	100	110	75-125	1	20		
Manganese	ug/L	224	1000	1000	1140	1140	91	92	75-125	0	20		
Molybdenum	ug/L	169	1000	1000	1200	1200	103	103	75-125	0	20		
Potassium	ug/L	10900	10000	10000	21100	21300	102	104	75-125	1	20		
Silica	ug/L	11800	10700	10700	22500	22600	100	101		1		N2	
Sodium	ug/L	152000	10000	10000	162000	163000	98	112	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch: 619370 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2853818 Matrix: Water
 Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/12/21 07:39	
Molybdenum, Dissolved	ug/L	ND	10.0	05/12/21 07:39	

LABORATORY CONTROL SAMPLE: 2853819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	947	95	80-120	
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853820 2853821

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result								
Manganese, Dissolved	ug/L	232	1000	1000	1120	1140	89	90	75-125	1	20		
Molybdenum, Dissolved	ug/L	171	1000	1000	1170	1200	100	103	75-125	2	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619141	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

METHOD BLANK:	2852749	Matrix:	Water
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/06/21 22:58	
Arsenic	ug/L	ND	1.0	05/06/21 22:58	
Cobalt	ug/L	ND	1.0	05/06/21 22:58	
Selenium	ug/L	ND	1.0	05/06/21 22:58	

LABORATORY CONTROL SAMPLE: 2852750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.9	100	80-120	
Arsenic	ug/L	40	39.9	100	80-120	
Cobalt	ug/L	40	41.5	104	80-120	
Selenium	ug/L	40	36.8	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852751 2852752

Parameter	Units	50286597002		2852751		2852752		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Antimony	ug/L	ND	40	40	39.0	39.9	97	100	75-125	2	20		
Arsenic	ug/L	62.1	40	40	99.3	101	93	98	75-125	2	20		
Cobalt	ug/L	ND	40	40	37.7	38.3	94	95	75-125	2	20		
Selenium	ug/L	ND	40	40	39.9	40.2	100	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619484	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

METHOD BLANK:	2854518	Matrix:	Water
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/07/21 16:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/07/21 16:26	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/07/21 16:26	

LABORATORY CONTROL SAMPLE: 2854519						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.2	98	90-110	

SAMPLE DUPLICATE: 2854520						
Parameter	Units	50286597002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	214	218	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	214	218	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2854521						
Parameter	Units	50286597003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	214	218	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	214	218	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch: 619422

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2854197

Matrix: Water

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/07/21 09:10	

LABORATORY CONTROL SAMPLE: 2854198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	268	89	80-120	

SAMPLE DUPLICATE: 2854199

Parameter	Units	50286574001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	405	400	1	10	

SAMPLE DUPLICATE: 2854200

Parameter	Units	50286597002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1340	1370	2	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619505	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

SAMPLE DUPLICATE: 2854585

Parameter	Units	50286597002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

SAMPLE DUPLICATE: 2854586

Parameter	Units	50286678001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619220	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

METHOD BLANK:	2852961	Matrix:	Water
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/06/21 14:35	

LABORATORY CONTROL SAMPLE: 2852962						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852963												2852964	
Parameter	Units	50286564008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.40	0.41	80	82	90-110	2	20	M3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852965												2852966	
Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.48	0.47	96	95	90-110	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619291	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2853453 Matrix: Water

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/06/21 16:03	H3,N2

LABORATORY CONTROL SAMPLE: 2853454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	105	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853455 2853456

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50286597002 Result	Spike Conc.	Spike Conc.	Result							
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	105	104	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2853457

Parameter	Units	50286597008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L		2.8	5	8.0	104	90-110 H3,N2

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	619172	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

METHOD BLANK:	2852847	Matrix:	Water
Associated Lab Samples:	50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/06/21 07:33	
Nitrogen, Nitrite	mg/L	ND	0.10	05/06/21 07:33	

LABORATORY CONTROL SAMPLE:	2852848					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	106	90-110	
Nitrogen, Nitrite	mg/L	1	1.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2852849			2852850									
Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	106	108	90-110	2	20		
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	107	109	90-110	2	20		

MATRIX SPIKE SAMPLE:	2852857											
Parameter	Units	50286597004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers					
Nitrogen, Nitrate	mg/L	ND	1	1.0	100	90-110						
Nitrogen, Nitrite	mg/L	ND	1	1.0	104	90-110						

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

QC Batch: 620243 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2858182 Matrix: Water
Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/12/21 18:18	

LABORATORY CONTROL SAMPLE: 2858183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858184 2858185

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.54			2.3	2.1				10		

MATRIX SPIKE SAMPLE: 2858186

Parameter	Units	50286633005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	<0.15		1.5			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

QC Batch: 619451 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002

METHOD BLANK: 2854354 Matrix: Water

Associated Lab Samples: 50286597001, 50286597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/11/21 11:37	

LABORATORY CONTROL SAMPLE: 2854355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854356 2854357

Parameter	Units	50286597002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	10	10	11.7	11.6	103	102	80-120	1	20	

MATRIX SPIKE SAMPLE: 2854358

Parameter	Units	50286477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.0	10	14.6	107	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

QC Batch: 619453 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2854367 Matrix: Water
Associated Lab Samples: 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/07/21 13:50	

LABORATORY CONTROL SAMPLE: 2854368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854369 2854370

Parameter	Units	50286564008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.8	10	10	11.6	11.6	98	97	80-120	1	20	

MATRIX SPIKE SAMPLE: 2854371

Parameter	Units	50286597008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L		5.5	10	15.3	97	80-120

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50286597

QC Batch: 620839 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005

METHOD BLANK: 2861464 Matrix: Water
Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/14/21 18:06	

LABORATORY CONTROL SAMPLE: 2861465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861466 2861467

Parameter	Units	50286564008		2861467		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	0.62J	10	10	10.1	10.1	95	95	80-120	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861468 2861469

Parameter	Units	50286597002		2861469		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.8	94	94	80-120	1	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	620840	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

METHOD BLANK: 2861475 Matrix: Water
Associated Lab Samples: 50286597007, 50286597008, 50286597009, 50286597010, 50286597011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/15/21 04:14	

LABORATORY CONTROL SAMPLE: 2861476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861477 2861478

Parameter	Units	2861477		2861478		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286675004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dissolved Organic Carbon	mg/L	2.6	10	10	12.1	12.1	95	95	80-120	0	20

MATRIX SPIKE SAMPLE: 2861479

Parameter	Units	50286678003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	0.26J	10	9.4	92	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100S **Lab ID: 50286597001** Collected: 05/04/21 09:09 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0650 ± 0.459 (0.916) C:NA T:97%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.868 ± 0.465 (0.839) C:75% T:92%	pCi/L	06/03/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.933 ± 0.924 (1.76)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100D **Lab ID: 50286597002** Collected: 05/04/21 11:29 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.514 ± 0.443 (0.659) C:NA T:100%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.36 ± 0.460 (0.619) C:83% T:85%	pCi/L	06/07/21 11:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.87 ± 0.903 (1.28)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101S **Lab ID: 50286597003** Collected: 05/04/21 09:59 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.349 ± 0.456 (0.752) C:NA T:96%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.307 ± 0.424 (0.910) C:73% T:89%	pCi/L	06/03/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.656 ± 0.880 (1.66)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-101D **Lab ID: 50286597004** Collected: 05/04/21 13:28 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.665 ± 0.527 (0.716) C:NA T:99%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.438 ± 0.428 (0.883) C:71% T:89%	pCi/L	06/03/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.955 (1.60)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: DUP 3 **Lab ID: 50286597005** Collected: 05/04/21 12:00 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.768 ± 0.633 (0.915) C:NA T:96%	pCi/L	06/04/21 13:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0103 ± 0.434 (1.000) C:69% T:89%	pCi/L	06/03/21 13:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.778 ± 1.07 (1.92)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 2 Lab ID: 50286597006 Collected: 05/04/21 12:30 Received: 05/05/21 15:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.298 (0.669) C:NA T:95%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.300 ± 0.470 (1.02) C:71% T:85%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.300 ± 0.768 (1.69)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-102D **Lab ID: 50286597007** Collected: 05/04/21 13:50 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.204 ± 0.401 (0.732) C:NA T:96%	pCi/L	06/04/21 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.713 ± 0.411 (0.740) C:76% T:80%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.917 ± 0.812 (1.47)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103S **Lab ID: 50286597008** Collected: 05/04/21 12:15 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.191 ± 0.451 (0.836) C:NA T:99%	pCi/L	06/04/21 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.366 ± 0.363 (0.744) C:72% T:88%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.557 ± 0.814 (1.58)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103I **Lab ID: 50286597009** Collected: 05/04/21 11:00 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.67 ± 0.771 (0.749) C:NA T:100%	pCi/L	06/04/21 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.998 ± 0.467 (0.771) C:73% T:82%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.67 ± 1.24 (1.52)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-103D **Lab ID: 50286597010** Collected: 05/04/21 09:10 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.913 ± 0.696 (0.990) C:NA T:97%	pCi/L	06/04/21 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.108 ± 0.372 (0.840) C:70% T:87%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.02 ± 1.07 (1.83)	pCi/L	06/08/21 16:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: MW-104D **Lab ID: 50286597011** Collected: 05/04/21 12:50 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.46 ± 0.674 (0.511) C:NA T:94%	pCi/L	06/04/21 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.721 ± 0.439 (0.812) C:69% T:89%	pCi/L	06/03/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.18 ± 1.11 (1.32)	pCi/L	06/08/21 16:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100D Rad MS **Lab ID: 50286597012** Collected: 05/04/21 11:29 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	94.48 %REC ± NA (NA) C:NA T:NA	pCi/L	06/04/21 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	85.20 %REC ± NA (NA) C:NA T:NA	pCi/L	06/07/21 11:02	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Sample: PZ-100D Rad MSD **Lab ID: 50286597013** Collected: 05/04/21 11:29 Received: 05/05/21 15:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	85.61 %REC 9.85 RPD ± NA (NA) C:NA T:NA	pCi/L	06/04/21 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	90.84 %REC 6.41 RPD ± NA (NA) C:NA T:NA	pCi/L	06/07/21 11:02	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch: 449086

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011, 50286597012, 50286597013

METHOD BLANK: 2167357

Matrix: Water

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011, 50286597012, 50286597013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.155 ± 0.305 (0.557) C:NA T:100%	pCi/L	06/04/21 13:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

QC Batch:	449087	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011, 50286597012, 50286597013

METHOD BLANK:	2167361	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 50286597001, 50286597002, 50286597003, 50286597004, 50286597005, 50286597006, 50286597007, 50286597008, 50286597009, 50286597010, 50286597011, 50286597012, 50286597013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.246 ± 0.313 (0.788) C:73% T:88%	pCi/L	06/03/21 13:57	

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QUALIFIERS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286597001	PZ-100S	EPA 9056	621355		
50286597002	PZ-100D	EPA 9056	621355		
50286597003	PZ-101S	EPA 9056	621355		
50286597004	PZ-101D	EPA 9056	621355		
50286597005	DUP 3	EPA 9056	621355		
50286597006	Field Blank 2	EPA 9056	621355		
50286597007	MW-102D	EPA 9056	621355		
50286597008	MW-103S	EPA 9056	621355		
50286597009	MW-103I	EPA 9056	621355		
50286597010	MW-103D	EPA 9056	621355		
50286597011	MW-104D	EPA 9056	621355		
50286597001	PZ-100S	EPA 3010	619338	EPA 6010	620272
50286597002	PZ-100D	EPA 3010	619338	EPA 6010	620272
50286597003	PZ-101S	EPA 3010	619338	EPA 6010	620272
50286597004	PZ-101D	EPA 3010	619338	EPA 6010	620272
50286597005	DUP 3	EPA 3010	619338	EPA 6010	620272
50286597006	Field Blank 2	EPA 3010	619338	EPA 6010	620272
50286597007	MW-102D	EPA 3010	619338	EPA 6010	620272
50286597008	MW-103S	EPA 3010	619338	EPA 6010	620272
50286597009	MW-103I	EPA 3010	619338	EPA 6010	620272
50286597010	MW-103D	EPA 3010	619338	EPA 6010	620272
50286597011	MW-104D	EPA 3010	619338	EPA 6010	620272
50286597001	PZ-100S	EPA 3010	619370	EPA 6010	620196
50286597002	PZ-100D	EPA 3010	619370	EPA 6010	620196
50286597003	PZ-101S	EPA 3010	619370	EPA 6010	620196
50286597004	PZ-101D	EPA 3010	619370	EPA 6010	620196
50286597005	DUP 3	EPA 3010	619370	EPA 6010	620196
50286597007	MW-102D	EPA 3010	619370	EPA 6010	620196
50286597008	MW-103S	EPA 3010	619370	EPA 6010	620196
50286597009	MW-103I	EPA 3010	619370	EPA 6010	620196
50286597010	MW-103D	EPA 3010	619370	EPA 6010	620196
50286597011	MW-104D	EPA 3010	619370	EPA 6010	620196
50286597001	PZ-100S	EPA 200.2	619141	EPA 6020	619285
50286597002	PZ-100D	EPA 200.2	619141	EPA 6020	619285
50286597003	PZ-101S	EPA 200.2	619141	EPA 6020	619285
50286597004	PZ-101D	EPA 200.2	619141	EPA 6020	619285
50286597005	DUP 3	EPA 200.2	619141	EPA 6020	619285
50286597006	Field Blank 2	EPA 200.2	619141	EPA 6020	619285
50286597007	MW-102D	EPA 200.2	619141	EPA 6020	619285
50286597008	MW-103S	EPA 200.2	619141	EPA 6020	619285
50286597009	MW-103I	EPA 200.2	619141	EPA 6020	619285
50286597010	MW-103D	EPA 200.2	619141	EPA 6020	619285
50286597011	MW-104D	EPA 200.2	619141	EPA 6020	619285
50286597001	PZ-100S	EPA 903.1	449086		
50286597002	PZ-100D	EPA 903.1	449086		
50286597003	PZ-101S	EPA 903.1	449086		
50286597004	PZ-101D	EPA 903.1	449086		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286597005	DUP 3	EPA 903.1	449086		
50286597006	Field Blank 2	EPA 903.1	449086		
50286597007	MW-102D	EPA 903.1	449086		
50286597008	MW-103S	EPA 903.1	449086		
50286597009	MW-103I	EPA 903.1	449086		
50286597010	MW-103D	EPA 903.1	449086		
50286597011	MW-104D	EPA 903.1	449086		
50286597012	PZ-100D Rad MS	EPA 903.1	449086		
50286597013	PZ-100D Rad MSD	EPA 903.1	449086		
50286597001	PZ-100S	EPA 904.0	449087		
50286597002	PZ-100D	EPA 904.0	449087		
50286597003	PZ-101S	EPA 904.0	449087		
50286597004	PZ-101D	EPA 904.0	449087		
50286597005	DUP 3	EPA 904.0	449087		
50286597006	Field Blank 2	EPA 904.0	449087		
50286597007	MW-102D	EPA 904.0	449087		
50286597008	MW-103S	EPA 904.0	449087		
50286597009	MW-103I	EPA 904.0	449087		
50286597010	MW-103D	EPA 904.0	449087		
50286597011	MW-104D	EPA 904.0	449087		
50286597012	PZ-100D Rad MS	EPA 904.0	449087		
50286597013	PZ-100D Rad MSD	EPA 904.0	449087		
50286597001	PZ-100S	Total Radium Calculation	451515		
50286597002	PZ-100D	Total Radium Calculation	451515		
50286597003	PZ-101S	Total Radium Calculation	451515		
50286597004	PZ-101D	Total Radium Calculation	451515		
50286597005	DUP 3	Total Radium Calculation	451515		
50286597006	Field Blank 2	Total Radium Calculation	451515		
50286597007	MW-102D	Total Radium Calculation	451515		
50286597008	MW-103S	Total Radium Calculation	451515		
50286597009	MW-103I	Total Radium Calculation	451515		
50286597010	MW-103D	Total Radium Calculation	451515		
50286597011	MW-104D	Total Radium Calculation	451515		
50286597001	PZ-100S	SM 2320B	619484		
50286597002	PZ-100D	SM 2320B	619484		
50286597003	PZ-101S	SM 2320B	619484		
50286597004	PZ-101D	SM 2320B	619484		
50286597005	DUP 3	SM 2320B	619484		
50286597006	Field Blank 2	SM 2320B	619484		
50286597007	MW-102D	SM 2320B	619484		
50286597008	MW-103S	SM 2320B	619484		
50286597009	MW-103I	SM 2320B	619484		
50286597010	MW-103D	SM 2320B	619484		
50286597011	MW-104D	SM 2320B	619484		
50286597001	PZ-100S	SM 2540C	619422		
50286597002	PZ-100D	SM 2540C	619422		
50286597003	PZ-101S	SM 2540C	619422		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286597004	PZ-101D	SM 2540C	619422		
50286597005	DUP 3	SM 2540C	619422		
50286597006	Field Blank 2	SM 2540C	619422		
50286597007	MW-102D	SM 2540C	619422		
50286597008	MW-103S	SM 2540C	619422		
50286597009	MW-103I	SM 2540C	619422		
50286597010	MW-103D	SM 2540C	619422		
50286597011	MW-104D	SM 2540C	619422		
50286597001	PZ-100S	SM 4500-H+B	619505		
50286597002	PZ-100D	SM 4500-H+B	619505		
50286597003	PZ-101S	SM 4500-H+B	619505		
50286597004	PZ-101D	SM 4500-H+B	619505		
50286597005	DUP 3	SM 4500-H+B	619505		
50286597006	Field Blank 2	SM 4500-H+B	619505		
50286597007	MW-102D	SM 4500-H+B	619505		
50286597008	MW-103S	SM 4500-H+B	619505		
50286597009	MW-103I	SM 4500-H+B	619505		
50286597010	MW-103D	SM 4500-H+B	619505		
50286597011	MW-104D	SM 4500-H+B	619505		
50286597001	PZ-100S	SM 4500-S2-D	619220		
50286597002	PZ-100D	SM 4500-S2-D	619220		
50286597003	PZ-101S	SM 4500-S2-D	619220		
50286597004	PZ-101D	SM 4500-S2-D	619220		
50286597005	DUP 3	SM 4500-S2-D	619220		
50286597006	Field Blank 2	SM 4500-S2-D	619220		
50286597007	MW-102D	SM 4500-S2-D	619220		
50286597008	MW-103S	SM 4500-S2-D	619220		
50286597009	MW-103I	SM 4500-S2-D	619220		
50286597010	MW-103D	SM 4500-S2-D	619220		
50286597011	MW-104D	SM 4500-S2-D	619220		
50286597001	PZ-100S	HACH 8146	619291		
50286597002	PZ-100D	HACH 8146	619291		
50286597003	PZ-101S	HACH 8146	619291		
50286597004	PZ-101D	HACH 8146	619291		
50286597005	DUP 3	HACH 8146	619291		
50286597006	Field Blank 2	HACH 8146	619291		
50286597007	MW-102D	HACH 8146	619291		
50286597008	MW-103S	HACH 8146	619291		
50286597009	MW-103I	HACH 8146	619291		
50286597010	MW-103D	HACH 8146	619291		
50286597011	MW-104D	HACH 8146	619291		
50286597001	PZ-100S	EPA 353.2	619172		
50286597002	PZ-100D	EPA 353.2	619172		
50286597003	PZ-101S	EPA 353.2	619172		
50286597004	PZ-101D	EPA 353.2	619172		
50286597005	DUP 3	EPA 353.2	619172		
50286597006	Field Blank 2	EPA 353.2	619172		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50286597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286597007	MW-102D	EPA 353.2	619172		
50286597008	MW-103S	EPA 353.2	619172		
50286597009	MW-103I	EPA 353.2	619172		
50286597010	MW-103D	EPA 353.2	619172		
50286597011	MW-104D	EPA 353.2	619172		
50286597001	PZ-100S	EPA 365.1	620243	EPA 365.1	620396
50286597002	PZ-100D	EPA 365.1	620243	EPA 365.1	620396
50286597003	PZ-101S	EPA 365.1	620243	EPA 365.1	620396
50286597004	PZ-101D	EPA 365.1	620243	EPA 365.1	620396
50286597005	DUP 3	EPA 365.1	620243	EPA 365.1	620396
50286597006	Field Blank 2	EPA 365.1	620243	EPA 365.1	620396
50286597007	MW-102D	EPA 365.1	620243	EPA 365.1	620396
50286597008	MW-103S	EPA 365.1	620243	EPA 365.1	620396
50286597009	MW-103I	EPA 365.1	620243	EPA 365.1	620396
50286597010	MW-103D	EPA 365.1	620243	EPA 365.1	620396
50286597011	MW-104D	EPA 365.1	620243	EPA 365.1	620396
50286597001	PZ-100S	SM 5310C	619451		
50286597002	PZ-100D	SM 5310C	619451		
50286597003	PZ-101S	SM 5310C	619453		
50286597004	PZ-101D	SM 5310C	619453		
50286597005	DUP 3	SM 5310C	619453		
50286597006	Field Blank 2	SM 5310C	619453		
50286597007	MW-102D	SM 5310C	619453		
50286597008	MW-103S	SM 5310C	619453		
50286597009	MW-103I	SM 5310C	619453		
50286597010	MW-103D	SM 5310C	619453		
50286597011	MW-104D	SM 5310C	619453		
50286597001	PZ-100S	SM 5310C	620839		
50286597002	PZ-100D	SM 5310C	620839		
50286597003	PZ-101S	SM 5310C	620839		
50286597004	PZ-101D	SM 5310C	620839		
50286597005	DUP 3	SM 5310C	620839		
50286597007	MW-102D	SM 5310C	620840		
50286597008	MW-103S	SM 5310C	620840		
50286597009	MW-103I	SM 5310C	620840		
50286597010	MW-103D	SM 5310C	620840		
50286597011	MW-104D	SM 5310C	620840		

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WO# : 50286597



50286597

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:		Required Project Information:		Section C Invoice Information:		Page: 1 Of 2
Company: ATC Group Services		Report To: Mark Breting		Attention:		Regulatory Agency
Address: 7988 Centerpoint Drive		Copy To:		Company Name:		
Indianapolis, IN 46256		Purchase Order #:		Address:		State / Location
Email: mark.breting@atcassociates.com		Project Name: Harding Street Profile 1 Report 2		Pace Quote:		
Phone: NONE Fax:		Project #:		Pace Project Manager: Hayden Putt		IN
Requested Due Date:		Project #:		Pace Profile #: 6246 / Line 25		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
					DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other	TDS	(Cl, F, SO4) IC		Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2						
1	M-1	WT							11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
2	PZ-100S	WT					5/4/21	909	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
3	PZ-100D	WT						1129	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
4	PZ-101S	WT						959	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
5	PZ-101D	WT						1328	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
6	DUP 3	WT						1200	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
7	Field Blank 2	WT						1230	9	3	2	3		1										X	X	X		X	X	X							
8	MS3	WT						1129	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
9	MSD3	WT						1129	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
10																																					
11	MW-102S	WT							11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	
12	MW-102D	WT						5/4/21 1350	11	3	3	4		1										X	X	X	X	X	X	X	X	X	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Colton Palmer / ATC	5/4/21		Mark Breting / ATC	5/5/21	0600	
6020 (Co, As, Se, Sb)	Mark Breting	5/5/21	1340	[Signature] / POC	5/5/21	1340	(Gel Seal) SC08
** Dissolved FF 6010 (Mo, Mn)	[Signature]	5/5/21	1510	Daniel Pearson / Pace	5/5/21	1510	
Alkalinity = (Total, Bicarb & Carb)							

SAMPLER NAME AND SIGNATURE		TEMP in C
PRINT Name of SAMPLER:	Colton Palmer	
SIGNATURE of SAMPLER:	[Signature]	
DATE Signed:		5/4/21



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Report To: Mark Breting		Section C Attention:		Page: 2 Of 2	
Company: ATC Group Services		Report To: Mark Breting		Attention:		Regulatory Agency:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:		State / Location:	
Indianapolis, IN 46256		Purchase Order #:		Address:		IN	
Email: mark.breting@atcassociates.com		Project Name: Harding Street Profile 1 Report 2		Pace Quote:			
Phone: NONE Fax:		Project #: 6246 / Line 25		Pace Project Manager: Hayden Putt			
Requested Due Date:		Project #:		Pace Profile #:			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)				
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other		TDS	(Cl, F, SO4) IC	Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2							
				DATE	TIME	DATE	TIME																														
13	MW-103S	WT			5/4/21	1215		11	3	3	4			1																							006
14	MW-103I	WT				1100		11	3	3	4			1																						009	
15	MW-103D	WT				910		11	3	3	4			1																						010	
16	MW-104S	WT						11	3	3	4			1																							
17	MW-104D	WT			5/4/21	1250		11	3	3	4			1																							011
18																																					
19																																					
20																																					
21																																					
22																																					
23																																					
24																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Colleen RA (max) (see page 1) MB	5/4/21		Mark Breting / ATC	5/5/21	06:00	
6020 (Co, As, Se, Sb)	Mark Breting / ATC	5/5/21	1340	Kevin Van Pace	5/5/21	1340	CEL
** Dissolved FF 6010 (Mo, Mn)	Kevin Van Pace	5/5/21	1510	David Pearson / Pace	5/5/21	1510	SWP

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	DATE Signed:
TEMP in C	Received on Ice (Y/N)
	Custody Sealed Cooler (Y/N)
	Samples Contact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 5/5/21 15:47

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No (6/6)
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 ABCDEF
- 4. Cooler Temperature: see comments
 Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags (6/6)
 None Other _____
- 6. Ice Type: Wet Blue None (6/6)
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate 353.2	/		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab Time: 18:30			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		/	Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			/

COMMENTS: [cooler 1 (1.4/1.4); Y, N, Y], [cooler 2 (1.0/1.0) Y, N, Y], [cooler 3 (3.5/3.5) Y, N, Y], [cooler 5 (5.1/5.1) Y, N, Y], [cooler 4 (2.4/2.4) Y, N, Y], [cooler 6 (1.8/1.8) Y, N, Y] BP1N, BP3U, BP3Z packaged with MW-103I with a sample ID of "EXTRA 2" matching date + time for MW-103I. DMP 5/5/21

Sample Container Count

Normal Field Filtered

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10	
																																1
2													2			2	1	2	1	1	1		1					WT	✓	✓		
3													6			6	3	6	3	3	3		3				MS/MSD	✓	✓			
4													2			2	1	2	1	1	1		1				✓	✓				
5													↓			↓	↓	↓	↓	↓	↓		↓				✓	✓				
6													↓			↓	↓	↓	↓	↓	↓		↓				✓	✓				
7													1			2	1	2	1		1		1				✓	✓				
8																											↘	DMP 5/5/21				
9																																
10																																
11																																
12													2			2	1	2	1	1	1		1				WT	✓	✓			

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

Sample Container Count

Sample Line Item	WGFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H					Matrix	pH <2	pH >9	pH >10		
1												2				2	1	2	1	1	1		1						WT	✓	✓		
2												↓				↓	↓	↓	↓	↓	↓		↓						↓	✓	✓		
3												↓				↓	↓	↓	↓	↓	↓		↓						↓	✓	✓		
4																																	
5												2				2	1	2	1	1	1		1							WT	✓	✓	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Normal
FP

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

July 27, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50286756

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Florida: Cert E871149 SEKS WET

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50286756001	MW-1S	Water	05/05/21 10:54	05/06/21 16:05
50286756002	MW-1D	Water	05/05/21 11:57	05/06/21 16:05
50286756003	MW-6S	Water	05/05/21 13:50	05/06/21 16:05
50286756004	MW-8S	Water	05/05/21 09:28	05/06/21 16:05
50286756005	MW-11D	Water	05/05/21 12:20	05/06/21 16:05
50286756006	MW-11S	Water	05/05/21 10:15	05/06/21 16:05
50286756007	MW-14D	Water	05/05/21 14:55	05/06/21 16:05
50286756008	MW-11D Rad MS	Water	05/05/21 12:20	05/06/21 16:05
50286756009	MW-11D Rad MSD	Water	05/05/21 12:20	05/06/21 16:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50286756001	MW-1S	EPA 9056	RMR	3	PASI-I		
		EPA 6010	JPK	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	DMT	6	PASI-I		
		EPA 7470	LBT	1	PASI-I		
		EPA 903.1	SLC	1	PASI-PA		
		EPA 904.0	JC2	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	WZE	1	PASI-I		
		SM 4500-H+B	WDB	1	PASI-I		
		SM 4500-S2-D	ZM	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SLB	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50286756002	MW-1D	EPA 9056	RMR	3	PASI-I
				EPA 6010	JPK	15	PASI-I
EPA 6010	JPK			2	PASI-I		
EPA 6020	DMT			6	PASI-I		
EPA 7470	LBT			1	PASI-I		
EPA 903.1	SLC			1	PASI-PA		
EPA 904.0	JC2			1	PASI-PA		
Total Radium Calculation	RMK			1	PASI-PA		
SM 2320B	HCF			3	PASI-I		
SM 2540C	WZE			1	PASI-I		
SM 4500-H+B	WDB			1	PASI-I		
SM 4500-S2-D	ZM			1	PASI-I		
HACH 8146	SWJ			1	PASI-I		
EPA 353.2	SLB			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50286756003	MW-6S			EPA 9056	RMR	3	PASI-I
				EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I		

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286756004	MW-8S	EPA 6020	DMT	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	ZM	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SLB	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	ZM	1	PASI-I
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SLB	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286756005	MW-11D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	18	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286756006	MW-11S	EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	ZM	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SLB	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
SM 2540C	WZE	1	PASI-I		
SM 4500-H+B	WDB	1	PASI-I		
SM 4500-S2-D	ZM	1	PASI-I		
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SLB	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286756007	MW-14D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	ZM	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SLB	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50286756008	MW-11D Rad MS	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
50286756009	MW-11D Rad MSD	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286756001	MW-1S					
EPA 9056	Chloride	309	mg/L	50.0	05/22/21 13:36	
EPA 9056	Fluoride	0.24	mg/L	0.10	05/21/21 12:30	
EPA 9056	Sulfate	69.5	mg/L	5.0	05/21/21 12:46	
EPA 6010	Barium	125	ug/L	10.0	05/14/21 23:33	
EPA 6010	Boron	199	ug/L	100	05/14/21 23:33	
EPA 6010	Calcium	111000	ug/L	1000	05/14/21 23:33	
EPA 6010	Iron	12100	ug/L	100	05/14/21 23:33	
EPA 6010	Magnesium	26600	ug/L	1000	05/14/21 23:33	
EPA 6010	Manganese	345	ug/L	10.0	05/14/21 23:33	
EPA 6010	Molybdenum	24.8	ug/L	10.0	05/14/21 23:33	
EPA 6010	Potassium	5940	ug/L	1000	05/14/21 23:33	
EPA 6010	Silica	12600	ug/L	450	05/14/21 23:33	N2
EPA 6010	Sodium	116000	ug/L	1000	05/14/21 23:33	
EPA 6010	Manganese, Dissolved	320	ug/L	10.0	05/14/21 03:07	
EPA 6010	Molybdenum, Dissolved	24.7	ug/L	10.0	05/14/21 03:07	
EPA 6020	Antimony	2.8	ug/L	1.0	05/13/21 09:52	
EPA 6020	Arsenic	24.6	ug/L	1.0	05/13/21 09:52	
EPA 903.1	Radium-226	1.56 ± 0.877	pCi/L		06/11/21 12:26	
		(1.08) C:NA				
		T:92%				
EPA 904.0	Radium-228	1.98 ± 0.593	pCi/L		06/10/21 11:17	
		(0.742)				
		C:69%				
		T:89%				
Total Radium Calculation	Total Radium	3.54 ± 1.47	pCi/L		06/14/21 09:02	
		(1.82)				
SM 2320B	Alkalinity, Total as CaCO3	235	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	235	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	688	mg/L	20.0	05/10/21 11:52	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/10/21 15:03	H3
EPA 365.1	Phosphate as P04	5.9	mg/L	0.30	05/14/21 11:35	
SM 5310C	Total Organic Carbon	2.2	mg/L	1.0	05/08/21 06:58	
50286756002	MW-1D					
EPA 9056	Chloride	186	mg/L	5.0	05/21/21 13:19	
EPA 9056	Fluoride	0.23	mg/L	0.10	05/21/21 13:03	
EPA 9056	Sulfate	71.6	mg/L	5.0	05/21/21 13:19	
EPA 6010	Barium	77.5	ug/L	10.0	05/14/21 23:35	
EPA 6010	Boron	434	ug/L	100	05/14/21 23:35	
EPA 6010	Calcium	102000	ug/L	1000	05/14/21 23:35	
EPA 6010	Iron	3110	ug/L	100	05/14/21 23:35	
EPA 6010	Lithium	23.6	ug/L	20.0	05/14/21 23:35	
EPA 6010	Magnesium	22200	ug/L	1000	05/14/21 23:35	
EPA 6010	Manganese	254	ug/L	10.0	05/14/21 23:35	
EPA 6010	Molybdenum	39.8	ug/L	10.0	05/14/21 23:35	
EPA 6010	Potassium	5920	ug/L	1000	05/14/21 23:35	
EPA 6010	Silica	14600	ug/L	450	05/14/21 23:35	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286756002	MW-1D					
EPA 6010	Sodium	86400	ug/L	1000	05/14/21 23:35	
EPA 6010	Manganese, Dissolved	240	ug/L	10.0	05/14/21 03:09	
EPA 6010	Molybdenum, Dissolved	40.7	ug/L	10.0	05/14/21 03:09	
EPA 6020	Arsenic	5.9	ug/L	1.0	05/13/21 09:57	
EPA 903.1	Radium-226	0.753 ± 0.767 (1.17) C:NA	pCi/L		06/11/21 12:26	
EPA 904.0	Radium-228	T:88% 1.24 ± 0.511 (0.824) C:63% T:90%	pCi/L		06/10/21 11:18	
Total Radium Calculation	Total Radium	1.99 ± 1.28 (1.99)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	231	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	231	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	625	mg/L	10.0	05/10/21 11:52	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/10/21 15:15	H3
HACH 8146	Iron, Ferrous	0.29	mg/L	0.20	05/14/21 10:04	H3, N2
EPA 365.1	Phosphate as P04	0.44	mg/L	0.15	05/14/21 10:26	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	05/08/21 07:18	
50286756003	MW-6S					
EPA 9056	Chloride	240	mg/L	50.0	05/22/21 13:51	
EPA 9056	Fluoride	1.3	mg/L	0.10	05/21/21 13:35	
EPA 9056	Sulfate	466	mg/L	5.0	05/21/21 13:52	
EPA 6010	Barium	113	ug/L	10.0	05/14/21 23:37	
EPA 6010	Boron	7470	ug/L	100	05/14/21 23:37	
EPA 6010	Calcium	224000	ug/L	2000	05/15/21 00:02	
EPA 6010	Iron	6430	ug/L	100	05/14/21 23:37	
EPA 6010	Lithium	62.6	ug/L	20.0	05/14/21 23:37	
EPA 6010	Magnesium	61200	ug/L	1000	05/14/21 23:37	
EPA 6010	Manganese	1800	ug/L	10.0	05/14/21 23:37	
EPA 6010	Molybdenum	216	ug/L	10.0	05/14/21 23:37	
EPA 6010	Potassium	10700	ug/L	1000	05/14/21 23:37	
EPA 6010	Silica	13400	ug/L	450	05/14/21 23:37	N2
EPA 6010	Sodium	165000	ug/L	1000	05/14/21 23:37	
EPA 6010	Manganese, Dissolved	1730	ug/L	10.0	05/14/21 03:11	
EPA 6010	Molybdenum, Dissolved	213	ug/L	10.0	05/14/21 03:11	
EPA 6020	Arsenic	11.9	ug/L	1.0	05/13/21 10:01	
EPA 6020	Cobalt	1.8	ug/L	1.0	05/13/21 10:01	
EPA 6020	Selenium	3.9	ug/L	1.0	05/13/21 10:01	
EPA 903.1	Radium-226	0.0882 ± 0.494 (0.948) C:NA T:84%	pCi/L		06/11/21 12:26	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286756003	MW-6S					
EPA 904.0	Radium-228	0.672 ± 0.403 (0.754) C:70% T:91%	pCi/L		06/10/21 11:18	
Total Radium Calculation	Total Radium	0.760 ± 0.897 (1.70)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	389	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	389	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	1390	mg/L	20.0	05/10/21 11:52	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/10/21 15:33	H3
EPA 353.2	Nitrogen, Nitrate	0.22	mg/L	0.10	05/07/21 07:34	B0
EPA 365.1	Phosphate as P04	0.42	mg/L	0.15	05/14/21 10:27	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	05/08/21 07:38	
50286756004	MW-8S					
EPA 9056	Chloride	153	mg/L	5.0	05/21/21 14:24	
EPA 9056	Sulfate	512	mg/L	50.0	05/22/21 14:05	P8
EPA 6010	Barium	29.5	ug/L	10.0	05/14/21 23:40	
EPA 6010	Boron	10800	ug/L	100	05/14/21 23:40	
EPA 6010	Calcium	182000	ug/L	1000	05/14/21 23:40	
EPA 6010	Lithium	123	ug/L	20.0	05/14/21 23:40	
EPA 6010	Magnesium	74200	ug/L	1000	05/14/21 23:40	
EPA 6010	Manganese	132	ug/L	10.0	05/14/21 23:40	
EPA 6010	Molybdenum	354	ug/L	10.0	05/14/21 23:40	
EPA 6010	Potassium	18900	ug/L	1000	05/14/21 23:40	
EPA 6010	Silica	12500	ug/L	450	05/14/21 23:40	N2
EPA 6010	Sodium	133000	ug/L	1000	05/14/21 23:40	
EPA 6010	Manganese, Dissolved	94.4	ug/L	10.0	05/14/21 03:14	
EPA 6010	Molybdenum, Dissolved	336	ug/L	10.0	05/14/21 03:14	
EPA 6020	Selenium	2.1	ug/L	1.0	05/13/21 10:06	
EPA 903.1	Radium-226	0.357 ± 0.726 (1.24) C:NA T:90%	pCi/L		06/11/21 12:26	
EPA 904.0	Radium-228	0.247 ± 0.359 (0.773) C:68% T:88%	pCi/L		06/10/21 11:18	
Total Radium Calculation	Total Radium	0.604 ± 1.09 (2.01)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	328	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	328	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	1320	mg/L	20.0	05/10/21 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/10/21 14:28	H3
EPA 353.2	Nitrogen, Nitrate	0.33	mg/L	0.10	05/07/21 07:21	B0
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	05/08/21 07:58	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286756005	MW-11D					
EPA 9056	Chloride	78.3	mg/L	5.0	05/21/21 16:02	
EPA 9056	Fluoride	0.25	mg/L	0.10	05/21/21 15:13	
EPA 9056	Sulfate	547	mg/L	50.0	05/22/21 14:20	P8
EPA 6010	Aluminum	238	ug/L	200	05/14/21 23:42	
EPA 6010	Arsenic	15.5	ug/L	10.0	05/14/21 23:42	
EPA 6010	Barium	26.5	ug/L	10.0	05/14/21 23:42	
EPA 6010	Boron	10800	ug/L	100	05/14/21 23:42	
EPA 6010	Calcium	216000	ug/L	2000	05/15/21 00:04	
EPA 6010	Iron	5910	ug/L	100	05/14/21 23:42	
EPA 6010	Lithium	141	ug/L	20.0	05/14/21 23:42	
EPA 6010	Magnesium	52100	ug/L	1000	05/14/21 23:42	
EPA 6010	Manganese	45.6	ug/L	10.0	05/14/21 23:42	
EPA 6010	Potassium	3030	ug/L	1000	05/14/21 23:42	
EPA 6010	Silica	17700	ug/L	450	05/14/21 23:42	N2
EPA 6010	Sodium	74700	ug/L	1000	05/14/21 23:42	
EPA 6010	Manganese, Dissolved	32.8	ug/L	10.0	05/14/21 03:16	
EPA 6020	Arsenic	15.4	ug/L	1.0	05/13/21 10:11	
EPA 903.1	Radium-226	0.375 ± 0.386 (0.563)	pCi/L		06/11/21 12:43	
EPA 904.0	Radium-228	0.290 ± 0.365 (0.774)	pCi/L		06/10/21 11:18	
		C:NA T:87%				
		0.751 (1.34)				
		C:64% T:89%				
Total Radium Calculation	Total Radium	0.665 ± 0.751 (1.34)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	251	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	251	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	1170	mg/L	20.0	05/10/21 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/10/21 15:25	H3
50286756006	MW-11S					
EPA 9056	Chloride	25.3	mg/L	5.0	05/21/21 16:51	
EPA 9056	Fluoride	1.4	mg/L	0.10	05/21/21 16:35	
EPA 9056	Sulfate	101	mg/L	5.0	05/21/21 16:51	P8
EPA 6010	Barium	75.1	ug/L	10.0	05/14/21 23:57	
EPA 6010	Boron	530	ug/L	100	05/14/21 23:57	
EPA 6010	Calcium	49200	ug/L	1000	05/14/21 23:57	
EPA 6010	Iron	238	ug/L	100	05/14/21 23:57	
EPA 6010	Magnesium	29000	ug/L	1000	05/14/21 23:57	
EPA 6010	Manganese	11.0	ug/L	10.0	05/14/21 23:57	
EPA 6010	Molybdenum	77.6	ug/L	10.0	05/14/21 23:57	
EPA 6010	Potassium	2000	ug/L	1000	05/14/21 23:57	
EPA 6010	Silica	14200	ug/L	450	05/14/21 23:57	N2
EPA 6010	Sodium	20000	ug/L	1000	05/14/21 23:57	
EPA 6010	Manganese, Dissolved	22.8	ug/L	10.0	05/14/21 03:31	
EPA 6010	Molybdenum, Dissolved	75.5	ug/L	10.0	05/14/21 03:31	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286756006	MW-11S					
EPA 6020	Arsenic	2.4	ug/L	1.0	05/13/21 10:43	
EPA 903.1	Radium-226	0.704 ± 0.782 (1.21) C:NA T:85%	pCi/L		06/11/21 12:43	
EPA 904.0	Radium-228	0.744 ± 0.411 (0.746) C:67% T:89%	pCi/L		06/10/21 11:18	
Total Radium Calculation	Total Radium	1.45 ± 1.19 (1.96)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	195	mg/L	2.0	05/10/21 12:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	195	mg/L	2.0	05/10/21 12:47	
SM 2540C	Total Dissolved Solids	390	mg/L	10.0	05/10/21 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/10/21 14:47	H3
EPA 353.2	Nitrogen, Nitrate	0.15	mg/L	0.10	05/07/21 07:23	B0
50286756007	MW-14D					
EPA 9056	Chloride	414	mg/L	50.0	05/25/21 16:33	
EPA 9056	Sulfate	2330	mg/L	50.0	05/25/21 16:33	P8
EPA 6010	Aluminum	981	ug/L	200	05/14/21 23:59	
EPA 6010	Barium	71.1	ug/L	10.0	05/14/21 23:59	
EPA 6010	Boron	48700	ug/L	100	05/14/21 23:59	
EPA 6010	Calcium	509000	ug/L	5000	05/15/21 00:10	
EPA 6010	Iron	4410	ug/L	100	05/14/21 23:59	
EPA 6010	Lithium	809	ug/L	20.0	05/14/21 23:59	
EPA 6010	Magnesium	197000	ug/L	1000	05/14/21 23:59	
EPA 6010	Manganese	422	ug/L	10.0	05/14/21 23:59	
EPA 6010	Molybdenum	218	ug/L	10.0	05/14/21 23:59	
EPA 6010	Potassium	55800	ug/L	1000	05/14/21 23:59	
EPA 6010	Silica	14700	ug/L	450	05/14/21 23:59	N2
EPA 6010	Sodium	396000	ug/L	5000	05/15/21 00:10	
EPA 6010	Manganese, Dissolved	370	ug/L	10.0	05/14/21 03:34	
EPA 6010	Molybdenum, Dissolved	214	ug/L	10.0	05/14/21 03:34	
EPA 6020	Arsenic	133	ug/L	1.0	05/13/21 10:57	
EPA 6020	Cobalt	1.2	ug/L	1.0	05/13/21 10:57	
EPA 903.1	Radium-226	0.533 ± 0.604 (0.939) C:NA T:102%	pCi/L		06/11/21 12:43	
EPA 904.0	Radium-228	1.54 ± 0.612 (0.989) C:63% T:85%	pCi/L		06/10/21 11:18	
Total Radium Calculation	Total Radium	2.07 ± 1.22 (1.93)	pCi/L		06/14/21 09:02	
SM 2320B	Alkalinity, Total as CaCO3	164	mg/L	2.0	05/11/21 20:34	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	164	mg/L	2.0	05/11/21 20:34	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286756007	MW-14D					
SM 2540C	Total Dissolved Solids	3890	mg/L	40.0	05/10/21 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/10/21 15:41	H3
EPA 365.1	Phosphate as P04	0.70	mg/L	0.15	05/14/21 10:29	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	05/08/21 09:37	
SM 5310C	Dissolved Organic Carbon	2.0	mg/L	1.0	05/17/21 19:35	
50286756008	MW-11D Rad MS					
EPA 903.1	Radium-226	74.64 %REC ± NA (NA) C:NA T:NA	pCi/L		06/11/21 12:43	
EPA 904.0	Radium-228	130.16 %REC ± NA (NA) C:NA T:NA	pCi/L		06/10/21 11:18	
50286756009	MW-11D Rad MSD					
EPA 903.1	Radium-226	92.35 %REC 21.21 RPD ± NA (NA) C:NA T:NA	pCi/L		06/11/21 12:43	
EPA 904.0	Radium-228	121.76 %REC 6.67 RPD ± NA (NA) C:NA T:NA	pCi/L		06/10/21 11:18	

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1S	Lab ID: 50286756001	Collected: 05/05/21 10:54	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	309	mg/L	50.0	200		05/22/21 13:36	16887-00-6	
Fluoride	0.24	mg/L	0.10	1		05/21/21 12:30	16984-48-8	
Sulfate	69.5	mg/L	5.0	20		05/21/21 12:46	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 06:30	05/14/21 23:33	7429-90-5	
Barium	125	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:33	7440-39-3	
Boron	199	ug/L	100	1	05/14/21 06:30	05/14/21 23:33	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:33	7440-43-9	
Calcium	111000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:33	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:33	7440-47-3	
Iron	12100	ug/L	100	1	05/14/21 06:30	05/14/21 23:33	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:33	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:33	7439-93-2	
Magnesium	26600	ug/L	1000	1	05/14/21 06:30	05/14/21 23:33	7439-95-4	
Manganese	345	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:33	7439-96-5	
Molybdenum	24.8	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:33	7439-98-7	
Potassium	5940	ug/L	1000	1	05/14/21 06:30	05/14/21 23:33	7440-09-7	
Silica	12600	ug/L	450	1	05/14/21 06:30	05/14/21 23:33	7631-86-9	N2
Sodium	116000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:33	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	320	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:07	7439-96-5	
Molybdenum, Dissolved	24.7	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:07	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	2.8	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:52	7440-36-0	
Arsenic	24.6	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:52	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 09:52	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:52	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:52	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:52	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:26	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	235	mg/L	2.0	1		05/10/21 12:47		
Alkalinity, Bicarbonate (CaCO3)	235	mg/L	2.0	1		05/10/21 12:47		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/10/21 12:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1S	Lab ID: 50286756001	Collected: 05/05/21 10:54	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	688	mg/L	20.0	1		05/10/21 11:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/10/21 15:03		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:03		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/07/21 07:25	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:25	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	5.9	mg/L	0.30	2	05/13/21 10:59	05/14/21 11:35		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	2.2	mg/L	1.0	1		05/08/21 06:58	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 17:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1D	Lab ID: 50286756002	Collected: 05/05/21 11:57	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	186	mg/L	5.0	20		05/21/21 13:19	16887-00-6	
Fluoride	0.23	mg/L	0.10	1		05/21/21 13:03	16984-48-8	
Sulfate	71.6	mg/L	5.0	20		05/21/21 13:19	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 06:30	05/14/21 23:35	7429-90-5	
Barium	77.5	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:35	7440-39-3	
Boron	434	ug/L	100	1	05/14/21 06:30	05/14/21 23:35	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:35	7440-43-9	
Calcium	102000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:35	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:35	7440-47-3	
Iron	3110	ug/L	100	1	05/14/21 06:30	05/14/21 23:35	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:35	7439-92-1	
Lithium	23.6	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:35	7439-93-2	
Magnesium	22200	ug/L	1000	1	05/14/21 06:30	05/14/21 23:35	7439-95-4	
Manganese	254	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:35	7439-96-5	
Molybdenum	39.8	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:35	7439-98-7	
Potassium	5920	ug/L	1000	1	05/14/21 06:30	05/14/21 23:35	7440-09-7	
Silica	14600	ug/L	450	1	05/14/21 06:30	05/14/21 23:35	7631-86-9	N2
Sodium	86400	ug/L	1000	1	05/14/21 06:30	05/14/21 23:35	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	240	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:09	7439-96-5	
Molybdenum, Dissolved	40.7	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:09	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:57	7440-36-0	
Arsenic	5.9	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:57	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 09:57	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:57	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:57	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 09:57	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:28	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	231	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Bicarbonate (CaCO3)	231	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/10/21 12:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1D	Lab ID: 50286756002	Collected: 05/05/21 11:57	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	625	mg/L	10.0	1		05/10/21 11:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/10/21 15:15		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	0.29	mg/L	0.20	1		05/14/21 10:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/07/21 07:27	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:27	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.44	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:26		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.8	mg/L	1.0	1		05/08/21 07:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 17:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-6S	Lab ID: 50286756003	Collected: 05/05/21 13:50	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	240	mg/L	50.0	200		05/22/21 13:51	16887-00-6	
Fluoride	1.3	mg/L	0.10	1		05/21/21 13:35	16984-48-8	
Sulfate	466	mg/L	5.0	20		05/21/21 13:52	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 06:30	05/14/21 23:37	7429-90-5	
Barium	113	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:37	7440-39-3	
Boron	7470	ug/L	100	1	05/14/21 06:30	05/14/21 23:37	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:37	7440-43-9	
Calcium	224000	ug/L	2000	2	05/14/21 06:30	05/15/21 00:02	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:37	7440-47-3	
Iron	6430	ug/L	100	1	05/14/21 06:30	05/14/21 23:37	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:37	7439-92-1	
Lithium	62.6	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:37	7439-93-2	
Magnesium	61200	ug/L	1000	1	05/14/21 06:30	05/14/21 23:37	7439-95-4	
Manganese	1800	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:37	7439-96-5	
Molybdenum	216	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:37	7439-98-7	
Potassium	10700	ug/L	1000	1	05/14/21 06:30	05/14/21 23:37	7440-09-7	
Silica	13400	ug/L	450	1	05/14/21 06:30	05/14/21 23:37	7631-86-9	N2
Sodium	165000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:37	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	1730	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:11	7439-96-5	
Molybdenum, Dissolved	213	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:11	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:01	7440-36-0	
Arsenic	11.9	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:01	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 10:01	7440-41-7	
Cobalt	1.8	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:01	7440-48-4	
Selenium	3.9	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:01	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:01	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:34	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	389	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Bicarbonate (CaCO3)	389	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/10/21 12:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-6S	Lab ID: 50286756003	Collected: 05/05/21 13:50	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1390	mg/L	20.0	1		05/10/21 11:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/10/21 15:33		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.22	mg/L	0.10	1		05/07/21 07:34	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:34	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.42	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:27		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.9	mg/L	1.0	1		05/08/21 07:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 18:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-8S	Lab ID: 50286756004	Collected: 05/05/21 09:28	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	153	mg/L	5.0	20		05/21/21 14:24	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/21/21 14:08	16984-48-8	
Sulfate	512	mg/L	50.0	200		05/22/21 14:05	14808-79-8	P8
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 06:30	05/14/21 23:40	7429-90-5	
Barium	29.5	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:40	7440-39-3	
Boron	10800	ug/L	100	1	05/14/21 06:30	05/14/21 23:40	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:40	7440-43-9	
Calcium	182000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:40	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:40	7440-47-3	
Iron	ND	ug/L	100	1	05/14/21 06:30	05/14/21 23:40	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:40	7439-92-1	
Lithium	123	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:40	7439-93-2	
Magnesium	74200	ug/L	1000	1	05/14/21 06:30	05/14/21 23:40	7439-95-4	
Manganese	132	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:40	7439-96-5	
Molybdenum	354	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:40	7439-98-7	
Potassium	18900	ug/L	1000	1	05/14/21 06:30	05/14/21 23:40	7440-09-7	
Silica	12500	ug/L	450	1	05/14/21 06:30	05/14/21 23:40	7631-86-9	N2
Sodium	133000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:40	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	94.4	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:14	7439-96-5	
Molybdenum, Dissolved	336	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:14	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:06	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:06	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 10:06	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:06	7440-48-4	
Selenium	2.1	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:06	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:06	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:36	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	328	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Bicarbonate (CaCO3)	328	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/10/21 12:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-8S	Lab ID: 50286756004	Collected: 05/05/21 09:28	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1320	mg/L	20.0	1		05/10/21 11:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		05/10/21 14:28		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:04		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.33	mg/L	0.10	1		05/07/21 07:21	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:21	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:28		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.6	mg/L	1.0	1		05/08/21 07:58	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 18:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11D	Lab ID: 50286756005	Collected: 05/05/21 12:20	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	78.3	mg/L	5.0	20		05/21/21 16:02	16887-00-6	
Fluoride	0.25	mg/L	0.10	1		05/21/21 15:13	16984-48-8	
Sulfate	547	mg/L	50.0	200		05/22/21 14:20	14808-79-8	P8
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	238	ug/L	200	1	05/14/21 06:30	05/14/21 23:42	7429-90-5	
Arsenic	15.5	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7440-38-2	
Barium	26.5	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7440-39-3	
Boron	10800	ug/L	100	1	05/14/21 06:30	05/14/21 23:42	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:42	7440-43-9	
Calcium	216000	ug/L	2000	2	05/14/21 06:30	05/15/21 00:04	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7440-47-3	
Iron	5910	ug/L	100	1	05/14/21 06:30	05/14/21 23:42	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7439-92-1	
Lithium	141	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:42	7439-93-2	
Magnesium	52100	ug/L	1000	1	05/14/21 06:30	05/14/21 23:42	7439-95-4	
Manganese	45.6	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7439-98-7	
Potassium	3030	ug/L	1000	1	05/14/21 06:30	05/14/21 23:42	7440-09-7	
Selenium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7782-49-2	
Silica	17700	ug/L	450	1	05/14/21 06:30	05/14/21 23:42	7631-86-9	N2
Silver	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:42	7440-22-4	
Sodium	74700	ug/L	1000	1	05/14/21 06:30	05/14/21 23:42	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	32.8	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:16	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:16	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:11	7440-36-0	
Arsenic	15.4	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:11	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 10:11	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:11	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:11	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:11	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:38	7439-97-6	

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11D	Lab ID: 50286756005	Collected: 05/05/21 12:20	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO ₃	251	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Bicarbonate (CaCO ₃)	251	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	2.0	1		05/10/21 12:47		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1170	mg/L	20.0	1		05/10/21 11:53		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		05/10/21 15:25		H3
4500S2D Sulfide Water								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:04		H3,N2
353.2 Nitrogen, NO₂/NO₃ unpres								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/07/21 07:28	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:28	14797-65-0	B0
365.1 Total Phosphorus								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P ₀₄	ND	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:30		
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/08/21 08:18	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 18:29		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11S	Lab ID: 50286756006	Collected: 05/05/21 10:15	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	25.3	mg/L	5.0	20		05/21/21 16:51	16887-00-6	
Fluoride	1.4	mg/L	0.10	1		05/21/21 16:35	16984-48-8	
Sulfate	101	mg/L	5.0	20		05/21/21 16:51	14808-79-8	P8
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 06:30	05/14/21 23:57	7429-90-5	
Barium	75.1	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:57	7440-39-3	
Boron	530	ug/L	100	1	05/14/21 06:30	05/14/21 23:57	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:57	7440-43-9	
Calcium	49200	ug/L	1000	1	05/14/21 06:30	05/14/21 23:57	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:57	7440-47-3	
Iron	238	ug/L	100	1	05/14/21 06:30	05/14/21 23:57	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:57	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:57	7439-93-2	
Magnesium	29000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:57	7439-95-4	
Manganese	11.0	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:57	7439-96-5	
Molybdenum	77.6	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:57	7439-98-7	
Potassium	2000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:57	7440-09-7	
Silica	14200	ug/L	450	1	05/14/21 06:30	05/14/21 23:57	7631-86-9	N2
Sodium	20000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:57	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	22.8	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:31	7439-96-5	
Molybdenum, Dissolved	75.5	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:31	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:43	7440-36-0	
Arsenic	2.4	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:43	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 10:43	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:43	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:43	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:43	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:45	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	195	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Bicarbonate (CaCO3)	195	mg/L	2.0	1		05/10/21 12:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/10/21 12:47		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11S	Lab ID: 50286756006	Collected: 05/05/21 10:15	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	390	mg/L	10.0	1		05/10/21 11:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/10/21 14:47		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:05		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.15	mg/L	0.10	1		05/07/21 07:23	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:23	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:28		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/08/21 09:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/17/21 19:00		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286756

Sample: MW-14D	Lab ID: 50286756007	Collected: 05/05/21 14:55	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	414	mg/L	50.0	200		05/25/21 16:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/21/21 17:07	16984-48-8	
Sulfate	2330	mg/L	50.0	200		05/25/21 16:33	14808-79-8	P8
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	981	ug/L	200	1	05/14/21 06:30	05/14/21 23:59	7429-90-5	
Barium	71.1	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:59	7440-39-3	
Boron	48700	ug/L	100	1	05/14/21 06:30	05/14/21 23:59	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 06:30	05/14/21 23:59	7440-43-9	
Calcium	509000	ug/L	5000	5	05/14/21 06:30	05/15/21 00:10	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:59	7440-47-3	
Iron	4410	ug/L	100	1	05/14/21 06:30	05/14/21 23:59	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:59	7439-92-1	
Lithium	809	ug/L	20.0	1	05/14/21 06:30	05/14/21 23:59	7439-93-2	
Magnesium	197000	ug/L	1000	1	05/14/21 06:30	05/14/21 23:59	7439-95-4	
Manganese	422	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:59	7439-96-5	
Molybdenum	218	ug/L	10.0	1	05/14/21 06:30	05/14/21 23:59	7439-98-7	
Potassium	55800	ug/L	1000	1	05/14/21 06:30	05/14/21 23:59	7440-09-7	
Silica	14700	ug/L	450	1	05/14/21 06:30	05/14/21 23:59	7631-86-9	N2
Sodium	396000	ug/L	5000	5	05/14/21 06:30	05/15/21 00:10	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	370	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:34	7439-96-5	
Molybdenum, Dissolved	214	ug/L	10.0	1	05/13/21 13:24	05/14/21 03:34	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:57	7440-36-0	
Arsenic	133	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:57	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:25	05/13/21 10:57	7440-41-7	
Cobalt	1.2	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:57	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:57	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:25	05/13/21 10:57	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/11/21 09:37	05/11/21 19:47	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	164	mg/L	2.0	1		05/11/21 20:34		
Alkalinity,Bicarbonate (CaCO3)	164	mg/L	2.0	1		05/11/21 20:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/11/21 20:34		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-14D	Lab ID: 50286756007	Collected: 05/05/21 14:55	Received: 05/06/21 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	3890	mg/L	40.0	1		05/10/21 11:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/10/21 15:41		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/07/21 09:36	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 10:06		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/07/21 07:40	14797-55-8	B0
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/07/21 07:40	14797-65-0	B0
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.70	mg/L	0.15	1	05/13/21 10:59	05/14/21 10:29		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.9	mg/L	1.0	1		05/08/21 09:37	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.0	mg/L	1.0	1		05/17/21 19:35		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286756

QC Batch: 622069 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2866895 Matrix: Water
Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/21/21 11:57	
Fluoride	mg/L	ND	0.10	05/21/21 11:57	
Sulfate	mg/L	ND	0.25	05/21/21 11:57	

LABORATORY CONTROL SAMPLE: 2866896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	92	80-120	
Fluoride	mg/L	0.5	0.50	101	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866897 2866898

Parameter	Units	50286756005		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	78.3	25	25	106	102	111	96	80-120	4	15		
Fluoride	mg/L	0.25	0.5	0.5	0.68	0.67	86	84	80-120	1	15		
Sulfate	mg/L	547	250	250	818	815	108	107	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866899 2866900

Parameter	Units	50286806002		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	309000 ug/L	125	125	454	452	116	114	80-120	1	15		
Fluoride	mg/L	1070 ug/L	0.5	0.5	1.5	1.5	87	95	80-120	3	15		
Sulfate	mg/L	1910000 ug/L	250	250	2260	2250	140	137	80-120	0	15 M0		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	619798	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2856579 Matrix: Water

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/11/21 18:50	

LABORATORY CONTROL SAMPLE: 2856580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856581 2856582

Parameter	Units	50286756005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.2	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	620422	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2859191 Matrix: Water

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/14/21 23:31	
Arsenic	ug/L	ND	10.0	05/14/21 23:31	
Barium	ug/L	ND	10.0	05/14/21 23:31	
Boron	ug/L	ND	100	05/14/21 23:31	
Cadmium	ug/L	ND	2.0	05/14/21 23:31	
Calcium	ug/L	ND	1000	05/14/21 23:31	
Chromium	ug/L	ND	10.0	05/14/21 23:31	
Iron	ug/L	ND	100	05/14/21 23:31	
Lead	ug/L	ND	10.0	05/14/21 23:31	
Lithium	ug/L	ND	20.0	05/14/21 23:31	
Magnesium	ug/L	ND	1000	05/14/21 23:31	
Manganese	ug/L	ND	10.0	05/14/21 23:31	
Molybdenum	ug/L	ND	10.0	05/14/21 23:31	
Potassium	ug/L	ND	1000	05/14/21 23:31	
Selenium	ug/L	ND	10.0	05/14/21 23:31	
Silica	ug/L	ND	450	05/14/21 23:31	N2
Silver	ug/L	ND	10.0	05/14/21 23:31	
Sodium	ug/L	ND	1000	05/14/21 23:31	

LABORATORY CONTROL SAMPLE: 2859192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	80-120	
Arsenic	ug/L	1000	985	99	80-120	
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	987	99	80-120	
Cadmium	ug/L	1000	973	97	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	1020	102	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	1000	936	94	80-120	
Lithium	ug/L	1000	988	99	80-120	
Magnesium	ug/L	10000	9650	96	80-120	
Manganese	ug/L	1000	967	97	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	
Potassium	ug/L	10000	9850	98	80-120	
Selenium	ug/L	1000	975	98	80-120	
Silica	ug/L	10700	10200	95		N2
Silver	ug/L	500	477	95	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

LABORATORY CONTROL SAMPLE: 2859192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	ug/L	10000	9880	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859193 2859194

Parameter	Units	50286756005		2859193		2859194		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Aluminum	ug/L	238	10000	10000	10300	10400	101	101	75-125	1	20	
Arsenic	ug/L	15.5	1000	1000	1060	1060	104	105	75-125	1	20	
Barium	ug/L	26.5	1000	1000	1040	1050	102	103	75-125	1	20	
Boron	ug/L	10800	1000	1000	11900	11900	116	116	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	1010	1020	101	102	75-125	1	20	
Calcium	ug/L	216000	10000	10000	235000	231000	186	152	75-125	1	20	P6
Chromium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	1	20	
Iron	ug/L	5910	10000	10000	15900	15900	99	100	75-125	0	20	
Lead	ug/L	ND	1000	1000	903	911	90	91	75-125	1	20	
Lithium	ug/L	141	1000	1000	1150	1160	101	102	75-125	1	20	
Magnesium	ug/L	52100	10000	10000	61700	61900	96	98	75-125	0	20	
Manganese	ug/L	45.6	1000	1000	997	1010	95	96	75-125	1	20	
Molybdenum	ug/L	ND	1000	1000	1050	1060	104	105	75-125	1	20	
Potassium	ug/L	3030	10000	10000	13100	13200	101	101	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1010	1020	101	102	75-125	1	20	
Silica	ug/L	17700	10700	10700	28500	28300	101	99		1		N2
Silver	ug/L	ND	500	500	495	500	99	100	75-125	1	20	
Sodium	ug/L	74700	10000	10000	84800	85000	102	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	620251	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2858216 Matrix: Water
Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/14/21 03:05	
Molybdenum, Dissolved	ug/L	ND	10.0	05/14/21 03:05	

LABORATORY CONTROL SAMPLE: 2858217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	961	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858218 2858219

Parameter	Units	50286756005		2858219		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	32.8	1000	1000	973	960	94	93	75-125	1	20
Molybdenum, Dissolved	ug/L	ND	1000	1000	1040	1030	103	102	75-125	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858220 2858221

Parameter	Units	50286944002		2858221		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	907	1000	1000	1820	1820	91	91	75-125	0	20
Molybdenum, Dissolved	ug/L	519	1000	1000	1530	1520	101	101	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	620151	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2857814 Matrix: Water

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/13/21 09:33	
Arsenic	ug/L	ND	1.0	05/13/21 09:33	
Beryllium	ug/L	ND	0.20	05/13/21 09:33	
Cobalt	ug/L	ND	1.0	05/13/21 09:33	
Selenium	ug/L	ND	1.0	05/13/21 09:33	
Thallium	ug/L	ND	1.0	05/13/21 09:33	

LABORATORY CONTROL SAMPLE: 2857815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	34.0	85	80-120	
Arsenic	ug/L	40	39.2	98	80-120	
Beryllium	ug/L	40	35.2	88	80-120	
Cobalt	ug/L	40	38.6	96	80-120	
Selenium	ug/L	40	40.4	101	80-120	
Thallium	ug/L	40	39.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857816 2857817

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286756005 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	38.3	39.4	96	98	75-125	3	20
Arsenic	ug/L	15.4	40	40	51.7	52.8	91	94	75-125	2	20
Beryllium	ug/L	ND	40	40	37.2	38.3	93	96	75-125	3	20
Cobalt	ug/L	ND	40	40	36.8	37.0	91	92	75-125	1	20
Selenium	ug/L	ND	40	40	37.5	39.0	94	98	75-125	4	20
Thallium	ug/L	ND	40	40	40.3	41.6	101	104	75-125	3	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857818 2857819

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286944002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	38.4	37.5	96	93	75-125	2	20
Arsenic	ug/L	17.0	40	40	54.3	53.1	93	90	75-125	2	20
Beryllium	ug/L	ND	40	40	112	121	279	303	75-125	8	20 M3
Cobalt	ug/L	2.1	40	40	38.5	38.6	91	91	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Parameter	Units	2857818		2857819		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286944002 Result	MS Spike Conc.	MSD Spike Conc.									
Selenium	ug/L	ND	40	40	40.7	40.4	100	100	75-125	1	20		
Thallium	ug/L	ND	40	40	40.6	40.2	101	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 619607 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006

METHOD BLANK: 2855296 Matrix: Water

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	2.0	05/10/21 12:47	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	2.0	05/10/21 12:47	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	2.0	05/10/21 12:47	

LABORATORY CONTROL SAMPLE: 2855297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.9	100	90-110	

SAMPLE DUPLICATE: 2855298

Parameter	Units	50286756005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	251	257	3	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	251	257	3	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2855299

Parameter	Units	50286712010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	496	491	1	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	496	491	1	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 620110	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756007

METHOD BLANK: 2857631 Matrix: Water

Associated Lab Samples: 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	2.0	05/11/21 20:34	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	2.0	05/11/21 20:34	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	2.0	05/11/21 20:34	

LABORATORY CONTROL SAMPLE: 2857632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.4	99	90-110	

SAMPLE DUPLICATE: 2857633

Parameter	Units	50286788001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	372	342	8	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	372	342	8	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2857634

Parameter	Units	50286805001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	255	257	1	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	255	257	1	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<2.0	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 619751 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2856458 Matrix: Water
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/10/21 11:45	

LABORATORY CONTROL SAMPLE: 2856459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 2856460

Parameter	Units	50286712010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	580	562	3	10	

SAMPLE DUPLICATE: 2856461

Parameter	Units	50286756005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1170	1180	1	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 619779

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

SAMPLE DUPLICATE: 2856542

Parameter	Units	50286756005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	1	2	H3

SAMPLE DUPLICATE: 2856543

Parameter	Units	50286825002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.5	6.5	1	2	H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 619416 Analysis Method: SM 4500-S2-D
 QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2854179 Matrix: Water
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/07/21 09:36	

LABORATORY CONTROL SAMPLE: 2854180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854181 2854182

Parameter	Units	50286756005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	94	93	90-110	0	20	

MATRIX SPIKE SAMPLE: 2854183

Parameter	Units	50286663001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.51	101	90-110	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	620719	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK:	2860754	Matrix:	Water
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Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 10:02	H3,N2

LABORATORY CONTROL SAMPLE: 2860755						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	100	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860756													2860757		
Parameter	Units	50286756005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Iron, Ferrous	mg/L	ND	1	1	1.1	1.2	102	105	90-110	2	20	H3,N2			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860758													2860759		
Parameter	Units	50286944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	108	108	90-110	0	20	H3,N2			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	619407	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007		

METHOD BLANK:	2854153	Matrix:	Water
Associated Lab Samples:	50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/07/21 07:17	B0
Nitrogen, Nitrite	mg/L	ND	0.10	05/07/21 07:17	B0

LABORATORY CONTROL SAMPLE: 2854154						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	105	90-110	B0
Nitrogen, Nitrite	mg/L	1	1.1	109	90-110	B0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854155												2854156	
Parameter	Units	50286756005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	104	105	90-110	1	20	B0	
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	109	109	90-110	1	20	B0	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	620469	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756006, 50286756007

METHOD BLANK: 2859327 Matrix: Water
Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/14/21 10:12	

LABORATORY CONTROL SAMPLE: 2859328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859329 2859330

Parameter	Units	50286717001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.32			1.9	2.1				9		

MATRIX SPIKE SAMPLE: 2859331

Parameter	Units	50286751003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L			1.5			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 620470	Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1	Analysis Description: 365.1 Total Phosphorus
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756005

METHOD BLANK: 2859332 Matrix: Water

Associated Lab Samples: 50286756005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/14/21 10:29	

LABORATORY CONTROL SAMPLE: 2859333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859334 2859335

Parameter	Units	50286756005		2859335		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphate as P04	mg/L	ND		1.5	1.6				6		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 619454 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2854374 Matrix: Water
 Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/08/21 00:06	

LABORATORY CONTROL SAMPLE: 2854375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854376 2854377

Parameter	Units	50286756005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	10.6	10.8	97	99	80-120	2	20	

MATRIX SPIKE SAMPLE: 2854378

Parameter	Units	50286675002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5.5	10	15.0	95	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	621097	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

METHOD BLANK: 2862568 Matrix: Water
Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/17/21 17:21	

LABORATORY CONTROL SAMPLE: 2862569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862570 2862571

Parameter	Units	50286756005		2862570		2862571		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Dissolved Organic Carbon	mg/L	ND	10	10	9.4	9.4	94	94	94	94	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862572 2862573

Parameter	Units	50286830001		2862572		2862573		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Dissolved Organic Carbon	mg/L	1.5	10	10	11.3	11.2	98	98	98	98	80-120	1	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1S **Lab ID: 50286756001** Collected: 05/05/21 10:54 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.56 ± 0.877 (1.08) C:NA T:92%	pCi/L	06/11/21 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.98 ± 0.593 (0.742) C:69% T:89%	pCi/L	06/10/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.54 ± 1.47 (1.82)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-1D **Lab ID: 50286756002** Collected: 05/05/21 11:57 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.753 ± 0.767 (1.17) C:NA T:88%	pCi/L	06/11/21 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.24 ± 0.511 (0.824) C:63% T:90%	pCi/L	06/10/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.99 ± 1.28 (1.99)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-6S **Lab ID: 50286756003** Collected: 05/05/21 13:50 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0882 ± 0.494 (0.948) C:NA T:84%	pCi/L	06/11/21 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.672 ± 0.403 (0.754) C:70% T:91%	pCi/L	06/10/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.760 ± 0.897 (1.70)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-8S **Lab ID: 50286756004** Collected: 05/05/21 09:28 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.357 ± 0.726 (1.24) C:NA T:90%	pCi/L	06/11/21 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.247 ± 0.359 (0.773) C:68% T:88%	pCi/L	06/10/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.604 ± 1.09 (2.01)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11D **Lab ID: 50286756005** Collected: 05/05/21 12:20 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.375 ± 0.386 (0.563) C:NA T:87%	pCi/L	06/11/21 12:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.290 ± 0.365 (0.774) C:64% T:89%	pCi/L	06/10/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.665 ± 0.751 (1.34)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11S **Lab ID: 50286756006** Collected: 05/05/21 10:15 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.704 ± 0.782 (1.21) C:NA T:85%	pCi/L	06/11/21 12:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.744 ± 0.411 (0.746) C:67% T:89%	pCi/L	06/10/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.45 ± 1.19 (1.96)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-14D **Lab ID: 50286756007** Collected: 05/05/21 14:55 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.533 ± 0.604 (0.939) C:NA T:102%	pCi/L	06/11/21 12:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.54 ± 0.612 (0.989) C:63% T:85%	pCi/L	06/10/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.07 ± 1.22 (1.93)	pCi/L	06/14/21 09:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11D Rad MS **Lab ID: 50286756008** Collected: 05/05/21 12:20 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	74.64 %REC ± NA (NA) C:NA T:NA	pCi/L	06/11/21 12:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	130.16 %REC ± NA (NA) C:NA T:NA	pCi/L	06/10/21 11:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Sample: MW-11D Rad MSD **Lab ID: 50286756009** Collected: 05/05/21 12:20 Received: 05/06/21 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	92.35 %REC 21.21 RPD ± NA (NA) C:NA T:NA	pCi/L	06/11/21 12:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	121.76 %REC 6.67 RPD ± NA (NA) C:NA T:NA	pCi/L	06/10/21 11:18	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch:	449080	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007, 50286756008, 50286756009

METHOD BLANK:	2167351	Matrix:	Water
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Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007, 50286756008, 50286756009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.375 ± 0.296 (0.582) C:72% T:89%	pCi/L	06/10/21 11:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

QC Batch: 449079

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007, 50286756008, 50286756009

METHOD BLANK: 2167350

Matrix: Water

Associated Lab Samples: 50286756001, 50286756002, 50286756003, 50286756004, 50286756005, 50286756006, 50286756007, 50286756008, 50286756009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0328 ± 0.290 (0.630) C:NA T:88%	pCi/L	06/11/21 11:56	

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 619407

[B0] Analyte was detected in an associated blank at a concentration greater than the MDL.

ANALYTE QUALIFIERS

B0 Analyte was detected in an associated blank at a concentration greater than the MDL.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286756001	MW-1S	EPA 9056	622069		
50286756002	MW-1D	EPA 9056	622069		
50286756003	MW-6S	EPA 9056	622069		
50286756004	MW-8S	EPA 9056	622069		
50286756005	MW-11D	EPA 9056	622069		
50286756006	MW-11S	EPA 9056	622069		
50286756007	MW-14D	EPA 9056	622069		
50286756001	MW-1S	EPA 3010	620422	EPA 6010	620886
50286756002	MW-1D	EPA 3010	620422	EPA 6010	620886
50286756003	MW-6S	EPA 3010	620422	EPA 6010	620886
50286756004	MW-8S	EPA 3010	620422	EPA 6010	620886
50286756005	MW-11D	EPA 3010	620422	EPA 6010	620886
50286756006	MW-11S	EPA 3010	620422	EPA 6010	620886
50286756007	MW-14D	EPA 3010	620422	EPA 6010	620886
50286756001	MW-1S	EPA 3010	620251	EPA 6010	620699
50286756002	MW-1D	EPA 3010	620251	EPA 6010	620699
50286756003	MW-6S	EPA 3010	620251	EPA 6010	620699
50286756004	MW-8S	EPA 3010	620251	EPA 6010	620699
50286756005	MW-11D	EPA 3010	620251	EPA 6010	620699
50286756006	MW-11S	EPA 3010	620251	EPA 6010	620699
50286756007	MW-14D	EPA 3010	620251	EPA 6010	620699
50286756001	MW-1S	EPA 200.2	620151	EPA 6020	620443
50286756002	MW-1D	EPA 200.2	620151	EPA 6020	620443
50286756003	MW-6S	EPA 200.2	620151	EPA 6020	620443
50286756004	MW-8S	EPA 200.2	620151	EPA 6020	620443
50286756005	MW-11D	EPA 200.2	620151	EPA 6020	620443
50286756006	MW-11S	EPA 200.2	620151	EPA 6020	620443
50286756007	MW-14D	EPA 200.2	620151	EPA 6020	620443
50286756001	MW-1S	EPA 7470	619798	EPA 7470	620171
50286756002	MW-1D	EPA 7470	619798	EPA 7470	620171
50286756003	MW-6S	EPA 7470	619798	EPA 7470	620171
50286756004	MW-8S	EPA 7470	619798	EPA 7470	620171
50286756005	MW-11D	EPA 7470	619798	EPA 7470	620171
50286756006	MW-11S	EPA 7470	619798	EPA 7470	620171
50286756007	MW-14D	EPA 7470	619798	EPA 7470	620171
50286756001	MW-1S	EPA 903.1	449079		
50286756002	MW-1D	EPA 903.1	449079		
50286756003	MW-6S	EPA 903.1	449079		
50286756004	MW-8S	EPA 903.1	449079		
50286756005	MW-11D	EPA 903.1	449079		
50286756006	MW-11S	EPA 903.1	449079		
50286756007	MW-14D	EPA 903.1	449079		
50286756008	MW-11D Rad MS	EPA 903.1	449079		
50286756009	MW-11D Rad MSD	EPA 903.1	449079		
50286756001	MW-1S	EPA 904.0	449080		
50286756002	MW-1D	EPA 904.0	449080		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286756003	MW-6S	EPA 904.0	449080		
50286756004	MW-8S	EPA 904.0	449080		
50286756005	MW-11D	EPA 904.0	449080		
50286756006	MW-11S	EPA 904.0	449080		
50286756007	MW-14D	EPA 904.0	449080		
50286756008	MW-11D Rad MS	EPA 904.0	449080		
50286756009	MW-11D Rad MSD	EPA 904.0	449080		
50286756001	MW-1S	Total Radium Calculation	452242		
50286756002	MW-1D	Total Radium Calculation	452242		
50286756003	MW-6S	Total Radium Calculation	452242		
50286756004	MW-8S	Total Radium Calculation	452242		
50286756005	MW-11D	Total Radium Calculation	452242		
50286756006	MW-11S	Total Radium Calculation	452242		
50286756007	MW-14D	Total Radium Calculation	452242		
50286756001	MW-1S	SM 2320B	619607		
50286756002	MW-1D	SM 2320B	619607		
50286756003	MW-6S	SM 2320B	619607		
50286756004	MW-8S	SM 2320B	619607		
50286756005	MW-11D	SM 2320B	619607		
50286756006	MW-11S	SM 2320B	619607		
50286756007	MW-14D	SM 2320B	620110		
50286756001	MW-1S	SM 2540C	619751		
50286756002	MW-1D	SM 2540C	619751		
50286756003	MW-6S	SM 2540C	619751		
50286756004	MW-8S	SM 2540C	619751		
50286756005	MW-11D	SM 2540C	619751		
50286756006	MW-11S	SM 2540C	619751		
50286756007	MW-14D	SM 2540C	619751		
50286756001	MW-1S	SM 4500-H+B	619779		
50286756002	MW-1D	SM 4500-H+B	619779		
50286756003	MW-6S	SM 4500-H+B	619779		
50286756004	MW-8S	SM 4500-H+B	619779		
50286756005	MW-11D	SM 4500-H+B	619779		
50286756006	MW-11S	SM 4500-H+B	619779		
50286756007	MW-14D	SM 4500-H+B	619779		
50286756001	MW-1S	SM 4500-S2-D	619416		
50286756002	MW-1D	SM 4500-S2-D	619416		
50286756003	MW-6S	SM 4500-S2-D	619416		
50286756004	MW-8S	SM 4500-S2-D	619416		
50286756005	MW-11D	SM 4500-S2-D	619416		
50286756006	MW-11S	SM 4500-S2-D	619416		
50286756007	MW-14D	SM 4500-S2-D	619416		
50286756001	MW-1S	HACH 8146	620719		
50286756002	MW-1D	HACH 8146	620719		
50286756003	MW-6S	HACH 8146	620719		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286756004	MW-8S	HACH 8146	620719		
50286756005	MW-11D	HACH 8146	620719		
50286756006	MW-11S	HACH 8146	620719		
50286756007	MW-14D	HACH 8146	620719		
50286756001	MW-1S	EPA 353.2	619407		
50286756002	MW-1D	EPA 353.2	619407		
50286756003	MW-6S	EPA 353.2	619407		
50286756004	MW-8S	EPA 353.2	619407		
50286756005	MW-11D	EPA 353.2	619407		
50286756006	MW-11S	EPA 353.2	619407		
50286756007	MW-14D	EPA 353.2	619407		
50286756001	MW-1S	EPA 365.1	620469	EPA 365.1	620640
50286756002	MW-1D	EPA 365.1	620469	EPA 365.1	620640
50286756003	MW-6S	EPA 365.1	620469	EPA 365.1	620640
50286756004	MW-8S	EPA 365.1	620469	EPA 365.1	620640
50286756005	MW-11D	EPA 365.1	620470	EPA 365.1	620641
50286756006	MW-11S	EPA 365.1	620469	EPA 365.1	620640
50286756007	MW-14D	EPA 365.1	620469	EPA 365.1	620640
50286756001	MW-1S	SM 5310C	619454		
50286756002	MW-1D	SM 5310C	619454		
50286756003	MW-6S	SM 5310C	619454		
50286756004	MW-8S	SM 5310C	619454		
50286756005	MW-11D	SM 5310C	619454		
50286756006	MW-11S	SM 5310C	619454		
50286756007	MW-14D	SM 5310C	619454		
50286756001	MW-1S	SM 5310C	621097		
50286756002	MW-1D	SM 5310C	621097		
50286756003	MW-6S	SM 5310C	621097		
50286756004	MW-8S	SM 5310C	621097		
50286756005	MW-11D	SM 5310C	621097		
50286756006	MW-11S	SM 5310C	621097		
50286756007	MW-14D	SM 5310C	621097		

REPORT OF LABORATORY ANALYSIS

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WU#: 50286756



50286756

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section C

Required Client Information:
Company: ATC Group Services
Address: 7988 Centerpoint Drive
Indianapolis, IN 46256
Email: mark.breting@atcassociates.com
Phone: NONE Fax:
Requested Due Date:

Required Project Information:
Report To: Mark Breting
Copy To:
Purchase Order #:
Project Name: Harding St Profile 1 Report 1
Project #:

Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: Hayden Putt
Pace Profile #: 6246 Line 26

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED START DATE TIME END DATE TIME	SAMPLER TEMP AT COLLECTION # OF CONTAINERS	Preservatives															Requested Analysis Filtered (Y/N)															Regulatory Agency	State / Location	IN
						Y															Y																	
						Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other	Analyses Test	TDS	(Cl, F, SO4) IC	Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2	Residual Chlorine (Y/N)											
1	MW-1S	WT		5-5-21 1054	11 3 3 4																				001													
2	MW-1D	WT		5-5-21 1157	11 3 3 4																					002												
3	MW-2S	WT			11 3 3 4																																	
4	MW-2D	WT			11 3 3 4																																	
5	MW-3S	WT			11 3 3 4																																	
6	MW-3D	WT			11 3 3 4																																	
7	MW-4S	WT			11 3 3 4																																	
8	MW-5S	WT			11 3 3 4																																	
9	MW-6S	WT		5-5-21 1350	11 3 3 4																					003												
10	MW-7S	WT			11 3 3 4																																	
11	MW-7D	WT			11 3 3 4																																	
12	MW-8S	WT		5-5-21 928	11 3 3 4																						004											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Jankowiak	5-5-21	6:06 pm	Zach Pace	5/6/21	1540				
6020 (Be, Co, As, Se, Sb, Ti), 7470 (Hg)	Zach Pace	5/6/21	1605	Zach Pace	5/6/21	1605	1.2	Y	N	Y
** Dissolved FF 6010 (Mo, Mn)							LO	Y		
Alkalinity = (Total, Bicarb & Carb)							0.8	1.3	1.4	

MW-1S contact ATC
For possible analysis for
Full list dissolved metals

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Andy Jankowiak								
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 5-5-21						

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company:	ATC Group Services
Address:	7988 Centerpoint Drive Indianapolis, IN 46256
Email:	mark.breing@atcassociates.com
Phone:	NONE
Requested Due Date:	

Section B

Required Project Information:

Report To:	Mark Breting
Copy To:	
Purchase Order #:	
Project Name:	Harding St Profile 1 Report 1
Project #:	

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Hayden Putt
Pace Profile #:	6246 Line 26

Regulatory Agency	
State / Location	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)																							
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other		Y/N	TDS	(Cl, F, SO4) IC	Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2	Residual Chlorine (Y/N)										
						DATE	TIME	DATE	TIME																																			
13	MW-9S	WT									11	3	3	4	1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
14	MW-9I	WT									11	3	3	4	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
15	MW-9D	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
16	MW-10S	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
17	MW-10D	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
18	MW-11D	WT					5-5-21	12:20			11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		605, 008, 009			
19	MW-12S	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		006		
20	MW-11S	WT					5-5-21	10:15			11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
21	MW-12D	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
22	MW-13S	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
23	MW-13D	WT									11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
24	MW-14D	WT					5-5-21	14:55			11	3	3	4	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		007

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Jasnowich	5-5-21	6:00S	Paul Z...	5/6	10:40	
6020 (Be, Co, As, Se, Sb, Ti), 7470 (Hg)	Paul Z...	5/6/21	1600	Pace	5/6/21	1605	1.2 1.6
** Dissolved FF 6010 (Mo, Mn)							0.8
Alkalinity = (Total, Bicarb & Carb)							1.3 1.4

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
SIGNATURE of SAMPLER: <i>Andy Jasnowich</i>	DATE Signed: 5-5-21				



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 3 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: ATC Group Services		Report To: Mark Breting		Attention:	
Address: 7988 Centerpoint Drive		Copy To:		Company Name:	
Indianapolis, IN 46256		Purchase Order #:		Address:	
Email: mark.breting@atcassociates.com		Project Name: Harding St Profile 1 Report 1		Pace Quote:	
Phone: NONE Fax:		Project #: 6246 Line 26		Pace Project Manager: Hayden Putt	
Requested Due Date:		Requested Analysis Filtered (Y/N)		Regulatory Agency	
				State / Location	
				IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , . -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)																						
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol		Other	Analyses Test	TDS	(Cl, F, SO4) IC	Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2	Residual Chlorine (Y/N)								
						DATE	TIME	DATE	TIME																																	
25	MW-15S			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
26	MW-15I			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
27	MW-15D			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
28	DUP 1			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
29	DUP 2			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
30	Field Blank 1			WT						9	3	2	3	1							X	X	X		X	X	X					X	X	X								
31	MS1			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
32	MSD1			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
33	MS2			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
34	MSD2			WT						11	3	3	4	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
35																																										
36																																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																																			
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Jaskowski	5-5-21	6:06	per Zach Trapani	5/6/21	15:40																																				
6020 (Be, Co, As, Se, Sb, Tl), 7470 (Hg)	Zach Trapani	5/6/21	16:05	Pace	5/6/21	16:05	1.2	Y	N	Y																																
** Dissolved FF 6010 (Mo, Mn)							1.0																																			
Alkalinity = (Total, Bicarb & Carb)							0.0	1.3	1.4																																	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Contact (Y/N)
PRINT Name of SAMPLER: Andy Jaskowski					
SIGNATURE of SAMPLER: <i>Andy Jaskowski</i>					
DATE Signed: 5-5-21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MRP 5/6/21 1700

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 A B C D E F
4. Cooler Temperature: 1.6/1.2, 1.4/1.0, 1.2/0.8, 1.7/1.4, 1.8/1.4
 Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	/		Circle: <u>HNO₃ (<2)</u> <u>H₂SO₄ (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>1730</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

Sample Line Item	WGFLU	SBS DI BK Kit R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	Filtered		Not Filtered		BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10
											AG3S	AG3C	BP1U	BP1N														
1											2			2	1	2	1	1		1					WT	✓	✓	
2											2			2	1	2	1	1		1					WT	✓	✓	
3																												
4																												
5																												
6																												
7																												
8																												
9											2			2	1	2	1	1	1		1				WT	✓	✓	
10																												
11																												
12											2			2	1	2	1	1	1		1							

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGFLU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10						
																															1					
2																																				
3																																				
4																																				
5																																				
6												6			6	3	6	3	3	3												wt	✓	✓		
7																																				
8												2			2	1	2	1	1	1													wt	✓	✓	
9																																				
10																																				
11																																				
12												2			2	1	2	1	1	1														wt	✓	✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGFLU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFLU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10		
																														1	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

MS
MSD

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

July 27, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50286949001	MW-5S	Water	05/06/21 09:52	05/07/21 16:40
50286949002	MW-7S	Water	05/06/21 11:15	05/07/21 16:40
50286949003	MW-7D	Water	05/06/21 12:12	05/07/21 16:40
50286949004	MW-10S	Water	05/06/21 14:40	05/07/21 16:40
50286949005	MW-10D	Water	05/06/21 13:45	05/07/21 16:40
50286949006	MW-13S	Water	05/06/21 13:22	05/07/21 16:40
50286949007	MW-13D	Water	05/06/21 14:10	05/07/21 16:40
50286949008	MW-15S	Water	05/06/21 12:30	05/07/21 16:40
50286949009	MW-15I	Water	05/06/21 11:30	05/07/21 16:40
50286949010	MW-15D	Water	05/06/21 10:15	05/07/21 16:40
50286949011	MW-15D MS	Water	05/06/21 10:15	05/07/21 16:40
50286949012	MW-15D MSD	Water	05/06/21 10:15	05/07/21 16:40
50286949013	DUP 2	Water	05/06/21 08:00	05/07/21 16:40
50286949014	Field Blank 1	Water	05/06/21 14:20	05/07/21 16:40

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50286949001	MW-5S	EPA 9056	RMR	3	PASI-I		
		EPA 6010	JPK	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	DMT	6	PASI-I		
		EPA 7470	ILP	1	PASI-I		
		EPA 903.1	SLC	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	HCF	3	PASI-I		
		SM 2540C	ZM	1	PASI-I		
		SM 4500-H+B	WDB	1	PASI-I		
		SM 4500-S2-D	SWJ	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	SWJ	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50286949002	MW-7S	EPA 9056	RMR	3	PASI-I
				EPA 6010	JPK	15	PASI-I
EPA 6010	JPK			2	PASI-I		
EPA 6020	CAW, DMT			6	PASI-I		
EPA 7470	ILP			1	PASI-I		
EPA 903.1	SLC			1	PASI-PA		
EPA 904.0	VAL			1	PASI-PA		
Total Radium Calculation	RMK			1	PASI-PA		
SM 2320B	HCF			3	PASI-I		
SM 2540C	ZM			1	PASI-I		
SM 4500-H+B	WDB			1	PASI-I		
SM 4500-S2-D	SWJ			1	PASI-I		
HACH 8146	SWJ			1	PASI-I		
EPA 353.2	SWJ			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50286949003	MW-7D			EPA 9056	RMR	3	PASI-I
				EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286949004	MW-10S	EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
EPA 904.0	VAL	1	PASI-PA		
Total Radium Calculation	RMK	1	PASI-PA		
SM 2320B	HCF	3	PASI-I		
SM 2540C	ZM	1	PASI-I		
SM 4500-H+B	WDB	1	PASI-I		
SM 4500-S2-D	SWJ	1	PASI-I		
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286949005	MW-10D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286949006	MW-13S	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
HACH 8146	SWJ	1	PASI-I		
EPA 353.2	SWJ	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286949007	MW-13D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50286949008	MW-15S	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50286949009	MW-15I	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286949010	MW-15D	HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50286949011	MW-15D MS	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50286949012	MW-15D MSD	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50286949013	DUP 2	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50286949014	Field Blank 1	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6020	CAW, DMT	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949001	MW-5S					
EPA 9056	Chloride	270	mg/L	25.0	05/23/21 13:39	
EPA 9056	Fluoride	1.7	mg/L	0.10	05/23/21 13:23	
EPA 9056	Sulfate	431	mg/L	25.0	05/23/21 13:39	
EPA 6010	Aluminum	272	ug/L	200	05/15/21 02:10	
EPA 6010	Barium	35.0	ug/L	10.0	05/15/21 02:10	
EPA 6010	Boron	2130	ug/L	100	05/15/21 02:10	
EPA 6010	Calcium	175000	ug/L	1000	05/15/21 02:10	
EPA 6010	Iron	810	ug/L	100	05/15/21 02:10	
EPA 6010	Lithium	42.2	ug/L	20.0	05/15/21 02:10	
EPA 6010	Magnesium	52200	ug/L	1000	05/15/21 02:10	
EPA 6010	Manganese	1000	ug/L	10.0	05/15/21 02:10	
EPA 6010	Molybdenum	131	ug/L	10.0	05/15/21 02:10	
EPA 6010	Potassium	7520	ug/L	1000	05/15/21 02:10	
EPA 6010	Silica	15800	ug/L	450	05/15/21 02:10	N2
EPA 6010	Sodium	189000	ug/L	1000	05/15/21 02:10	
EPA 6010	Manganese, Dissolved	1010	ug/L	10.0	05/19/21 03:36	
EPA 6010	Molybdenum, Dissolved	129	ug/L	10.0	05/19/21 03:36	
EPA 6020	Cobalt	1.3	ug/L	1.0	05/13/21 05:46	
EPA 903.1	Radium-226	0.0789 ± 0.464 (0.948) C:NA T:95%	pCi/L		06/11/21 14:18	
EPA 904.0	Radium-228	1.10 ± 0.484 (0.817) C:69% T:91%	pCi/L		06/11/21 11:17	
Total Radium Calculation	Total Radium	1.18 ± 0.948 (1.77)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	298	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	298	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1330	mg/L	20.0	05/11/21 13:54	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/10/21 14:12	H3
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	05/18/21 01:06	
50286949002	MW-7S					
EPA 9056	Chloride	223	mg/L	25.0	05/23/21 14:12	
EPA 9056	Fluoride	0.51	mg/L	0.10	05/23/21 13:55	
EPA 9056	Sulfate	566	mg/L	25.0	05/23/21 14:12	
EPA 6010	Aluminum	1020	ug/L	200	05/15/21 02:13	
EPA 6010	Barium	45.3	ug/L	10.0	05/15/21 02:13	
EPA 6010	Boron	13000	ug/L	100	05/15/21 02:13	
EPA 6010	Calcium	188000	ug/L	1000	05/15/21 02:13	
EPA 6010	Iron	4400	ug/L	100	05/15/21 02:13	
EPA 6010	Lithium	81.7	ug/L	20.0	05/15/21 02:13	
EPA 6010	Magnesium	44500	ug/L	1000	05/15/21 02:13	
EPA 6010	Manganese	419	ug/L	10.0	05/15/21 02:13	
EPA 6010	Molybdenum	676	ug/L	10.0	05/15/21 02:13	
EPA 6010	Potassium	14200	ug/L	1000	05/15/21 02:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286949002	MW-7S					
EPA 6010	Silica	18300	ug/L	450	05/15/21 02:13	N2
EPA 6010	Sodium	183000	ug/L	1000	05/15/21 02:13	
EPA 6010	Manganese, Dissolved	385	ug/L	10.0	05/19/21 03:38	
EPA 6010	Molybdenum, Dissolved	642	ug/L	10.0	05/19/21 03:38	
EPA 6020	Arsenic	419	ug/L	5.0	05/14/21 03:58	
EPA 6020	Cobalt	1.5	ug/L	1.0	05/13/21 05:51	
EPA 903.1	Radium-226	0.151 ± 0.344 (0.204)	pCi/L		06/11/21 14:18	
EPA 904.0	Radium-228	C:NA T:95% 1.38 ± 0.514 (0.780)	pCi/L		06/11/21 11:18	
		C:69% T:91%				
Total Radium Calculation	Total Radium	1.53 ± 0.858 (0.984)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	236	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	236	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1360	mg/L	20.0	05/11/21 13:54	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/10/21 13:47	H3
EPA 365.1	Phosphate as P04	0.91	mg/L	0.15	05/17/21 09:20	
50286949003	MW-7D					
EPA 9056	Chloride	219	mg/L	25.0	05/23/21 14:44	
EPA 9056	Fluoride	0.36	mg/L	0.10	05/23/21 14:28	
EPA 9056	Sulfate	628	mg/L	25.0	05/23/21 14:44	
EPA 6010	Barium	41.8	ug/L	10.0	05/15/21 02:15	
EPA 6010	Boron	13900	ug/L	100	05/15/21 02:15	
EPA 6010	Cadmium	2.1	ug/L	2.0	05/15/21 02:15	
EPA 6010	Calcium	209000	ug/L	2000	05/15/21 03:14	
EPA 6010	Iron	2300	ug/L	100	05/15/21 02:15	
EPA 6010	Lithium	96.9	ug/L	20.0	05/15/21 02:15	
EPA 6010	Magnesium	44600	ug/L	1000	05/15/21 02:15	
EPA 6010	Manganese	494	ug/L	10.0	05/15/21 02:15	
EPA 6010	Molybdenum	704	ug/L	10.0	05/15/21 02:15	
EPA 6010	Potassium	15300	ug/L	1000	05/15/21 02:15	
EPA 6010	Silica	13600	ug/L	450	05/15/21 02:15	N2
EPA 6010	Sodium	187000	ug/L	1000	05/15/21 02:15	
EPA 6010	Manganese, Dissolved	476	ug/L	10.0	05/19/21 03:40	
EPA 6010	Molybdenum, Dissolved	676	ug/L	10.0	05/19/21 03:40	
EPA 6020	Arsenic	476	ug/L	5.0	05/14/21 04:02	
EPA 903.1	Radium-226	0.743 ± 0.633 (0.889)	pCi/L		06/11/21 14:44	
		C:NA T:101%				

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949003	MW-7D					
EPA 904.0	Radium-228	0.711 ± 0.385 (0.692) C:69% T:94%	pCi/L		06/11/21 11:18	
Total Radium Calculation	Total Radium	1.45 ± 1.02 (1.58)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	223	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	223	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1480	mg/L	20.0	05/11/21 13:55	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/10/21 13:49	H3
EPA 365.1	Phosphate as P04	0.91	mg/L	0.15	05/17/21 09:20	
50286949004	MW-10S					
EPA 9056	Chloride	356	mg/L	25.0	05/23/21 15:17	
EPA 9056	Fluoride	2.5	mg/L	0.10	05/23/21 15:01	
EPA 9056	Sulfate	537	mg/L	25.0	05/23/21 15:17	
EPA 6010	Barium	87.8	ug/L	10.0	05/15/21 02:17	
EPA 6010	Boron	1800	ug/L	100	05/15/21 02:17	
EPA 6010	Calcium	235000	ug/L	2000	05/15/21 03:16	
EPA 6010	Iron	1050	ug/L	100	05/15/21 02:17	
EPA 6010	Lithium	45.3	ug/L	20.0	05/15/21 02:17	
EPA 6010	Magnesium	44100	ug/L	1000	05/15/21 02:17	
EPA 6010	Manganese	436	ug/L	10.0	05/15/21 02:17	
EPA 6010	Molybdenum	72.2	ug/L	10.0	05/15/21 02:17	
EPA 6010	Potassium	10800	ug/L	1000	05/15/21 02:17	
EPA 6010	Silica	14000	ug/L	450	05/15/21 02:17	N2
EPA 6010	Sodium	213000	ug/L	2000	05/15/21 03:16	
EPA 6010	Manganese, Dissolved	421	ug/L	10.0	05/19/21 03:43	
EPA 6010	Molybdenum, Dissolved	70.3	ug/L	10.0	05/19/21 03:43	
EPA 6020	Arsenic	413	ug/L	5.0	05/14/21 04:07	
EPA 903.1	Radium-226	0.0696 ± 0.696 (1.32) C:NA T:88%	pCi/L		06/11/21 14:58	
EPA 904.0	Radium-228	0.717 ± 0.386 (0.679) C:66% T:84%	pCi/L		06/11/21 11:14	
Total Radium Calculation	Total Radium	0.787 ± 1.08 (2.00)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	284	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	284	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1520	mg/L	40.0	05/11/21 13:55	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/11/21 09:36	H3
EPA 365.1	Phosphate as P04	1.4	mg/L	0.15	05/17/21 09:21	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	05/18/21 01:51	
50286949005	MW-10D					
EPA 9056	Chloride	258	mg/L	25.0	05/23/21 16:39	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949005	MW-10D					
EPA 9056	Fluoride	2.6	mg/L	0.10	05/23/21 16:22	
EPA 9056	Sulfate	428	mg/L	25.0	05/23/21 16:39	
EPA 6010	Barium	26.4	ug/L	10.0	05/15/21 02:19	
EPA 6010	Boron	3540	ug/L	100	05/15/21 02:19	
EPA 6010	Calcium	163000	ug/L	1000	05/15/21 02:19	
EPA 6010	Iron	1660	ug/L	100	05/15/21 02:19	
EPA 6010	Lithium	49.8	ug/L	20.0	05/15/21 02:19	
EPA 6010	Magnesium	57200	ug/L	1000	05/15/21 02:19	
EPA 6010	Manganese	145	ug/L	10.0	05/15/21 02:19	
EPA 6010	Molybdenum	97.2	ug/L	10.0	05/15/21 02:19	
EPA 6010	Potassium	11100	ug/L	1000	05/15/21 02:19	
EPA 6010	Silica	14900	ug/L	450	05/15/21 02:19	N2
EPA 6010	Sodium	193000	ug/L	1000	05/15/21 02:19	
EPA 6010	Manganese, Dissolved	139	ug/L	10.0	05/19/21 03:45	
EPA 6010	Molybdenum, Dissolved	93.6	ug/L	10.0	05/19/21 03:45	
EPA 6020	Arsenic	250	ug/L	2.0	05/14/21 04:12	
EPA 903.1	Radium-226	0.562 ± 0.639	pCi/L		06/11/21 14:44	
		(1.01) C:NA				
		T:90%				
EPA 904.0	Radium-228	1.38 ± 0.515	pCi/L		06/11/21 11:18	
		(0.783)				
		C:67%				
		T:92%				
Total Radium Calculation	Total Radium	1.94 ± 1.15 (1.79)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	297	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	297	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1310	mg/L	20.0	05/11/21 13:55	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/11/21 09:20	H3
EPA 365.1	Phosphate as P04	0.33	mg/L	0.15	05/17/21 09:21	
50286949006	MW-13S					
EPA 9056	Chloride	220	mg/L	25.0	05/23/21 17:11	
EPA 9056	Fluoride	0.92	mg/L	0.10	05/23/21 16:55	
EPA 9056	Sulfate	388	mg/L	25.0	05/23/21 17:11	
EPA 6010	Barium	34.8	ug/L	10.0	05/15/21 02:22	
EPA 6010	Boron	9740	ug/L	100	05/15/21 02:22	
EPA 6010	Calcium	145000	ug/L	1000	05/15/21 02:22	
EPA 6010	Iron	1280	ug/L	100	05/15/21 02:22	
EPA 6010	Lithium	62.5	ug/L	20.0	05/15/21 02:22	
EPA 6010	Magnesium	43400	ug/L	1000	05/15/21 02:22	
EPA 6010	Manganese	353	ug/L	10.0	05/15/21 02:22	
EPA 6010	Molybdenum	692	ug/L	10.0	05/15/21 02:22	
EPA 6010	Potassium	11300	ug/L	1000	05/15/21 02:22	
EPA 6010	Silica	14800	ug/L	450	05/15/21 02:22	N2
EPA 6010	Sodium	182000	ug/L	1000	05/15/21 02:22	
EPA 6010	Manganese, Dissolved	347	ug/L	10.0	05/19/21 03:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949006	MW-13S					
EPA 6010	Molybdenum, Dissolved	668	ug/L	10.0	05/19/21 03:51	
EPA 6020	Arsenic	321	ug/L	2.0	05/14/21 04:35	
EPA 903.1	Radium-226	0.808 ± 0.640 (0.870)	pCi/L		06/11/21 14:44	
EPA 904.0	Radium-228	C:NA T:94% 0.604 ± 0.435 (0.859)	pCi/L		06/11/21 11:18	
		C:71% T:88%				
Total Radium Calculation	Total Radium	1.41 ± 1.08 (1.73)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	267	mg/L	2.0	05/12/21 15:31	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	267	mg/L	2.0	05/12/21 15:31	
SM 2540C	Total Dissolved Solids	1220	mg/L	20.0	05/11/21 13:55	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/11/21 09:19	H3
EPA 365.1	Phosphate as P04	0.37	mg/L	0.15	05/17/21 09:23	
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	05/18/21 16:06	
SM 5310C	Dissolved Organic Carbon	2.3	mg/L	1.0	05/18/21 02:38	
50286949007	MW-13D					
EPA 9056	Chloride	221	mg/L	25.0	05/23/21 17:44	
EPA 9056	Fluoride	0.60	mg/L	0.10	05/23/21 17:28	
EPA 9056	Sulfate	474	mg/L	25.0	05/23/21 17:44	
EPA 6010	Aluminum	1940	ug/L	200	05/15/21 02:24	
EPA 6010	Barium	54.1	ug/L	10.0	05/15/21 02:24	
EPA 6010	Boron	11900	ug/L	100	05/15/21 02:24	
EPA 6010	Calcium	158000	ug/L	1000	05/15/21 02:24	
EPA 6010	Iron	4190	ug/L	100	05/15/21 02:24	
EPA 6010	Lithium	72.7	ug/L	20.0	05/15/21 02:24	
EPA 6010	Magnesium	46000	ug/L	1000	05/15/21 02:24	
EPA 6010	Manganese	199	ug/L	10.0	05/15/21 02:24	
EPA 6010	Molybdenum	762	ug/L	10.0	05/15/21 02:24	
EPA 6010	Potassium	13800	ug/L	1000	05/15/21 02:24	
EPA 6010	Silica	22400	ug/L	450	05/15/21 02:24	N2
EPA 6010	Sodium	191000	ug/L	1000	05/15/21 02:24	
EPA 6010	Manganese, Dissolved	145	ug/L	10.0	05/19/21 03:53	
EPA 6010	Molybdenum, Dissolved	735	ug/L	10.0	05/19/21 03:53	
EPA 6020	Arsenic	242	ug/L	2.0	05/14/21 04:39	
EPA 6020	Cobalt	1.1	ug/L	1.0	05/14/21 09:23	
EPA 903.1	Radium-226	0.425 ± 0.688 (1.20) C:NA	pCi/L		06/11/21 14:44	
EPA 904.0	Radium-228	T:98% 1.34 ± 0.480 (0.702)	pCi/L		06/11/21 11:18	
		C:73% T:89%				

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949007	MW-13D					
Total Radium Calculation	Total Radium	1.77 ± 1.17 (1.90)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	229	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	229	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	1290	mg/L	20.0	05/11/21 13:56	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/11/21 09:23	H3
EPA 365.1	Phosphate as P04	0.41	mg/L	0.15	05/17/21 09:23	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	05/18/21 02:50	
50286949008	MW-15S					
EPA 9056	Chloride	39.6	mg/L	2.5	05/23/21 18:17	
EPA 9056	Sulfate	46.1	mg/L	2.5	05/23/21 18:17	
EPA 6010	Aluminum	208	ug/L	200	05/15/21 02:26	
EPA 6010	Barium	51.8	ug/L	10.0	05/15/21 02:26	
EPA 6010	Boron	128	ug/L	100	05/15/21 02:26	
EPA 6010	Calcium	102000	ug/L	1000	05/15/21 02:26	
EPA 6010	Iron	499	ug/L	100	05/15/21 02:26	
EPA 6010	Magnesium	26200	ug/L	1000	05/15/21 02:26	
EPA 6010	Manganese	40.5	ug/L	10.0	05/15/21 02:26	
EPA 6010	Potassium	1680	ug/L	1000	05/15/21 02:26	
EPA 6010	Silica	11700	ug/L	450	05/15/21 02:26	N2
EPA 6010	Sodium	26800	ug/L	1000	05/15/21 02:26	
EPA 903.1	Radium-226	0.356 ± 0.429 (0.654)	pCi/L		06/11/21 14:44	
EPA 904.0	Radium-228	C:NA T:94% 0.102 ± 0.311 (0.698) C:74% T:89%	pCi/L		06/11/21 11:18	
Total Radium Calculation	Total Radium	0.458 ± 0.740 (1.35)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	310	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	310	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	458	mg/L	10.0	05/11/21 13:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/11/21 09:16	H3
EPA 353.2	Nitrogen, Nitrate	3.4	mg/L	0.10	05/08/21 07:35	
50286949009	MW-15I					
EPA 9056	Chloride	17.5	mg/L	2.5	05/23/21 19:22	
EPA 9056	Sulfate	37.3	mg/L	2.5	05/23/21 19:22	
EPA 6010	Barium	67.4	ug/L	10.0	05/15/21 02:29	
EPA 6010	Boron	140	ug/L	100	05/15/21 02:29	
EPA 6010	Calcium	104000	ug/L	1000	05/15/21 02:29	
EPA 6010	Magnesium	26900	ug/L	1000	05/15/21 02:29	
EPA 6010	Manganese	13.9	ug/L	10.0	05/15/21 02:29	
EPA 6010	Potassium	1440	ug/L	1000	05/15/21 02:29	
EPA 6010	Silica	12600	ug/L	450	05/15/21 02:29	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949009	MW-15I					
EPA 6010	Sodium	15000	ug/L	1000	05/15/21 02:29	
EPA 6010	Manganese, Dissolved	10.5	ug/L	10.0	05/19/21 03:57	
EPA 6020	Selenium	1.7	ug/L	1.0	05/13/21 06:41	
EPA 903.1	Radium-226	0.175 ± 0.541 (1.05) C:NA T:88%	pCi/L		06/11/21 14:44	
EPA 904.0	Radium-228	0.741 ± 0.418 (0.766) C:70% T:88%	pCi/L		06/11/21 11:18	
Total Radium Calculation	Total Radium	0.916 ± 0.959 (1.82)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	313	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	313	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	420	mg/L	10.0	05/11/21 13:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/11/21 09:15	H3
EPA 353.2	Nitrogen, Nitrate	8.3	mg/L	0.50	05/08/21 07:29	
50286949010	MW-15D					
EPA 9056	Chloride	29.9	mg/L	2.5	05/23/21 19:54	
EPA 9056	Sulfate	66.6	mg/L	2.5	05/23/21 19:54	
EPA 6010	Barium	68.9	ug/L	10.0	05/15/21 02:31	
EPA 6010	Boron	152	ug/L	100	05/15/21 02:31	
EPA 6010	Calcium	102000	ug/L	1000	05/15/21 02:31	
EPA 6010	Iron	1150	ug/L	100	05/15/21 02:31	
EPA 6010	Magnesium	29500	ug/L	1000	05/15/21 02:31	
EPA 6010	Manganese	113	ug/L	10.0	05/15/21 02:31	
EPA 6010	Potassium	2080	ug/L	1000	05/15/21 02:31	
EPA 6010	Silica	12000	ug/L	450	05/15/21 02:31	N2
EPA 6010	Sodium	19400	ug/L	1000	05/15/21 02:31	
EPA 6010	Manganese, Dissolved	118	ug/L	10.0	05/19/21 03:59	
EPA 6020	Arsenic	1.1	ug/L	1.0	05/13/21 06:46	
EPA 903.1	Radium-226	1.01 ± 0.738 (1.02) C:NA T:86%	pCi/L		06/11/21 14:18	
EPA 904.0	Radium-228	0.731 ± 0.433 (0.807) C:69% T:85%	pCi/L		06/11/21 11:17	
Total Radium Calculation	Total Radium	1.74 ± 1.17 (1.83)	pCi/L		06/14/21 17:55	
SM 2320B	Alkalinity, Total as CaCO3	316	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	316	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	436	mg/L	10.0	05/11/21 13:57	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/11/21 09:13	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286949011	MW-15D MS					
EPA 903.1	Radium-226	69.41 %REC ± NA (NA) C:NA T:NA	pCi/L		06/11/21 15:12	1d
EPA 904.0	Radium-228	100.25 %REC ± NA (NA) C:NA T:NA	pCi/L		06/11/21 11:17	
50286949012	MW-15D MSD					
EPA 903.1	Radium-226	93.62 %REC 29.70 RPD ± NA (NA) C:NA T:NA	pCi/L		06/11/21 15:12	
EPA 904.0	Radium-228	107.64 %REC 7.11 RPD ± NA (NA) C:NA T:NA	pCi/L		06/11/21 11:18	
50286949013	DUP 2					
EPA 9056	Chloride	217	mg/L	25.0	05/23/21 21:32	
EPA 9056	Fluoride	0.36	mg/L	0.10	05/23/21 21:16	
EPA 9056	Sulfate	643	mg/L	25.0	05/23/21 21:32	
EPA 6010	Aluminum	211	ug/L	200	05/15/21 02:48	
EPA 6010	Barium	41.9	ug/L	10.0	05/15/21 02:48	
EPA 6010	Boron	14000	ug/L	100	05/15/21 02:48	
EPA 6010	Cadmium	2.1	ug/L	2.0	05/15/21 02:48	
EPA 6010	Calcium	213000	ug/L	2000	05/15/21 03:20	
EPA 6010	Iron	2300	ug/L	100	05/15/21 02:48	
EPA 6010	Lithium	96.6	ug/L	20.0	05/15/21 02:48	
EPA 6010	Magnesium	44600	ug/L	1000	05/15/21 02:48	
EPA 6010	Manganese	495	ug/L	10.0	05/15/21 02:48	
EPA 6010	Molybdenum	705	ug/L	10.0	05/15/21 02:48	
EPA 6010	Potassium	15300	ug/L	1000	05/15/21 02:48	
EPA 6010	Silica	13700	ug/L	450	05/15/21 02:48	N2
EPA 6010	Sodium	187000	ug/L	1000	05/15/21 02:48	
EPA 6010	Manganese, Dissolved	474	ug/L	10.0	05/19/21 04:09	
EPA 6010	Molybdenum, Dissolved	674	ug/L	10.0	05/19/21 04:09	
EPA 6020	Arsenic	476	ug/L	5.0	05/14/21 10:38	
EPA 903.1	Radium-226	0.000 ± 0.544 (1.15) C:NA T:96%	pCi/L		06/11/21 14:18	
EPA 904.0	Radium-228	1.34 ± 0.512 (0.792) C:70% T:88%	pCi/L		06/11/21 11:17	
Total Radium Calculation	Total Radium	1.34 ± 1.06 (1.94)	pCi/L		06/14/21 17:55	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50286949013	DUP 2					
SM 2320B	Alkalinity, Total as CaCO ₃	220	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity,Bicarbonate (CaCO ₃)	220	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	1440	mg/L	20.0	05/11/21 13:57	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/11/21 09:11	H3
EPA 365.1	Phosphate as P04	0.88	mg/L	0.15	05/18/21 17:21	
50286949014	Field Blank 1					
EPA 903.1	Radium-226	0.371 ± 0.516 (0.862) C:NA T:96%	pCi/L		06/11/21 14:44	
EPA 904.0	Radium-228	0.485 ± 0.366 (0.715) C:71% T:84%	pCi/L		06/11/21 11:18	
Total Radium Calculation	Total Radium	0.856 ± 0.882 (1.58)	pCi/L		06/14/21 17:55	
SM 4500-H+B	pH at 25 Degrees C	6.2	Std. Units	0.10	05/11/21 09:32	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-5S	Lab ID: 50286949001	Collected: 05/06/21 09:52	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	270	mg/L	25.0	100		05/23/21 13:39	16887-00-6	
Fluoride	1.7	mg/L	0.10	1		05/23/21 13:23	16984-48-8	
Sulfate	431	mg/L	25.0	100		05/23/21 13:39	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	272	ug/L	200	1	05/14/21 13:28	05/15/21 02:10	7429-90-5	
Barium	35.0	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:10	7440-39-3	
Boron	2130	ug/L	100	1	05/14/21 13:28	05/15/21 02:10	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:10	7440-43-9	
Calcium	175000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:10	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:10	7440-47-3	
Iron	810	ug/L	100	1	05/14/21 13:28	05/15/21 02:10	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:10	7439-92-1	
Lithium	42.2	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:10	7439-93-2	
Magnesium	52200	ug/L	1000	1	05/14/21 13:28	05/15/21 02:10	7439-95-4	
Manganese	1000	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:10	7439-96-5	
Molybdenum	131	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:10	7439-98-7	
Potassium	7520	ug/L	1000	1	05/14/21 13:28	05/15/21 02:10	7440-09-7	
Silica	15800	ug/L	450	1	05/14/21 13:28	05/15/21 02:10	7631-86-9	N2
Sodium	189000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:10	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	1010	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:36	7439-96-5	
Molybdenum, Dissolved	129	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:36	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:46	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:46	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 05:46	7440-41-7	
Cobalt	1.3	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:46	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:46	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:02	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	298	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Bicarbonate (CaCO3)	298	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-5S	Lab ID: 50286949001	Collected: 05/06/21 09:52	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1330	mg/L	20.0	1		05/11/21 13:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/10/21 14:12		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:35		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:13	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:13	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 14:24	05/14/21 11:11		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 14:54	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.5	mg/L	1.0	1		05/18/21 01:06		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7S	Lab ID: 50286949002	Collected: 05/06/21 11:15	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	223	mg/L	25.0	100		05/23/21 14:12	16887-00-6	
Fluoride	0.51	mg/L	0.10	1		05/23/21 13:55	16984-48-8	
Sulfate	566	mg/L	25.0	100		05/23/21 14:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	1020	ug/L	200	1	05/14/21 13:28	05/15/21 02:13	7429-90-5	
Barium	45.3	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:13	7440-39-3	
Boron	13000	ug/L	100	1	05/14/21 13:28	05/15/21 02:13	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:13	7440-43-9	
Calcium	188000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:13	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:13	7440-47-3	
Iron	4400	ug/L	100	1	05/14/21 13:28	05/15/21 02:13	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:13	7439-92-1	
Lithium	81.7	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:13	7439-93-2	
Magnesium	44500	ug/L	1000	1	05/14/21 13:28	05/15/21 02:13	7439-95-4	
Manganese	419	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:13	7439-96-5	
Molybdenum	676	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:13	7439-98-7	
Potassium	14200	ug/L	1000	1	05/14/21 13:28	05/15/21 02:13	7440-09-7	
Silica	18300	ug/L	450	1	05/14/21 13:28	05/15/21 02:13	7631-86-9	N2
Sodium	183000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:13	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	385	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:38	7439-96-5	
Molybdenum, Dissolved	642	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:38	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:51	7440-36-0	
Arsenic	419	ug/L	5.0	5	05/12/21 08:30	05/14/21 03:58	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 05:51	7440-41-7	
Cobalt	1.5	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:51	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:51	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:51	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:05	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	236	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Bicarbonate (CaCO3)	236	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7S	Lab ID: 50286949002	Collected: 05/06/21 11:15	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1360	mg/L	20.0	1		05/11/21 13:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/10/21 13:47		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:35		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:20	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:20	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.91	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:20		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 15:08	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 01:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7D	Lab ID: 50286949003	Collected: 05/06/21 12:12	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	219	mg/L	25.0	100		05/23/21 14:44	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		05/23/21 14:28	16984-48-8	
Sulfate	628	mg/L	25.0	100		05/23/21 14:44	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:15	7429-90-5	
Barium	41.8	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:15	7440-39-3	
Boron	13900	ug/L	100	1	05/14/21 13:28	05/15/21 02:15	7440-42-8	
Cadmium	2.1	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:15	7440-43-9	
Calcium	209000	ug/L	2000	2	05/14/21 13:28	05/15/21 03:14	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:15	7440-47-3	
Iron	2300	ug/L	100	1	05/14/21 13:28	05/15/21 02:15	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:15	7439-92-1	
Lithium	96.9	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:15	7439-93-2	
Magnesium	44600	ug/L	1000	1	05/14/21 13:28	05/15/21 02:15	7439-95-4	
Manganese	494	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:15	7439-96-5	
Molybdenum	704	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:15	7439-98-7	
Potassium	15300	ug/L	1000	1	05/14/21 13:28	05/15/21 02:15	7440-09-7	
Silica	13600	ug/L	450	1	05/14/21 13:28	05/15/21 02:15	7631-86-9	N2
Sodium	187000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:15	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	476	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:40	7439-96-5	
Molybdenum, Dissolved	676	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:40	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:04	7440-36-0	
Arsenic	476	ug/L	5.0	5	05/12/21 08:30	05/14/21 04:02	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:04	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:04	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:04	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:04	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:07	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	223	mg/L	2.0	1		05/12/21 15:31		
Alkalinity, Bicarbonate (CaCO3)	223	mg/L	2.0	1		05/12/21 15:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7D	Lab ID: 50286949003	Collected: 05/06/21 12:12	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1480	mg/L	20.0	1		05/11/21 13:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/10/21 13:49		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:35		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:33	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:33	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.91	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:20		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 15:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 01:38		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10S	Lab ID: 50286949004	Collected: 05/06/21 14:40	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	356	mg/L	25.0	100		05/23/21 15:17	16887-00-6	
Fluoride	2.5	mg/L	0.10	1		05/23/21 15:01	16984-48-8	
Sulfate	537	mg/L	25.0	100		05/23/21 15:17	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:17	7429-90-5	
Barium	87.8	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:17	7440-39-3	
Boron	1800	ug/L	100	1	05/14/21 13:28	05/15/21 02:17	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:17	7440-43-9	
Calcium	235000	ug/L	2000	2	05/14/21 13:28	05/15/21 03:16	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:17	7440-47-3	
Iron	1050	ug/L	100	1	05/14/21 13:28	05/15/21 02:17	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:17	7439-92-1	
Lithium	45.3	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:17	7439-93-2	
Magnesium	44100	ug/L	1000	1	05/14/21 13:28	05/15/21 02:17	7439-95-4	
Manganese	436	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:17	7439-96-5	
Molybdenum	72.2	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:17	7439-98-7	
Potassium	10800	ug/L	1000	1	05/14/21 13:28	05/15/21 02:17	7440-09-7	
Silica	14000	ug/L	450	1	05/14/21 13:28	05/15/21 02:17	7631-86-9	N2
Sodium	213000	ug/L	2000	2	05/14/21 13:28	05/15/21 03:16	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	421	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:43	7439-96-5	
Molybdenum, Dissolved	70.3	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:43	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:09	7440-36-0	
Arsenic	413	ug/L	5.0	5	05/12/21 08:30	05/14/21 04:07	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:09	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:09	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:09	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:09	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:09	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	284	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Bicarbonate (CaCO3)	284	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10S	Lab ID: 50286949004	Collected: 05/06/21 14:40	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1520	mg/L	40.0	1		05/11/21 13:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/11/21 09:36		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:36		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:54	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:54	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	1.4	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:21		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 15:40	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.1	mg/L	1.0	1		05/18/21 01:51		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10D	Lab ID: 50286949005	Collected: 05/06/21 13:45	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	258	mg/L	25.0	100		05/23/21 16:39	16887-00-6	
Fluoride	2.6	mg/L	0.10	1		05/23/21 16:22	16984-48-8	
Sulfate	428	mg/L	25.0	100		05/23/21 16:39	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:19	7429-90-5	
Barium	26.4	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:19	7440-39-3	
Boron	3540	ug/L	100	1	05/14/21 13:28	05/15/21 02:19	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:19	7440-43-9	
Calcium	163000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:19	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:19	7440-47-3	
Iron	1660	ug/L	100	1	05/14/21 13:28	05/15/21 02:19	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:19	7439-92-1	
Lithium	49.8	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:19	7439-93-2	
Magnesium	57200	ug/L	1000	1	05/14/21 13:28	05/15/21 02:19	7439-95-4	
Manganese	145	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:19	7439-96-5	
Molybdenum	97.2	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:19	7439-98-7	
Potassium	11100	ug/L	1000	1	05/14/21 13:28	05/15/21 02:19	7440-09-7	
Silica	14900	ug/L	450	1	05/14/21 13:28	05/15/21 02:19	7631-86-9	N2
Sodium	193000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:19	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	139	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:45	7439-96-5	
Molybdenum, Dissolved	93.6	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:45	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:14	7440-36-0	
Arsenic	250	ug/L	2.0	2	05/12/21 08:30	05/14/21 04:12	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:14	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:14	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:14	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:14	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:12	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	297	mg/L	2.0	1		05/12/21 15:31		
Alkalinity, Bicarbonate (CaCO3)	297	mg/L	2.0	1		05/12/21 15:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10D	Lab ID: 50286949005	Collected: 05/06/21 13:45	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1310	mg/L	20.0	1		05/11/21 13:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/11/21 09:20		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:36		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:43	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:43	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.33	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:21		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 15:54	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 02:25		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13S	Lab ID: 50286949006	Collected: 05/06/21 13:22	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	220	mg/L	25.0	100		05/23/21 17:11	16887-00-6	
Fluoride	0.92	mg/L	0.10	1		05/23/21 16:55	16984-48-8	
Sulfate	388	mg/L	25.0	100		05/23/21 17:11	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:22	7429-90-5	
Barium	34.8	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:22	7440-39-3	
Boron	9740	ug/L	100	1	05/14/21 13:28	05/15/21 02:22	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:22	7440-43-9	
Calcium	145000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:22	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:22	7440-47-3	
Iron	1280	ug/L	100	1	05/14/21 13:28	05/15/21 02:22	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:22	7439-92-1	
Lithium	62.5	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:22	7439-93-2	
Magnesium	43400	ug/L	1000	1	05/14/21 13:28	05/15/21 02:22	7439-95-4	
Manganese	353	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:22	7439-96-5	
Molybdenum	692	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:22	7439-98-7	
Potassium	11300	ug/L	1000	1	05/14/21 13:28	05/15/21 02:22	7440-09-7	
Silica	14800	ug/L	450	1	05/14/21 13:28	05/15/21 02:22	7631-86-9	N2
Sodium	182000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:22	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	347	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:51	7439-96-5	
Molybdenum, Dissolved	668	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:51	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:18	7440-36-0	
Arsenic	321	ug/L	2.0	2	05/12/21 08:30	05/14/21 04:35	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:18	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:18	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:18	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:18	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:14	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	267	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Bicarbonate (CaCO3)	267	mg/L	2.0	1		05/12/21 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13S	Lab ID: 50286949006	Collected: 05/06/21 13:22	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1220	mg/L	20.0	1		05/11/21 13:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/11/21 09:19		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:36		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:41	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:41	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.37	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:23		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.5	mg/L	1.0	1		05/18/21 16:06	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.3	mg/L	1.0	1		05/18/21 02:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13D	Lab ID: 50286949007	Collected: 05/06/21 14:10	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	221	mg/L	25.0	100		05/23/21 17:44	16887-00-6	
Fluoride	0.60	mg/L	0.10	1		05/23/21 17:28	16984-48-8	
Sulfate	474	mg/L	25.0	100		05/23/21 17:44	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	1940	ug/L	200	1	05/14/21 13:28	05/15/21 02:24	7429-90-5	
Barium	54.1	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:24	7440-39-3	
Boron	11900	ug/L	100	1	05/14/21 13:28	05/15/21 02:24	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:24	7440-43-9	
Calcium	158000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:24	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:24	7440-47-3	
Iron	4190	ug/L	100	1	05/14/21 13:28	05/15/21 02:24	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:24	7439-92-1	
Lithium	72.7	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:24	7439-93-2	
Magnesium	46000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:24	7439-95-4	
Manganese	199	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:24	7439-96-5	
Molybdenum	762	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:24	7439-98-7	
Potassium	13800	ug/L	1000	1	05/14/21 13:28	05/15/21 02:24	7440-09-7	
Silica	22400	ug/L	450	1	05/14/21 13:28	05/15/21 02:24	7631-86-9	N2
Sodium	191000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:24	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	145	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:53	7439-96-5	
Molybdenum, Dissolved	735	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:53	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:23	7440-36-0	
Arsenic	242	ug/L	2.0	2	05/12/21 08:30	05/14/21 04:39	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:23	7440-41-7	
Cobalt	1.1	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:23	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:23	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:23	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:17	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	229	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	229	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13D	Lab ID: 50286949007	Collected: 05/06/21 14:10	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1290	mg/L	20.0	1		05/11/21 13:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/11/21 09:23		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:36		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:46	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:46	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.41	mg/L	0.15	1	05/15/21 15:15	05/17/21 09:23		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 16:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	1		05/18/21 02:50		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15S	Lab ID: 50286949008	Collected: 05/06/21 12:30	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	39.6	mg/L	2.5	10		05/23/21 18:17	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/23/21 18:00	16984-48-8	
Sulfate	46.1	mg/L	2.5	10		05/23/21 18:17	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	208	ug/L	200	1	05/14/21 13:28	05/15/21 02:26	7429-90-5	
Barium	51.8	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:26	7440-39-3	
Boron	128	ug/L	100	1	05/14/21 13:28	05/15/21 02:26	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:26	7440-43-9	
Calcium	102000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:26	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:26	7440-47-3	
Iron	499	ug/L	100	1	05/14/21 13:28	05/15/21 02:26	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:26	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:26	7439-93-2	
Magnesium	26200	ug/L	1000	1	05/14/21 13:28	05/15/21 02:26	7439-95-4	
Manganese	40.5	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:26	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:26	7439-98-7	
Potassium	1680	ug/L	1000	1	05/14/21 13:28	05/15/21 02:26	7440-09-7	
Silica	11700	ug/L	450	1	05/14/21 13:28	05/15/21 02:26	7631-86-9	N2
Sodium	26800	ug/L	1000	1	05/14/21 13:28	05/15/21 02:26	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:55	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:55	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:37	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:37	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:37	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:37	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:37	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:37	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:19	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	310	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	310	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15S	Lab ID: 50286949008	Collected: 05/06/21 12:30	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	458	mg/L	10.0	1		05/11/21 13:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		05/11/21 09:16		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:36		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	3.4	mg/L	0.10	1		05/08/21 07:35	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:35	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 14:24	05/14/21 11:15		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 16:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 03:00		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15I	Lab ID: 50286949009	Collected: 05/06/21 11:30	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	17.5	mg/L	2.5	10		05/23/21 19:22	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/23/21 19:05	16984-48-8	
Sulfate	37.3	mg/L	2.5	10		05/23/21 19:22	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:29	7429-90-5	
Barium	67.4	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:29	7440-39-3	
Boron	140	ug/L	100	1	05/14/21 13:28	05/15/21 02:29	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:29	7440-43-9	
Calcium	104000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:29	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:29	7440-47-3	
Iron	ND	ug/L	100	1	05/14/21 13:28	05/15/21 02:29	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:29	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:29	7439-93-2	
Magnesium	26900	ug/L	1000	1	05/14/21 13:28	05/15/21 02:29	7439-95-4	
Manganese	13.9	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:29	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:29	7439-98-7	
Potassium	1440	ug/L	1000	1	05/14/21 13:28	05/15/21 02:29	7440-09-7	
Silica	12600	ug/L	450	1	05/14/21 13:28	05/15/21 02:29	7631-86-9	N2
Sodium	15000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:29	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	10.5	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:57	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:57	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:41	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:41	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:41	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:41	7440-48-4	
Selenium	1.7	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:41	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:41	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:27	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	313	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	313	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15I	Lab ID: 50286949009	Collected: 05/06/21 11:30	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	420	mg/L	10.0	1		05/11/21 13:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		05/11/21 09:15		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:37		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	8.3	mg/L	0.50	5		05/08/21 07:29	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.50	5		05/08/21 07:29	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 14:24	05/14/21 11:17		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 16:58	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 03:10		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15D	Lab ID: 50286949010	Collected: 05/06/21 10:15	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	29.9	mg/L	2.5	10		05/23/21 19:54	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/23/21 19:38	16984-48-8	
Sulfate	66.6	mg/L	2.5	10		05/23/21 19:54	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:31	7429-90-5	
Barium	68.9	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:31	7440-39-3	
Boron	152	ug/L	100	1	05/14/21 13:28	05/15/21 02:31	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:31	7440-43-9	
Calcium	102000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:31	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:31	7440-47-3	
Iron	1150	ug/L	100	1	05/14/21 13:28	05/15/21 02:31	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:31	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:31	7439-93-2	
Magnesium	29500	ug/L	1000	1	05/14/21 13:28	05/15/21 02:31	7439-95-4	
Manganese	113	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:31	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:31	7439-98-7	
Potassium	2080	ug/L	1000	1	05/14/21 13:28	05/15/21 02:31	7440-09-7	
Silica	12000	ug/L	450	1	05/14/21 13:28	05/15/21 02:31	7631-86-9	N2
Sodium	19400	ug/L	1000	1	05/14/21 13:28	05/15/21 02:31	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	118	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:59	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/17/21 13:21	05/19/21 03:59	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:46	7440-36-0	
Arsenic	1.1	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:46	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 06:46	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 09:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:46	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 06:46	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:29	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	316	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	316	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15D	Lab ID: 50286949010	Collected: 05/06/21 10:15	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	436	mg/L	10.0	1		05/11/21 13:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/11/21 09:13		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:38		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:14	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:14	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 14:24	05/14/21 11:17		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 17:08	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 03:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: DUP 2	Lab ID: 50286949013	Collected: 05/06/21 08:00	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	217	mg/L	25.0	100		05/23/21 21:32	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		05/23/21 21:16	16984-48-8	
Sulfate	643	mg/L	25.0	100		05/23/21 21:32	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	211	ug/L	200	1	05/14/21 13:28	05/15/21 02:48	7429-90-5	
Barium	41.9	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:48	7440-39-3	
Boron	14000	ug/L	100	1	05/14/21 13:28	05/15/21 02:48	7440-42-8	
Cadmium	2.1	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:48	7440-43-9	
Calcium	213000	ug/L	2000	2	05/14/21 13:28	05/15/21 03:20	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:48	7440-47-3	
Iron	2300	ug/L	100	1	05/14/21 13:28	05/15/21 02:48	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:48	7439-92-1	
Lithium	96.6	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:48	7439-93-2	
Magnesium	44600	ug/L	1000	1	05/14/21 13:28	05/15/21 02:48	7439-95-4	
Manganese	495	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:48	7439-96-5	
Molybdenum	705	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:48	7439-98-7	
Potassium	15300	ug/L	1000	1	05/14/21 13:28	05/15/21 02:48	7440-09-7	
Silica	13700	ug/L	450	1	05/14/21 13:28	05/15/21 02:48	7631-86-9	N2
Sodium	187000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:48	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	474	ug/L	10.0	1	05/17/21 13:21	05/19/21 04:09	7439-96-5	
Molybdenum, Dissolved	674	ug/L	10.0	1	05/17/21 13:21	05/19/21 04:09	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:18	7440-36-0	
Arsenic	476	ug/L	5.0	5	05/12/21 08:30	05/14/21 10:38	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 07:18	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 10:19	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:18	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:18	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:36	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	220	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	220	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: DUP 2	Lab ID: 50286949013	Collected: 05/06/21 08:00	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1440	mg/L	20.0	1		05/11/21 13:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/11/21 09:11		H3
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:38		H3,N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:11	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:11	14797-65-0	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.88	mg/L	0.15	1	05/18/21 14:10	05/18/21 17:21		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 17:41	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/18/21 03:55		

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: Field Blank 1	Lab ID: 50286949014	Collected: 05/06/21 14:20	Received: 05/07/21 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		05/23/21 22:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/23/21 22:21	16984-48-8	
Sulfate	ND	mg/L	0.25	1		05/23/21 22:21	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:50	7429-90-5	
Barium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:50	7440-39-3	
Boron	ND	ug/L	100	1	05/14/21 13:28	05/15/21 02:50	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:50	7440-43-9	
Calcium	ND	ug/L	1000	1	05/14/21 13:28	05/15/21 02:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:50	7440-47-3	
Iron	ND	ug/L	100	1	05/14/21 13:28	05/15/21 02:50	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:50	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:50	7439-93-2	
Magnesium	ND	ug/L	1000	1	05/14/21 13:28	05/15/21 02:50	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:50	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:50	7439-98-7	
Potassium	ND	ug/L	1000	1	05/14/21 13:28	05/15/21 02:50	7440-09-7	
Silica	ND	ug/L	450	1	05/14/21 13:28	05/15/21 02:50	7631-86-9	N2
Sodium	ND	ug/L	1000	1	05/14/21 13:28	05/15/21 02:50	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:23	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:23	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/12/21 08:30	05/13/21 07:23	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/14/21 10:24	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:23	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 07:23	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/13/21 10:57	05/14/21 07:39	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	ND	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		05/11/21 13:58		PL

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: Field Blank 1	Lab ID: 50286949014	Collected: 05/06/21 14:20		Received: 05/07/21 16:40		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.2	Std. Units	0.10	1		05/11/21 09:32		H3
4500S2D Sulfide Water								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/11/21 12:09	18496-25-8	
Iron, Ferrous								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:38		H3,N2
353.2 Nitrogen, NO2/NO3 unpres								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:52	14797-65-0	
365.1 Total Phosphorus								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/13/21 14:24	05/14/21 12:58		
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/18/21 17:51	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch:	622295	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2868163 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/23/21 16:06	
Fluoride	mg/L	ND	0.10	05/23/21 16:06	
Sulfate	mg/L	ND	0.25	05/23/21 16:06	

LABORATORY CONTROL SAMPLE: 2868164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868165 2868166

Parameter	Units	50286949010		2868166		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	29.9	12.5	12.5	41.3	41.3	91	91	80-120	0	15
Fluoride	mg/L	ND	0.5	0.5	0.53	0.54	91	93	80-120	2	15
Sulfate	mg/L	66.6	25	25	89.4	89.1	91	90	80-120	0	15

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	619917	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

METHOD BLANK:	2856937	Matrix:	Water
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/14/21 06:57	

LABORATORY CONTROL SAMPLE: 2856938						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856939												2856940	
Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	ND	5	5	5.1	5.0	103	100	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856941												2856942	
Parameter	Units	50286982033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	<0.080	5	5	5.0	4.9	100	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch: 620424 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2859199 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/15/21 02:04	
Barium	ug/L	ND	10.0	05/15/21 02:04	
Boron	ug/L	ND	100	05/15/21 02:04	
Cadmium	ug/L	ND	2.0	05/15/21 02:04	
Calcium	ug/L	ND	1000	05/15/21 02:04	
Chromium	ug/L	ND	10.0	05/15/21 02:04	
Iron	ug/L	ND	100	05/15/21 02:04	
Lead	ug/L	ND	10.0	05/15/21 02:04	
Lithium	ug/L	ND	20.0	05/15/21 02:04	
Magnesium	ug/L	ND	1000	05/15/21 02:04	
Manganese	ug/L	ND	10.0	05/15/21 02:04	
Molybdenum	ug/L	ND	10.0	05/15/21 02:04	
Potassium	ug/L	ND	1000	05/15/21 02:04	
Silica	ug/L	ND	450	05/15/21 02:04	N2
Sodium	ug/L	ND	1000	05/15/21 02:04	

LABORATORY CONTROL SAMPLE: 2859200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	80-120	
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	991	99	80-120	
Cadmium	ug/L	1000	994	99	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Chromium	ug/L	1000	1040	104	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	1000	942	94	80-120	
Lithium	ug/L	1000	996	100	80-120	
Magnesium	ug/L	10000	9440	94	80-120	
Manganese	ug/L	1000	960	96	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9940	99	80-120	
Silica	ug/L	10700	10300	96	80-120	N2
Sodium	ug/L	10000	9890	99	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859201												2859202	
Parameter	Units	50286949010 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
Aluminum	ug/L	ND	10000	10000	9690	9640	97	96	75-125	0	20		
Barium	ug/L	68.9	1000	1000	1080	1070	101	100	75-125	2	20		
Boron	ug/L	152	1000	1000	1150	1120	100	97	75-125	2	20		
Cadmium	ug/L	ND	1000	1000	995	980	100	98	75-125	2	20		
Calcium	ug/L	102000	10000	10000	113000	108000	109	67	75-125	4	20	P6	
Chromium	ug/L	ND	1000	1000	1030	1020	103	102	75-125	1	20		
Iron	ug/L	1150	10000	10000	11000	10900	98	98	75-125	0	20		
Lead	ug/L	ND	1000	1000	908	890	91	89	75-125	2	20		
Lithium	ug/L	ND	1000	1000	1010	994	100	99	75-125	1	20		
Magnesium	ug/L	29500	10000	10000	39100	37800	96	83	75-125	4	20		
Manganese	ug/L	113	1000	1000	1060	1040	94	93	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	1040	1020	103	102	75-125	2	20		
Potassium	ug/L	2080	10000	10000	12000	11800	99	97	75-125	2	20		
Silica	ug/L	12000	10700	10700	22500	22100	98	95		2		N2	
Sodium	ug/L	19400	10000	10000	29600	28600	102	93	75-125	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859203												2859204	
Parameter	Units	50286989001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
Aluminum	ug/L	ND	10000	10000	9510	9430	95	94	75-125	1	20		
Barium	ug/L	25.8	1000	1000	1020	1020	100	99	75-125	0	20		
Boron	ug/L	59.4J	1000	1000	1030	1020	97	96	75-125	1	20		
Cadmium	ug/L	ND	1000	1000	980	977	98	98	75-125	0	20		
Calcium	ug/L	78400	10000	10000	86500	86800	82	84	75-125	0	20		
Chromium	ug/L	ND	1000	1000	1020	1020	102	101	75-125	0	20		
Iron	ug/L	ND	10000	10000	9680	9610	97	96	75-125	1	20		
Lead	ug/L	ND	1000	1000	898	892	90	89	75-125	1	20		
Lithium	ug/L	7.9J	1000	1000	988	984	98	98	75-125	0	20		
Magnesium	ug/L	19400	10000	10000	28200	28200	88	88	75-125	0	20		
Manganese	ug/L	3.1J	1000	1000	929	923	93	92	75-125	1	20		
Molybdenum	ug/L	20.5	1000	1000	1040	1030	102	101	75-125	0	20		
Potassium	ug/L	946J	10000	10000	10800	10700	99	97	75-125	1	20		
Silica	ug/L	19100	10700	10700	28700	29000	90	93		1		N2	
Sodium	ug/L	24300	10000	10000	33700	34000	94	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch: 620254 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013

METHOD BLANK: 2858238 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/19/21 03:34	
Molybdenum, Dissolved	ug/L	ND	10.0	05/19/21 03:34	

LABORATORY CONTROL SAMPLE: 2858239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	952	95	80-120	
Molybdenum, Dissolved	ug/L	1000	998	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858240 2858241

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286949010 Result	Spike Conc.	Spike Conc.	Result								
Manganese, Dissolved	ug/L	118	1000	1000	1030	1050	91	93	75-125	2	20		
Molybdenum, Dissolved	ug/L	ND	1000	1000	976	997	97	99	75-125	2	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 620157 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2857850 Matrix: Water
 Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/13/21 05:37	
Arsenic	ug/L	ND	1.0	05/13/21 05:37	
Beryllium	ug/L	ND	0.20	05/13/21 05:37	
Cobalt	ug/L	ND	1.0	05/13/21 05:37	
Selenium	ug/L	ND	1.0	05/13/21 05:37	
Thallium	ug/L	ND	1.0	05/13/21 05:37	

LABORATORY CONTROL SAMPLE: 2857851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.0	105	80-120	
Arsenic	ug/L	40	37.4	94	80-120	
Beryllium	ug/L	40	38.3	96	80-120	
Cobalt	ug/L	40	42.4	106	80-120	
Selenium	ug/L	40	38.9	97	80-120	
Thallium	ug/L	40	41.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857852 2857853

Parameter	Units	50286949010		50286949013		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	ug/L	ND	40	40	40.5	41.8	101	104	75-125	3	20		
Arsenic	ug/L	1.1	40	40	36.8	37.2	89	90	75-125	1	20		
Beryllium	ug/L	ND	40	40	39.5	39.3	99	98	75-125	1	20		
Cobalt	ug/L	ND	40	40	38.3	39.0	95	97	75-125	2	20		
Selenium	ug/L	ND	40	40	37.1	37.2	93	93	75-125	0	20		
Thallium	ug/L	ND	40	40	43.3	42.0	108	105	75-125	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857854 2857855

Parameter	Units	50286989001		50286989002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	ug/L	ND	40	40	39.9	36.9	100	92	75-125	8	20		
Arsenic	ug/L	1.7	40	40	39.3	39.8	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Parameter	Units	2857854		2857855		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	ug/L	ND	40	40	37.1	37.2	93	93	75-125	0	20		
Cobalt	ug/L	0.16J	40	40	37.4	37.2	93	93	75-125	1	20		
Selenium	ug/L	ND	40	40	37.8	39.4	94	98	75-125	4	20		
Thallium	ug/L	ND	40	40	40.8	40.2	102	100	75-125	2	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 620281 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006

METHOD BLANK: 2858321 Matrix: Water

Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	2.0	05/12/21 15:31	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	2.0	05/12/21 15:31	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	2.0	05/12/21 15:31	

LABORATORY CONTROL SAMPLE: 2858322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	47.2	94	90-110	

SAMPLE DUPLICATE: 2858323

Parameter	Units	50286944002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	74.9	73.8	1	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	74.9	73.8	1	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2858324

Parameter	Units	50286934012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	297	306	3	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	297	306	3	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 620285 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2858356 Matrix: Water
 Associated Lab Samples: 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/12/21 15:53	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/12/21 15:53	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/12/21 15:53	

LABORATORY CONTROL SAMPLE: 2858357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 2858358

Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	316	302	5	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	316	302	5	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2858359

Parameter	Units	50286950001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	274	276	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	274	276	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	619994	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

METHOD BLANK:	2857163	Matrix:	Water
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/11/21 13:53	

LABORATORY CONTROL SAMPLE: 2857164						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2857166						
Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	436	447	2	10	

SAMPLE DUPLICATE: 2857185						
Parameter	Units	50286948001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	674	670	1	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 619790

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949001, 50286949002, 50286949003

SAMPLE DUPLICATE: 2856555

Parameter	Units	50286830001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

SAMPLE DUPLICATE: 2856556

Parameter	Units	50286944002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	619958	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

SAMPLE DUPLICATE: 2857027

Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2857028

Parameter	Units	50286989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 619956 Analysis Method: SM 4500-S2-D
 QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2857016 Matrix: Water
 Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/11/21 12:09	

LABORATORY CONTROL SAMPLE: 2857017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857018 2857019

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.49	95	98	90-110	4	20	

MATRIX SPIKE SAMPLE: 2857020

Parameter	Units	50286945003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.43	84	90-110	M0

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch: 620720 Analysis Method: HACH 8146
QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2860760 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 11:34	H3,N2

LABORATORY CONTROL SAMPLE: 2860761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	102	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860762 2860763

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	103	104	90-110	1	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860764 2860765

Parameter	Units	50287016001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	66.5	100	100	162	165	96	98	90-110	2	20	H3,N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	619640	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

METHOD BLANK:	2855709	Matrix:	Water
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/08/21 07:07	
Nitrogen, Nitrite	mg/L	ND	0.10	05/08/21 07:07	

LABORATORY CONTROL SAMPLE: 2855710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.97	97	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2855711 2855712

Parameter	Units	50286949010 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	106	107	90-110	1	20	M3
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	112	113	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 2855713

Parameter	Units	50286949009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		8.3	5	13.0	95	90-110
Nitrogen, Nitrite	mg/L		ND	5	5.1	102	90-110

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	620478	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949001, 50286949008, 50286949009, 50286949010, 50286949014

METHOD BLANK: 2859358 Matrix: Water
Associated Lab Samples: 50286949001, 50286949008, 50286949009, 50286949010, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	0.28	0.15	05/14/21 11:07	

LABORATORY CONTROL SAMPLE: 2859359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859360 2859361

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.9				21		

MATRIX SPIKE SAMPLE: 2859362

Parameter	Units	50286955003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	<0.083		1.7			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	620909	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007

METHOD BLANK: 2861899 Matrix: Water

Associated Lab Samples: 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/17/21 09:16	

LABORATORY CONTROL SAMPLE: 2861900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861901 2861902

Parameter	Units	50287195001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	9.5			11.8	11.2				6		

MATRIX SPIKE SAMPLE: 2861903

Parameter	Units	50287350001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.4	3.0			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch: 621250

Analysis Method: EPA 365.1

QC Batch Method: EPA 365.1

Analysis Description: 365.1 Total Phosphorus

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286949013

METHOD BLANK: 2863025

Matrix: Water

Associated Lab Samples: 50286949013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/18/21 17:04	

LABORATORY CONTROL SAMPLE: 2863026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863027 2863028

Parameter	Units	50286564008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.6	1.7				4		

MATRIX SPIKE SAMPLE: 2863029

Parameter	Units	50286955023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.48		2.2			

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch: 621316 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

METHOD BLANK: 2863310 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013, 50286949014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/18/21 14:31	

LABORATORY CONTROL SAMPLE: 2863311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863312 2863313

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	9.1	9.1	91	91	80-120	0	20	

MATRIX SPIKE SAMPLE: 2863314

Parameter	Units	50286996003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	9.7	94	80-120	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

QC Batch: 621098 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013

METHOD BLANK: 2862574 Matrix: Water
Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/17/21 22:58	

LABORATORY CONTROL SAMPLE: 2862575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862576 2862577

Parameter	Units	50286944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	10	10	10.4	10.3	98	97	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862578 2862579

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	10	10	9.1	9.1	91	91	80-120	0	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-5S **Lab ID: 50286949001** Collected: 05/06/21 09:52 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0789 ± 0.464 (0.948) C:NA T:95%	pCi/L	06/11/21 14:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.10 ± 0.484 (0.817) C:69% T:91%	pCi/L	06/11/21 11:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.18 ± 0.948 (1.77)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7S **Lab ID: 50286949002** Collected: 05/06/21 11:15 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.151 ± 0.344 (0.204) C:NA T:95%	pCi/L	06/11/21 14:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.38 ± 0.514 (0.780) C:69% T:91%	pCi/L	06/11/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 0.858 (0.984)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-7D **Lab ID: 50286949003** Collected: 05/06/21 12:12 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.743 ± 0.633 (0.889) C:NA T:101%	pCi/L	06/11/21 14:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.711 ± 0.385 (0.692) C:69% T:94%	pCi/L	06/11/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.45 ± 1.02 (1.58)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10S **Lab ID: 50286949004** Collected: 05/06/21 14:40 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0696 ± 0.696 (1.32) C:NA T:88%	pCi/L	06/11/21 14:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.717 ± 0.386 (0.679) C:66% T:84%	pCi/L	06/11/21 11:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.787 ± 1.08 (2.00)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-10D **Lab ID: 50286949005** Collected: 05/06/21 13:45 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.562 ± 0.639 (1.01) C:NA T:90%	pCi/L	06/11/21 14:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.38 ± 0.515 (0.783) C:67% T:92%	pCi/L	06/11/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94 ± 1.15 (1.79)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13S **Lab ID: 50286949006** Collected: 05/06/21 13:22 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.808 ± 0.640 (0.870) C:NA T:94%	pCi/L	06/11/21 14:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.604 ± 0.435 (0.859) C:71% T:88%	pCi/L	06/11/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.41 ± 1.08 (1.73)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-13D **Lab ID: 50286949007** Collected: 05/06/21 14:10 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.425 ± 0.688 (1.20) C:NA T:98%	pCi/L	06/11/21 14:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.34 ± 0.480 (0.702) C:73% T:89%	pCi/L	06/11/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.77 ± 1.17 (1.90)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15S **Lab ID: 50286949008** Collected: 05/06/21 12:30 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.356 ± 0.429 (0.654) C:NA T:94%	pCi/L	06/11/21 14:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.102 ± 0.311 (0.698) C:74% T:89%	pCi/L	06/11/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.458 ± 0.740 (1.35)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-151 **Lab ID: 50286949009** Collected: 05/06/21 11:30 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.175 ± 0.541 (1.05) C:NA T:88%	pCi/L	06/11/21 14:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.741 ± 0.418 (0.766) C:70% T:88%	pCi/L	06/11/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.916 ± 0.959 (1.82)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15D **Lab ID: 50286949010** Collected: 05/06/21 10:15 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.01 ± 0.738 (1.02) C:NA T:86%	pCi/L	06/11/21 14:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.731 ± 0.433 (0.807) C:69% T:85%	pCi/L	06/11/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 1.17 (1.83)	pCi/L	06/14/21 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15D MS **Lab ID: 50286949011** Collected: 05/06/21 10:15 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	69.41 %REC ± NA (NA) C:NA T:NA	pCi/L	06/11/21 15:12	13982-63-3	1d
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	100.25 %REC ± NA (NA) C:NA T:NA	pCi/L	06/11/21 11:17	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: MW-15D MSD **Lab ID: 50286949012** Collected: 05/06/21 10:15 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	93.62 %REC 29.70 RPD ± NA (NA) C:NA T:NA	pCi/L	06/11/21 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	107.64 %REC 7.11 RPD ± NA (NA) C:NA T:NA	pCi/L	06/11/21 11:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Sample: DUP 2 **Lab ID: 50286949013** Collected: 05/06/21 08:00 Received: 05/07/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.544 (1.15) C:NA T:96%	pCi/L	06/11/21 14:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.34 ± 0.512 (0.792) C:70% T:88%	pCi/L	06/11/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.34 ± 1.06 (1.94)	pCi/L	06/14/21 17:55	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 1 Lab ID: 50286949014 Collected: 05/06/21 14:20 Received: 05/07/21 16:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.371 ± 0.516 (0.862) C:NA T:96%	pCi/L	06/11/21 14:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.485 ± 0.366 (0.715) C:71% T:84%	pCi/L	06/11/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.856 ± 0.882 (1.58)	pCi/L	06/14/21 17:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	450383	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949011, 50286949012, 50286949013, 50286949014

METHOD BLANK:	2173651	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949011, 50286949012, 50286949013, 50286949014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.120 ± 0.274 (0.647) C:NA T:101%	pCi/L	06/11/21 14:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

QC Batch:	450382	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949011, 50286949012, 50286949013, 50286949014		

METHOD BLANK:	2173650	Matrix:	Water
Associated Lab Samples:	50286949001, 50286949002, 50286949003, 50286949004, 50286949005, 50286949006, 50286949007, 50286949008, 50286949009, 50286949010, 50286949011, 50286949012, 50286949013, 50286949014		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.223 ± 0.304 (0.650) C:73% T:90%	pCi/L	06/11/21 11:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| 1d | The Ra-226 sample Matrix Spike recovery was low and outside of the default acceptance criteria for MS recovery. The MS/MSD RPD is acceptable. The low MS recovery may be due to sample matrix interference. |
| H3 | Sample was received or analysis requested beyond the recognized method holding time. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences. |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| PL | The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286949001	MW-5S	EPA 9056	622295		
50286949002	MW-7S	EPA 9056	622295		
50286949003	MW-7D	EPA 9056	622295		
50286949004	MW-10S	EPA 9056	622295		
50286949005	MW-10D	EPA 9056	622295		
50286949006	MW-13S	EPA 9056	622295		
50286949007	MW-13D	EPA 9056	622295		
50286949008	MW-15S	EPA 9056	622295		
50286949009	MW-15I	EPA 9056	622295		
50286949010	MW-15D	EPA 9056	622295		
50286949013	DUP 2	EPA 9056	622295		
50286949014	Field Blank 1	EPA 9056	622295		
50286949001	MW-5S	EPA 3010	620424	EPA 6010	620888
50286949002	MW-7S	EPA 3010	620424	EPA 6010	620888
50286949003	MW-7D	EPA 3010	620424	EPA 6010	620888
50286949004	MW-10S	EPA 3010	620424	EPA 6010	620888
50286949005	MW-10D	EPA 3010	620424	EPA 6010	620888
50286949006	MW-13S	EPA 3010	620424	EPA 6010	620888
50286949007	MW-13D	EPA 3010	620424	EPA 6010	620888
50286949008	MW-15S	EPA 3010	620424	EPA 6010	620888
50286949009	MW-15I	EPA 3010	620424	EPA 6010	620888
50286949010	MW-15D	EPA 3010	620424	EPA 6010	620888
50286949013	DUP 2	EPA 3010	620424	EPA 6010	620888
50286949014	Field Blank 1	EPA 3010	620424	EPA 6010	620888
50286949001	MW-5S	EPA 3010	620254	EPA 6010	621448
50286949002	MW-7S	EPA 3010	620254	EPA 6010	621448
50286949003	MW-7D	EPA 3010	620254	EPA 6010	621448
50286949004	MW-10S	EPA 3010	620254	EPA 6010	621448
50286949005	MW-10D	EPA 3010	620254	EPA 6010	621448
50286949006	MW-13S	EPA 3010	620254	EPA 6010	621448
50286949007	MW-13D	EPA 3010	620254	EPA 6010	621448
50286949008	MW-15S	EPA 3010	620254	EPA 6010	621448
50286949009	MW-15I	EPA 3010	620254	EPA 6010	621448
50286949010	MW-15D	EPA 3010	620254	EPA 6010	621448
50286949013	DUP 2	EPA 3010	620254	EPA 6010	621448
50286949001	MW-5S	EPA 200.2	620157	EPA 6020	620442
50286949002	MW-7S	EPA 200.2	620157	EPA 6020	620442
50286949003	MW-7D	EPA 200.2	620157	EPA 6020	620442
50286949004	MW-10S	EPA 200.2	620157	EPA 6020	620442
50286949005	MW-10D	EPA 200.2	620157	EPA 6020	620442
50286949006	MW-13S	EPA 200.2	620157	EPA 6020	620442
50286949007	MW-13D	EPA 200.2	620157	EPA 6020	620442
50286949008	MW-15S	EPA 200.2	620157	EPA 6020	620442
50286949009	MW-15I	EPA 200.2	620157	EPA 6020	620442
50286949010	MW-15D	EPA 200.2	620157	EPA 6020	620442
50286949013	DUP 2	EPA 200.2	620157	EPA 6020	620442
50286949014	Field Blank 1	EPA 200.2	620157	EPA 6020	620442

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286949001	MW-5S	EPA 7470	619917	EPA 7470	620708
50286949002	MW-7S	EPA 7470	619917	EPA 7470	620708
50286949003	MW-7D	EPA 7470	619917	EPA 7470	620708
50286949004	MW-10S	EPA 7470	619917	EPA 7470	620708
50286949005	MW-10D	EPA 7470	619917	EPA 7470	620708
50286949006	MW-13S	EPA 7470	619917	EPA 7470	620708
50286949007	MW-13D	EPA 7470	619917	EPA 7470	620708
50286949008	MW-15S	EPA 7470	619917	EPA 7470	620708
50286949009	MW-15I	EPA 7470	619917	EPA 7470	620708
50286949010	MW-15D	EPA 7470	619917	EPA 7470	620708
50286949013	DUP 2	EPA 7470	619917	EPA 7470	620708
50286949014	Field Blank 1	EPA 7470	619917	EPA 7470	620708
50286949001	MW-5S	EPA 903.1	450383		
50286949002	MW-7S	EPA 903.1	450383		
50286949003	MW-7D	EPA 903.1	450383		
50286949004	MW-10S	EPA 903.1	450383		
50286949005	MW-10D	EPA 903.1	450383		
50286949006	MW-13S	EPA 903.1	450383		
50286949007	MW-13D	EPA 903.1	450383		
50286949008	MW-15S	EPA 903.1	450383		
50286949009	MW-15I	EPA 903.1	450383		
50286949010	MW-15D	EPA 903.1	450383		
50286949011	MW-15D MS	EPA 903.1	450383		
50286949012	MW-15D MSD	EPA 903.1	450383		
50286949013	DUP 2	EPA 903.1	450383		
50286949014	Field Blank 1	EPA 903.1	450383		
50286949001	MW-5S	EPA 904.0	450382		
50286949002	MW-7S	EPA 904.0	450382		
50286949003	MW-7D	EPA 904.0	450382		
50286949004	MW-10S	EPA 904.0	450382		
50286949005	MW-10D	EPA 904.0	450382		
50286949006	MW-13S	EPA 904.0	450382		
50286949007	MW-13D	EPA 904.0	450382		
50286949008	MW-15S	EPA 904.0	450382		
50286949009	MW-15I	EPA 904.0	450382		
50286949010	MW-15D	EPA 904.0	450382		
50286949011	MW-15D MS	EPA 904.0	450382		
50286949012	MW-15D MSD	EPA 904.0	450382		
50286949013	DUP 2	EPA 904.0	450382		
50286949014	Field Blank 1	EPA 904.0	450382		
50286949001	MW-5S	Total Radium Calculation	452347		
50286949002	MW-7S	Total Radium Calculation	452347		
50286949003	MW-7D	Total Radium Calculation	452347		
50286949004	MW-10S	Total Radium Calculation	452347		
50286949005	MW-10D	Total Radium Calculation	452347		
50286949006	MW-13S	Total Radium Calculation	452347		
50286949007	MW-13D	Total Radium Calculation	452347		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1
Pace Project No.: 50286949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286949008	MW-15S	Total Radium Calculation	452347		
50286949009	MW-15I	Total Radium Calculation	452347		
50286949010	MW-15D	Total Radium Calculation	452347		
50286949013	DUP 2	Total Radium Calculation	452347		
50286949014	Field Blank 1	Total Radium Calculation	452347		
50286949001	MW-5S	SM 2320B	620281		
50286949002	MW-7S	SM 2320B	620281		
50286949003	MW-7D	SM 2320B	620281		
50286949004	MW-10S	SM 2320B	620281		
50286949005	MW-10D	SM 2320B	620281		
50286949006	MW-13S	SM 2320B	620281		
50286949007	MW-13D	SM 2320B	620285		
50286949008	MW-15S	SM 2320B	620285		
50286949009	MW-15I	SM 2320B	620285		
50286949010	MW-15D	SM 2320B	620285		
50286949013	DUP 2	SM 2320B	620285		
50286949014	Field Blank 1	SM 2320B	620285		
50286949001	MW-5S	SM 2540C	619994		
50286949002	MW-7S	SM 2540C	619994		
50286949003	MW-7D	SM 2540C	619994		
50286949004	MW-10S	SM 2540C	619994		
50286949005	MW-10D	SM 2540C	619994		
50286949006	MW-13S	SM 2540C	619994		
50286949007	MW-13D	SM 2540C	619994		
50286949008	MW-15S	SM 2540C	619994		
50286949009	MW-15I	SM 2540C	619994		
50286949010	MW-15D	SM 2540C	619994		
50286949013	DUP 2	SM 2540C	619994		
50286949014	Field Blank 1	SM 2540C	619994		
50286949001	MW-5S	SM 4500-H+B	619790		
50286949002	MW-7S	SM 4500-H+B	619790		
50286949003	MW-7D	SM 4500-H+B	619790		
50286949004	MW-10S	SM 4500-H+B	619958		
50286949005	MW-10D	SM 4500-H+B	619958		
50286949006	MW-13S	SM 4500-H+B	619958		
50286949007	MW-13D	SM 4500-H+B	619958		
50286949008	MW-15S	SM 4500-H+B	619958		
50286949009	MW-15I	SM 4500-H+B	619958		
50286949010	MW-15D	SM 4500-H+B	619958		
50286949013	DUP 2	SM 4500-H+B	619958		
50286949014	Field Blank 1	SM 4500-H+B	619958		
50286949001	MW-5S	SM 4500-S2-D	619956		
50286949002	MW-7S	SM 4500-S2-D	619956		
50286949003	MW-7D	SM 4500-S2-D	619956		
50286949004	MW-10S	SM 4500-S2-D	619956		
50286949005	MW-10D	SM 4500-S2-D	619956		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286949006	MW-13S	SM 4500-S2-D	619956		
50286949007	MW-13D	SM 4500-S2-D	619956		
50286949008	MW-15S	SM 4500-S2-D	619956		
50286949009	MW-15I	SM 4500-S2-D	619956		
50286949010	MW-15D	SM 4500-S2-D	619956		
50286949013	DUP 2	SM 4500-S2-D	619956		
50286949014	Field Blank 1	SM 4500-S2-D	619956		
50286949001	MW-5S	HACH 8146	620720		
50286949002	MW-7S	HACH 8146	620720		
50286949003	MW-7D	HACH 8146	620720		
50286949004	MW-10S	HACH 8146	620720		
50286949005	MW-10D	HACH 8146	620720		
50286949006	MW-13S	HACH 8146	620720		
50286949007	MW-13D	HACH 8146	620720		
50286949008	MW-15S	HACH 8146	620720		
50286949009	MW-15I	HACH 8146	620720		
50286949010	MW-15D	HACH 8146	620720		
50286949013	DUP 2	HACH 8146	620720		
50286949014	Field Blank 1	HACH 8146	620720		
50286949001	MW-5S	EPA 353.2	619640		
50286949002	MW-7S	EPA 353.2	619640		
50286949003	MW-7D	EPA 353.2	619640		
50286949004	MW-10S	EPA 353.2	619640		
50286949005	MW-10D	EPA 353.2	619640		
50286949006	MW-13S	EPA 353.2	619640		
50286949007	MW-13D	EPA 353.2	619640		
50286949008	MW-15S	EPA 353.2	619640		
50286949009	MW-15I	EPA 353.2	619640		
50286949010	MW-15D	EPA 353.2	619640		
50286949013	DUP 2	EPA 353.2	619640		
50286949014	Field Blank 1	EPA 353.2	619640		
50286949001	MW-5S	EPA 365.1	620478	EPA 365.1	620644
50286949002	MW-7S	EPA 365.1	620909	EPA 365.1	621002
50286949003	MW-7D	EPA 365.1	620909	EPA 365.1	621002
50286949004	MW-10S	EPA 365.1	620909	EPA 365.1	621002
50286949005	MW-10D	EPA 365.1	620909	EPA 365.1	621002
50286949006	MW-13S	EPA 365.1	620909	EPA 365.1	621002
50286949007	MW-13D	EPA 365.1	620909	EPA 365.1	621002
50286949008	MW-15S	EPA 365.1	620478	EPA 365.1	620644
50286949009	MW-15I	EPA 365.1	620478	EPA 365.1	620644
50286949010	MW-15D	EPA 365.1	620478	EPA 365.1	620644
50286949013	DUP 2	EPA 365.1	621250	EPA 365.1	621476
50286949014	Field Blank 1	EPA 365.1	620478	EPA 365.1	620644
50286949001	MW-5S	SM 5310C	621316		
50286949002	MW-7S	SM 5310C	621316		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 1

Pace Project No.: 50286949

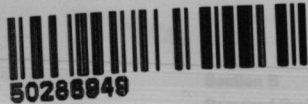
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286949003	MW-7D	SM 5310C	621316		
50286949004	MW-10S	SM 5310C	621316		
50286949005	MW-10D	SM 5310C	621316		
50286949006	MW-13S	SM 5310C	621316		
50286949007	MW-13D	SM 5310C	621316		
50286949008	MW-15S	SM 5310C	621316		
50286949009	MW-15I	SM 5310C	621316		
50286949010	MW-15D	SM 5310C	621316		
50286949013	DUP 2	SM 5310C	621316		
50286949014	Field Blank 1	SM 5310C	621316		
50286949001	MW-5S	SM 5310C	621098		
50286949002	MW-7S	SM 5310C	621098		
50286949003	MW-7D	SM 5310C	621098		
50286949004	MW-10S	SM 5310C	621098		
50286949005	MW-10D	SM 5310C	621098		
50286949006	MW-13S	SM 5310C	621098		
50286949007	MW-13D	SM 5310C	621098		
50286949008	MW-15S	SM 5310C	621098		
50286949009	MW-15I	SM 5310C	621098		
50286949010	MW-15D	SM 5310C	621098		
50286949013	DUP 2	SM 5310C	621098		

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WO#: 50286949



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: ATC Group Services
Address: 7988 Centerpoint Drive
Indianapolis, IN 46256
Email: mark.breting@atcassociates.com
Phone: NONE Fax:
Requested Due Date:

Section C

Invoice Information:

Report To: Mark Breting
Copy To:
Attention:
Company Name:
Address:
Purchase Order #:
Pace Project Manager: Hayden Pult
Project Name: Harding St Profile 1 Report 1
Project #:
Pace Profile #: 6246 Line 26

Main data table with columns: ITEM #, MATRIX CODE, SAMPLE TYPE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), and SAMPLE CONDITIONS.

Summary table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, and SAMPLE CONDITIONS.

SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER: Andy Jashonjak, SIGNATURE of SAMPLER, DATE Signed: 5-7-21, TEMP in C, Received on Ice, Custody Sealed, Cooler, Samples intact.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: ATC Group Services
 Address: 7988 Centerpoint Drive
 Indianapolis, IN 46256
 Email: mark.breting@atcassociates.com
 Phone: NONE Fax:
 Requested Due Date:

Section B
Required Project Information:

Report To: Mark Breting
 Copy To:
 Purchase Order #:
 Project Name: Harding St Profile 1 Report 1
 Project #:

Section C
Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Hayden Putt
 Pace Profile #: 6246 Line 26

Regulatory Agency
 State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Requested Analysis Filtered (Y/N)													Residual Chlorine (Y/N)		
				START				END		Unpreserved	H2SO4	HNO3	HCl	NaOH + ZnAcetate	Na2S2O3	Methanol	Other		TDS	(Cl, F, SO4) IC	Metals, Total*	Metals Diss. Field Filtered**	Rad-228	Rad-226	Alkalinity, Ferrous Iron, pH	TOC by 5310C	DOC by 5310C	Sulfide	Phosphate	NO2, NO3-353.2				
				DATE	TIME			DATE	TIME																						Y		Y	Y
25	MW-15S	WT			5-6-21	12:30	11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
26	MW-15I	WT			5-6-21	11:30	11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
27	MW-15D	WT			5-6-21	10:15	11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
28	DUP 1	WT					11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
29	DUP 2	WT			5-6-21		11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
30	Field Blank 1	WT			5-6-21	14:20	9	3	2	3		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X			
31	MS1	WT					11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X			
32	MSD1	WT					11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X			
33	MS2	WT					11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X			
34	MSD2	WT					11	3	3	4		1						X	X	X	X	X	X	X	X	X	X	X	X	X	X			
35																																		
36																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)	Andy Jaskowiah	5-7-21	10:16	Zelnick for Pace	5/7/21	1445	
6020 (Be, Co, As, Se, Sb, Ti), 7470 (Hg).	Zelnick for Pace	5/7/21	1540				
** Dissolved FF 6010 (Mo, Mn)							
Alkalinity = (Total, Bicarb & Carb)							

SAMPLER NAME AND SIGNATURE		TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Andy Jaskowiah				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed:		5-7-21			



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MR 5/7/21 1545

1. Courier: FED EX UPS CLIENT PACE USPS OTHER

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 542 COMMENTS
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>N03</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (2)</u> <u>H2SO4 (2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>1550</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS: 2.6/2.0 2.7/2.1 1.6/1.0 2.2/1.6 2.2/1.6 2.7/2.1 1.7/1.1 2.2/1.6

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	AG3S Filtered	Matrix	pH <2	pH >9	pH >10		
				1																											
2																															
3																															
4																															
5																															
6																															
7																															
8													1			2	1	2	1	1	1		1		1		WT	✓	✓		
9																															
10													1			2	1	2	1	1	1		1		1		WT	✓	✓		
11													1			2	1	2	1	1	1		1		1		WT	✓	✓		
12																															

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	WT	Water
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	SL	Solid
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac	NAL	Non-aqueous liquid
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WP	Wipe
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass.				

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	AG3S Filtered			Matrix	pH <2	pH >9	pH >10			
																															1		
2																																	
3																																	
4												1			2	1	2	1	1	1			1					WT	✓	✓			
5												1			2	1	2	1	1	1			1				WT	✓	✓				
6																																	
7																																	
8																																	
9																																	
10												1			2	1	2	1	1	1			1				WT	✓	✓				
11												1			2	1	2	1	1	1			1				WT	✓	✓				
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	U	Summa Can
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WT	Water
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic	SL	Solid
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	AG3S Filtered			Matrix	pH <2	pH >9	pH >10
1												1			2	1	2	1	1	1		1					5	✓	✓	
2												1			2	1	2	1	1	1		1					5	✓	✓	
3												3			6	3	6	3	3	3		3					3	✓	✓	
4																														
5												1			2	1	2	1	1	1		1			✓		5	✓	✓	
6												1			2	1	1	1		1		1					5	✓	✓	
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				
						AF	Air Filter
						C	Air Cassettes
						R	Terra core kit
						SP5T	120mL Coliform Na Thiosulfate
						U	Summa Can
						ZPLC	Ziploc Bag
						WT	Water
						SL	Solid
						NAL	Non-aqueous liquid
						WP	Wipe

July 27, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St. Profile 1 Report 2
Pace Project No.: 50286950

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St. Profile 1 Report 2
Pace Project No.: 50286950

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50286950001	M-4	Water	05/06/21 12:31	05/07/21 15:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50286950001	M-4	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	CAW, DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	HCF	3	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	SWJ	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50286950001	M-4					
EPA 9056	Chloride	122	mg/L	25.0	05/20/21 17:35	
EPA 9056	Fluoride	0.15	mg/L	0.10	05/20/21 17:02	
EPA 9056	Sulfate	918	mg/L	25.0	05/20/21 17:35	P8
EPA 6010	Barium	141	ug/L	10.0	05/15/21 02:45	
EPA 6010	Boron	24000	ug/L	100	05/15/21 02:45	
EPA 6010	Cadmium	4.0	ug/L	2.0	05/15/21 02:45	
EPA 6010	Calcium	311000	ug/L	3000	05/15/21 03:18	
EPA 6010	Iron	4810	ug/L	100	05/15/21 02:45	
EPA 6010	Lithium	228	ug/L	20.0	05/15/21 02:45	
EPA 6010	Magnesium	54600	ug/L	1000	05/15/21 02:45	
EPA 6010	Manganese	740	ug/L	10.0	05/15/21 02:45	
EPA 6010	Molybdenum	343	ug/L	10.0	05/15/21 02:45	
EPA 6010	Potassium	21200	ug/L	1000	05/15/21 02:45	
EPA 6010	Silica	12700	ug/L	450	05/15/21 02:45	N2
EPA 6010	Sodium	132000	ug/L	1000	05/15/21 02:45	
EPA 6010	Manganese, Dissolved	719	ug/L	10.0	05/19/21 04:15	
EPA 6010	Molybdenum, Dissolved	325	ug/L	10.0	05/19/21 04:15	
EPA 6020	Arsenic	1020	ug/L	10.0	05/14/21 03:53	
EPA 903.1	Radium-226	0.545 ± 0.508 (0.710)	pCi/L		06/11/21 12:26	
EPA 904.0	Radium-228	C:NA T:88% 1.41 ± 0.523 (0.791) C:68% T:87%	pCi/L		06/10/21 11:17	
Total Radium Calculation	Total Radium	1.96 ± 1.03 (1.50)	pCi/L		06/14/21 08:59	
SM 2320B	Alkalinity, Total as CaCO3	274	mg/L	2.0	05/12/21 15:53	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	274	mg/L	2.0	05/12/21 15:53	
SM 2540C	Total Dissolved Solids	1770	mg/L	20.0	05/11/21 13:57	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/11/21 09:37	H3
EPA 365.1	Phosphate as P04	2.6	mg/L	0.15	05/18/21 17:08	
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	05/18/21 20:39	
SM 5310C	Dissolved Organic Carbon	2.5	mg/L	1.0	05/18/21 04:06	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Sample: M-4	Lab ID: 50286950001	Collected: 05/06/21 12:31	Received: 05/07/21 15:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	122	mg/L	25.0	100		05/20/21 17:35	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		05/20/21 17:02	16984-48-8	
Sulfate	918	mg/L	25.0	100		05/20/21 17:35	14808-79-8	P8
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/14/21 13:28	05/15/21 02:45	7429-90-5	
Barium	141	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:45	7440-39-3	
Boron	24000	ug/L	100	1	05/14/21 13:28	05/15/21 02:45	7440-42-8	
Cadmium	4.0	ug/L	2.0	1	05/14/21 13:28	05/15/21 02:45	7440-43-9	
Calcium	311000	ug/L	3000	3	05/14/21 13:28	05/15/21 03:18	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:45	7440-47-3	
Iron	4810	ug/L	100	1	05/14/21 13:28	05/15/21 02:45	7439-89-6	
Lead	ND	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:45	7439-92-1	
Lithium	228	ug/L	20.0	1	05/14/21 13:28	05/15/21 02:45	7439-93-2	
Magnesium	54600	ug/L	1000	1	05/14/21 13:28	05/15/21 02:45	7439-95-4	
Manganese	740	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:45	7439-96-5	
Molybdenum	343	ug/L	10.0	1	05/14/21 13:28	05/15/21 02:45	7439-98-7	
Potassium	21200	ug/L	1000	1	05/14/21 13:28	05/15/21 02:45	7440-09-7	
Silica	12700	ug/L	450	1	05/14/21 13:28	05/15/21 02:45	7631-86-9	N2
Sodium	132000	ug/L	1000	1	05/14/21 13:28	05/15/21 02:45	7440-23-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	719	ug/L	10.0	1	05/17/21 13:21	05/19/21 04:15	7439-96-5	
Molybdenum, Dissolved	325	ug/L	10.0	1	05/17/21 13:21	05/19/21 04:15	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:32	7440-36-0	
Arsenic	1020	ug/L	10.0	10	05/12/21 08:30	05/14/21 03:53	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:32	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/12/21 08:30	05/13/21 05:32	7782-49-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	274	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Bicarbonate (CaCO3)	274	mg/L	2.0	1		05/12/21 15:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/12/21 15:53		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1770	mg/L	20.0	1		05/11/21 13:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Sample: M-4		Lab ID: 50286950001		Collected: 05/06/21 12:31	Received: 05/07/21 15:40	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/11/21 09:37		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis						
Sulfide	ND	mg/L	0.10	1		05/11/21 13:25	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis						
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 11:39		H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis						
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/08/21 07:37	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/08/21 07:37	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis						
Phosphate as P04	2.6	mg/L	0.15	1	05/18/21 14:10	05/18/21 17:08		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	1.5	mg/L	1.0	1		05/18/21 20:39	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Dissolved Organic Carbon	2.5	mg/L	1.0	1		05/18/21 04:06		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 621856

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2865718

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/20/21 15:44	
Fluoride	mg/L	ND	0.10	05/20/21 15:44	
Sulfate	mg/L	ND	0.25	05/20/21 15:44	

LABORATORY CONTROL SAMPLE: 2865719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	96	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865720 2865721

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286989001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	5.0	1.2	1.2	6.3	6.4	108	112	80-120	1	15		
Fluoride	mg/L	0.10	0.5	0.5	0.57	0.57	94	94	80-120	0	15		
Sulfate	mg/L	22.0	25	25	45.9	45.8	95	95	80-120	0	15	P8	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 620424

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2859199

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/15/21 02:04	
Barium	ug/L	ND	10.0	05/15/21 02:04	
Boron	ug/L	ND	100	05/15/21 02:04	
Cadmium	ug/L	ND	2.0	05/15/21 02:04	
Calcium	ug/L	ND	1000	05/15/21 02:04	
Chromium	ug/L	ND	10.0	05/15/21 02:04	
Iron	ug/L	ND	100	05/15/21 02:04	
Lead	ug/L	ND	10.0	05/15/21 02:04	
Lithium	ug/L	ND	20.0	05/15/21 02:04	
Magnesium	ug/L	ND	1000	05/15/21 02:04	
Manganese	ug/L	ND	10.0	05/15/21 02:04	
Molybdenum	ug/L	ND	10.0	05/15/21 02:04	
Potassium	ug/L	ND	1000	05/15/21 02:04	
Silica	ug/L	ND	450	05/15/21 02:04	N2
Sodium	ug/L	ND	1000	05/15/21 02:04	

LABORATORY CONTROL SAMPLE: 2859200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	80-120	
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	991	99	80-120	
Cadmium	ug/L	1000	994	99	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Chromium	ug/L	1000	1040	104	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	1000	942	94	80-120	
Lithium	ug/L	1000	996	100	80-120	
Magnesium	ug/L	10000	9440	94	80-120	
Manganese	ug/L	1000	960	96	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9940	99	80-120	
Silica	ug/L	10700	10300	96		N2
Sodium	ug/L	10000	9890	99	80-120	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859201												2859202	
Parameter	Units	50286949010 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
Aluminum	ug/L	ND	10000	10000	9690	9640	97	96	75-125	0	20		
Barium	ug/L	68.9	1000	1000	1080	1070	101	100	75-125	2	20		
Boron	ug/L	152	1000	1000	1150	1120	100	97	75-125	2	20		
Cadmium	ug/L	ND	1000	1000	995	980	100	98	75-125	2	20		
Calcium	ug/L	102000	10000	10000	113000	108000	109	67	75-125	4	20	P6	
Chromium	ug/L	ND	1000	1000	1030	1020	103	102	75-125	1	20		
Iron	ug/L	1150	10000	10000	11000	10900	98	98	75-125	0	20		
Lead	ug/L	ND	1000	1000	908	890	91	89	75-125	2	20		
Lithium	ug/L	ND	1000	1000	1010	994	100	99	75-125	1	20		
Magnesium	ug/L	29500	10000	10000	39100	37800	96	83	75-125	4	20		
Manganese	ug/L	113	1000	1000	1060	1040	94	93	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	1040	1020	103	102	75-125	2	20		
Potassium	ug/L	2080	10000	10000	12000	11800	99	97	75-125	2	20		
Silica	ug/L	12000	10700	10700	22500	22100	98	95		2		N2	
Sodium	ug/L	19400	10000	10000	29600	28600	102	93	75-125	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859203												2859204	
Parameter	Units	50286989001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD	
Aluminum	ug/L	ND	10000	10000	9510	9430	95	94	75-125	1	20		
Barium	ug/L	25.8	1000	1000	1020	1020	100	99	75-125	0	20		
Boron	ug/L	59.4J	1000	1000	1030	1020	97	96	75-125	1	20		
Cadmium	ug/L	ND	1000	1000	980	977	98	98	75-125	0	20		
Calcium	ug/L	78400	10000	10000	86500	86800	82	84	75-125	0	20		
Chromium	ug/L	ND	1000	1000	1020	1020	102	101	75-125	0	20		
Iron	ug/L	ND	10000	10000	9680	9610	97	96	75-125	1	20		
Lead	ug/L	ND	1000	1000	898	892	90	89	75-125	1	20		
Lithium	ug/L	7.9J	1000	1000	988	984	98	98	75-125	0	20		
Magnesium	ug/L	19400	10000	10000	28200	28200	88	88	75-125	0	20		
Manganese	ug/L	3.1J	1000	1000	929	923	93	92	75-125	1	20		
Molybdenum	ug/L	20.5	1000	1000	1040	1030	102	101	75-125	0	20		
Potassium	ug/L	946J	10000	10000	10800	10700	99	97	75-125	1	20		
Silica	ug/L	19100	10700	10700	28700	29000	90	93		1		N2	
Sodium	ug/L	24300	10000	10000	33700	34000	94	96	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 620254

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2858238

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/19/21 03:34	
Molybdenum, Dissolved	ug/L	ND	10.0	05/19/21 03:34	

LABORATORY CONTROL SAMPLE: 2858239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	952	95	80-120	
Molybdenum, Dissolved	ug/L	1000	998	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858240 2858241

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	118	1000	1000	1030	1050	91	93	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	976	997	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 620152	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2857826 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/13/21 03:08	
Arsenic	ug/L	ND	1.0	05/13/21 03:08	
Cobalt	ug/L	ND	1.0	05/13/21 03:08	
Selenium	ug/L	ND	1.0	05/13/21 03:08	

LABORATORY CONTROL SAMPLE: 2857827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	45.0	113	80-120	
Arsenic	ug/L	40	37.2	93	80-120	
Cobalt	ug/L	40	44.4	111	80-120	
Selenium	ug/L	40	39.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857828 2857829

Parameter	Units	50286853009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<5.0	40	40	43.1	42.6	108	106	75-125	1	20	
Arsenic	ug/L	<2.0	40	40	37.9	38.1	95	95	75-125	0	20	
Cobalt	ug/L	<1.0	40	40	41.6	41.8	103	104	75-125	1	20	
Selenium	ug/L	<1.0	40	40	37.7	38.8	94	97	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857830 2857831

Parameter	Units	50286853012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<5.0	40	40	43.4	43.3	108	108	75-125	0	20	
Arsenic	ug/L	<2.0	40	40	38.0	38.5	95	96	75-125	1	20	
Cobalt	ug/L	<1.0	40	40	40.5	40.4	101	101	75-125	0	20	
Selenium	ug/L	<1.0	40	40	38.7	38.7	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 620285	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2858356 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	2.0	05/12/21 15:53	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	2.0	05/12/21 15:53	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	2.0	05/12/21 15:53	

LABORATORY CONTROL SAMPLE: 2858357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 2858358

Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	316	302	5	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	316	302	5	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2858359

Parameter	Units	50286950001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	274	276	1	20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	274	276	1	20	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch:	619994	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50286950001	Laboratory:	Pace Analytical Services - Indianapolis

METHOD BLANK: 2857163 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/11/21 13:53	

LABORATORY CONTROL SAMPLE: 2857164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2857166

Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	436	447	2	10	

SAMPLE DUPLICATE: 2857185

Parameter	Units	50286948001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	674	670	1	10	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 619958

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

SAMPLE DUPLICATE: 2857027

Parameter	Units	50286949010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2857028

Parameter	Units	50286989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 619957	Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D	Analysis Description: 4500S2D Sulfide Water
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2857021 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/11/21 13:25	

LABORATORY CONTROL SAMPLE: 2857022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.46	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857023 2857024

Parameter	Units	50287011001		50287011002		50287011003		50287011004		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	94	94	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857025 2857026

Parameter	Units	50287011002		50287011003		50287011004		50287011005		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.5	0.50	0.48	96	92	90-110	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 620720	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2860760 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 11:34	H3,N2

LABORATORY CONTROL SAMPLE: 2860761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	102	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860762 2860763

Parameter	Units	50286949010		2860762		2860763		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	103	104	90-110	1	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860764 2860765

Parameter	Units	50287016001		2860764		2860765		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
Iron, Ferrous	mg/L	66.5	100	100	162	165	96	98	90-110	2	20	H3,N2

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 619640

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2855709

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/08/21 07:07	
Nitrogen, Nitrite	mg/L	ND	0.10	05/08/21 07:07	

LABORATORY CONTROL SAMPLE: 2855710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.97	97	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2855711 2855712

Parameter	Units	50286949010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	106	107	90-110	1	20	M3
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	112	113	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 2855713

Parameter	Units	50286949009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	8.3	5	13.0	95	90-110	
Nitrogen, Nitrite	mg/L	ND	5	5.1	102	90-110	

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 621250

Analysis Method: EPA 365.1

QC Batch Method: EPA 365.1

Analysis Description: 365.1 Total Phosphorus

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2863025

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/18/21 17:04	

LABORATORY CONTROL SAMPLE: 2863026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863027 2863028

Parameter	Units	50286564008		2863027		2863028		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Phosphate as P04	mg/L	ND		1.6	1.7				4		

MATRIX SPIKE SAMPLE: 2863029

Parameter	Units	50286955023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		0.48	2.2			

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 621317	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2863315 Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/18/21 20:18	

LABORATORY CONTROL SAMPLE: 2863316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863317 2863318

Parameter	Units	50287011001		2863317		2863318		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Total Organic Carbon	mg/L	1.2	10	10	11.0	10.9	98	97	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863319 2863320

Parameter	Units	50287011002		2863319		2863320		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Total Organic Carbon	mg/L	3.0	10	10	12.8	12.6	98	97	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863321 2863322

Parameter	Units	50287016001		2863321		2863322		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Total Organic Carbon	mg/L	2.3	10	10	12.2	12.2	99	99	80-120	0	20

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QUALITY CONTROL DATA

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 621098

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50286950001

METHOD BLANK: 2862574

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/17/21 22:58	

LABORATORY CONTROL SAMPLE: 2862575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862576 2862577

Parameter	Units	50286944002		2862576		2862577		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Dissolved Organic Carbon	mg/L	ND	10	10	10.4	10.3	98	97	80-120	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862578 2862579

Parameter	Units	50286949010		2862578		2862579		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Dissolved Organic Carbon	mg/L	ND	10	10	9.1	9.1	91	91	80-120	0	20		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Sample: M-4 **Lab ID: 50286950001** Collected: 05/06/21 12:31 Received: 05/07/21 15:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.545 ± 0.508 (0.710) C:NA T:88%	pCi/L	06/11/21 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.41 ± 0.523 (0.791) C:68% T:87%	pCi/L	06/10/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.96 ± 1.03 (1.50)	pCi/L	06/14/21 08:59	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 449080

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286950001

METHOD BLANK: 2167351

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.375 ± 0.296 (0.582) C:72% T:89%	pCi/L	06/10/21 11:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

QC Batch: 449079

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50286950001

METHOD BLANK: 2167350

Matrix: Water

Associated Lab Samples: 50286950001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0328 ± 0.290 (0.630) C:NA T:88%	pCi/L	06/11/21 11:56	

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QUALIFIERS

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St. Profile 1 Report 2

Pace Project No.: 50286950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50286950001	M-4	EPA 9056	621856		
50286950001	M-4	EPA 3010	620424	EPA 6010	620888
50286950001	M-4	EPA 3010	620254	EPA 6010	621448
50286950001	M-4	EPA 200.2	620152	EPA 6020	620441
50286950001	M-4	EPA 903.1	449079		
50286950001	M-4	EPA 904.0	449080		
50286950001	M-4	Total Radium Calculation	452237		
50286950001	M-4	SM 2320B	620285		
50286950001	M-4	SM 2540C	619994		
50286950001	M-4	SM 4500-H+B	619958		
50286950001	M-4	SM 4500-S2-D	619957		
50286950001	M-4	HACH 8146	620720		
50286950001	M-4	EPA 353.2	619640		
50286950001	M-4	EPA 365.1	621250	EPA 365.1	621476
50286950001	M-4	SM 5310C	621317		
50286950001	M-4	SM 5310C	621098		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WZ 8/7/21 1545

1. Courier: FED EX UPS CLIENT PACE USPS OTHER

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 A B C D E F**

4. Cooler Temperature: 542 COMMENTS
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>N03</u>	✓		Circle: <u>HNO3 (52)</u> <u>H2SO4 (2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>1550</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:		✓	

COMMENTS: 2.6/2.0 2.7/2.1 1.4/1.0 2.2/1.6 2.2/1.6 2.2/1.6 2.7/2.1 1.7/1.1 2.2/1.6

Sample Container Count

Sample Line Item	WGUFU	SBS DI BK Kit	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	AG3S Filtered	Matrix	pH <2	pH >9	pH >10	
1													1			2	1	2	1	1	1		1		1		WT	✓	✓	
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	WT	Water
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	SL	Solid
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac	NAL	Non-aqueous liquid
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic	WP	Wipe
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

August 2021

December 15, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 2
Pace Project No.: 50296004

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures

cc: Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50296004001	MW-103S	Water	08/24/21 10:19	08/26/21 14:55
50296004002	MW-103I	Water	08/23/21 13:46	08/26/21 14:55
50296004003	MW-103D	Water	08/23/21 11:42	08/26/21 14:55
50296004004	MW-105S	Water	08/25/21 14:14	08/26/21 14:55
50296004005	MW-105I	Water	08/25/21 13:05	08/26/21 14:55
50296004006	MW-105D	Water	08/24/21 13:28	08/26/21 14:55
50296004007	MW-106S	Water	08/25/21 14:39	08/26/21 14:55
50296004008	DUP-1	Water	08/25/21 08:00	08/26/21 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296004001	MW-103S	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
50296004002	MW-103I	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50296004003	MW-103D	SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296004004	MW-105S	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
50296004005	MW-105I	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
50296004005	MW-105I	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296004006	MW-105D	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296004007	MW-106S	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296004008	DUP-1	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296004001	MW-103S					
EPA 9056	Chloride	62.1	mg/L	2.5	09/10/21 04:42	
EPA 9056	Fluoride	0.21	mg/L	0.10	09/10/21 11:25	
EPA 9056	Sulfate	406	mg/L	25.0	09/10/21 05:00	
EPA 6010	Barium	71.8	ug/L	10.0	09/09/21 08:42	
EPA 6010	Boron	801	ug/L	100	09/09/21 08:42	
EPA 6010	Calcium	298000	ug/L	5000	09/09/21 09:44	
EPA 6010	Molybdenum	19.2	ug/L	10.0	09/09/21 08:42	
EPA 6020	Arsenic	18.0	ug/L	1.0	09/08/21 02:02	
EPA 6020	Cobalt	2.8	ug/L	1.0	09/08/21 02:02	
EPA 903.1	Radium-226	0.620 ± 0.649 (1.02) C:NA T:94%	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	0.516 ± 0.377 (0.731) C:73% T:82%	pCi/L		09/21/21 14:28	
Total Radium Calculation	Total Radium	1.14 ± 1.03 (1.75)	pCi/L		09/22/21 16:01	
SM 2540C	Total Dissolved Solids	1450	mg/L	20.0	08/27/21 08:25	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	08/28/21 09:44	H3
50296004002	MW-103I					
EPA 9056	Chloride	130	mg/L	25.0	09/10/21 05:37	
EPA 9056	Fluoride	0.21	mg/L	0.10	09/10/21 11:42	
EPA 9056	Sulfate	32.4	mg/L	2.5	09/10/21 05:18	
EPA 6010	Barium	245	ug/L	10.0	09/09/21 08:44	
EPA 6010	Boron	259	ug/L	100	09/09/21 08:44	
EPA 6010	Calcium	102000	ug/L	1000	09/09/21 08:44	
EPA 6020	Antimony	3.8	ug/L	1.0	09/08/21 02:25	
EPA 903.1	Radium-226	1.50 ± 0.785 (0.773) C:NA T:90%	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	1.30 ± 0.449 (0.590) C:71% T:92%	pCi/L		09/21/21 14:28	
Total Radium Calculation	Total Radium	2.80 ± 1.23 (1.36)	pCi/L		09/22/21 16:01	
SM 2540C	Total Dissolved Solids	601	mg/L	10.0	08/27/21 08:23	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	08/28/21 09:49	H3
50296004003	MW-103D					
EPA 9056	Chloride	133	mg/L	25.0	09/10/21 06:50	
EPA 9056	Fluoride	0.17	mg/L	0.10	09/10/21 11:59	
EPA 9056	Sulfate	36.2	mg/L	2.5	09/10/21 06:31	
EPA 6010	Barium	273	ug/L	10.0	09/09/21 08:46	
EPA 6010	Boron	329	ug/L	100	09/09/21 08:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296004003	MW-103D					
EPA 6010	Calcium	85800	ug/L	1000	09/09/21 08:46	
EPA 6020	Antimony	16.8	ug/L	1.0	09/08/21 02:29	
EPA 6020	Arsenic	2.2	ug/L	1.0	09/08/21 02:29	
EPA 903.1	Radium-226	0.315 ± 0.439 (0.732)	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	C:NA T:94% 0.831 ± 0.435 (0.772)	pCi/L		09/21/21 14:28	
Total Radium Calculation	Total Radium	C:71% T:87% 1.15 ± 0.874 (1.50)	pCi/L		09/22/21 16:01	
SM 2540C	Total Dissolved Solids	550	mg/L	10.0	08/27/21 08:23	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	08/28/21 09:52	H3
50296004004	MW-105S					
EPA 9056	Chloride	113	mg/L	25.0	09/10/21 07:26	
EPA 9056	Fluoride	0.34	mg/L	0.10	09/10/21 12:17	
EPA 9056	Sulfate	1070	mg/L	25.0	09/10/21 07:26	
EPA 6010	Barium	32.7	ug/L	10.0	09/09/21 08:48	
EPA 6010	Boron	21800	ug/L	100	09/09/21 08:48	
EPA 6010	Calcium	362000	ug/L	5000	09/09/21 09:46	
EPA 6010	Lithium	280	ug/L	20.0	09/09/21 08:48	
EPA 6010	Molybdenum	66.4	ug/L	10.0	09/09/21 08:48	
EPA 6020	Arsenic	5.5	ug/L	1.0	09/08/21 02:34	
EPA 903.1	Radium-226	0.866 ± 0.686 (0.932)	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	C:NA T:92% 0.825 ± 0.460 (0.841)	pCi/L		09/21/21 14:25	
Total Radium Calculation	Total Radium	C:70% T:84% 1.69 ± 1.15 (1.77)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	2020	mg/L	20.0	08/28/21 08:47	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	08/28/21 09:55	H3
50296004005	MW-105I					
EPA 9056	Chloride	115	mg/L	2.5	09/10/21 07:45	
EPA 9056	Fluoride	0.16	mg/L	0.10	09/10/21 12:35	
EPA 9056	Sulfate	73.4	mg/L	2.5	09/10/21 07:45	
EPA 6010	Barium	321	ug/L	10.0	09/09/21 08:51	
EPA 6010	Boron	275	ug/L	100	09/09/21 08:51	
EPA 6010	Calcium	100000	ug/L	1000	09/09/21 08:51	

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296004005	MW-105I					
EPA 903.1	Radium-226	0.857 ± 0.559 (0.573) C:NA T:94%	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	1.25 ± 0.558 (0.943) C:66% T:87%	pCi/L		09/21/21 14:24	
Total Radium Calculation	Total Radium	2.11 ± 1.12 (1.52)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	574	mg/L	10.0	08/28/21 08:47	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	08/28/21 09:57	H3
50296004006	MW-105D					
EPA 9056	Chloride	123	mg/L	2.5	09/09/21 16:10	
EPA 9056	Fluoride	0.18	mg/L	0.10	09/09/21 15:56	
EPA 9056	Sulfate	80.8	mg/L	2.5	09/09/21 16:10	
EPA 6010	Barium	337	ug/L	10.0	09/09/21 08:53	
EPA 6010	Boron	295	ug/L	100	09/09/21 08:53	
EPA 6010	Calcium	99500	ug/L	1000	09/09/21 08:53	
EPA 6020	Arsenic	3.2	ug/L	1.0	09/08/21 02:53	
EPA 903.1	Radium-226	1.08 ± 0.721 (0.895) C:NA T:94%	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	0.847 ± 0.428 (0.746) C:72% T:89%	pCi/L		09/21/21 14:28	
Total Radium Calculation	Total Radium	1.93 ± 1.15 (1.64)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	573	mg/L	10.0	08/28/21 08:45	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	08/28/21 10:00	H3
50296004007	MW-106S					
EPA 9056	Chloride	26.2	mg/L	2.5	09/09/21 16:52	
EPA 9056	Fluoride	0.36	mg/L	0.10	09/09/21 16:38	
EPA 9056	Sulfate	867	mg/L	25.0	09/09/21 17:06	
EPA 6010	Barium	23.3	ug/L	10.0	09/09/21 08:55	
EPA 6010	Boron	446	ug/L	100	09/09/21 08:55	
EPA 6010	Calcium	268000	ug/L	5000	09/09/21 09:49	
EPA 6010	Lithium	24.2	ug/L	20.0	09/09/21 08:55	
EPA 6010	Molybdenum	24.5	ug/L	10.0	09/09/21 08:55	
EPA 6020	Arsenic	2.8	ug/L	1.0	09/08/21 02:57	
EPA 903.1	Radium-226	-0.0778 ± 0.355 (0.722) C:NA T:91%	pCi/L		09/20/21 14:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296004007	MW-106S					
EPA 904.0	Radium-228	1.15 ± 0.630 (1.10) C:72% T:88%	pCi/L		09/21/21 19:55	
Total Radium Calculation	Total Radium	1.15 ± 0.985 (1.82)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1440	mg/L	20.0	08/28/21 08:47	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	08/28/21 10:03	H3
50296004008	DUP-1					
EPA 9056	Chloride	113	mg/L	25.0	09/09/21 18:16	
EPA 9056	Fluoride	0.23	mg/L	0.10	09/09/21 17:20	
EPA 9056	Sulfate	1040	mg/L	25.0	09/09/21 18:16	
EPA 6010	Barium	32.4	ug/L	10.0	09/09/21 08:57	
EPA 6010	Boron	22300	ug/L	100	09/09/21 08:57	
EPA 6010	Calcium	366000	ug/L	5000	09/09/21 09:51	
EPA 6010	Lithium	282	ug/L	20.0	09/09/21 08:57	
EPA 6010	Molybdenum	67.4	ug/L	10.0	09/09/21 08:57	
EPA 6020	Arsenic	5.6	ug/L	1.0	09/08/21 03:02	
EPA 903.1	Radium-226	0.670 ± 0.701 (1.10) C:NA T:92%	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	1.27 ± 0.497 (0.767) C:73% T:84%	pCi/L		09/21/21 14:16	
Total Radium Calculation	Total Radium	1.94 ± 1.20 (1.87)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1970	mg/L	20.0	08/28/21 08:47	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	08/28/21 10:07	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-103S	Lab ID: 50296004001	Collected: 08/24/21 10:19	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	62.1	mg/L	2.5	10		09/10/21 04:42	16887-00-6	
Fluoride	0.21	mg/L	0.10	1		09/10/21 11:25	16984-48-8	
Sulfate	406	mg/L	25.0	100		09/10/21 05:00	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	71.8	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:42	7440-39-3	
Boron	801	ug/L	100	1	09/02/21 13:19	09/09/21 08:42	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:42	7440-43-9	
Calcium	298000	ug/L	5000	5	09/02/21 13:19	09/09/21 09:44	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:42	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:42	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:42	7439-93-2	
Molybdenum	19.2	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:42	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:02	7440-36-0	
Arsenic	18.0	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:02	7440-38-2	
Cobalt	2.8	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:02	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:02	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1450	mg/L	20.0	1		08/27/21 08:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	6.9	Std. Units	0.10	1		08/28/21 09:44		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-1031	Lab ID: 50296004002	Collected: 08/23/21 13:46	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	130	mg/L	25.0	100		09/10/21 05:37	16887-00-6	
Fluoride	0.21	mg/L	0.10	1		09/10/21 11:42	16984-48-8	
Sulfate	32.4	mg/L	2.5	10		09/10/21 05:18	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	245	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:44	7440-39-3	
Boron	259	ug/L	100	1	09/02/21 13:19	09/09/21 08:44	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:44	7440-43-9	
Calcium	102000	ug/L	1000	1	09/02/21 13:19	09/09/21 08:44	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:44	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:44	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:44	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:44	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.8	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:25	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:25	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:25	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:25	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	601	mg/L	10.0	1		08/27/21 08:23		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		08/28/21 09:49		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-103D	Lab ID: 50296004003	Collected: 08/23/21 11:42	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	133	mg/L	25.0	100		09/10/21 06:50	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		09/10/21 11:59	16984-48-8	
Sulfate	36.2	mg/L	2.5	10		09/10/21 06:31	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	273	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:46	7440-39-3	
Boron	329	ug/L	100	1	09/02/21 13:19	09/09/21 08:46	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:46	7440-43-9	
Calcium	85800	ug/L	1000	1	09/02/21 13:19	09/09/21 08:46	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:46	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:46	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:46	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:46	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	16.8	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:29	7440-36-0	
Arsenic	2.2	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:29	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:29	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:29	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	550	mg/L	10.0	1		08/27/21 08:23		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.9	Std. Units	0.10	1		08/28/21 09:52		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-105S	Lab ID: 50296004004	Collected: 08/25/21 14:14	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	113	mg/L	25.0	100		09/10/21 07:26	16887-00-6	
Fluoride	0.34	mg/L	0.10	1		09/10/21 12:17	16984-48-8	
Sulfate	1070	mg/L	25.0	100		09/10/21 07:26	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	32.7	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:48	7440-39-3	
Boron	21800	ug/L	100	1	09/02/21 13:19	09/09/21 08:48	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:48	7440-43-9	
Calcium	362000	ug/L	5000	5	09/02/21 13:19	09/09/21 09:46	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:48	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:48	7439-92-1	
Lithium	280	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:48	7439-93-2	
Molybdenum	66.4	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:48	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:34	7440-36-0	
Arsenic	5.5	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:34	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:34	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:34	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	2020	mg/L	20.0	1		08/28/21 08:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		08/28/21 09:55		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-1051	Lab ID: 50296004005	Collected: 08/25/21 13:05		Received: 08/26/21 14:55		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	115	mg/L	2.5	10		09/10/21 07:45	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		09/10/21 12:35	16984-48-8	
Sulfate	73.4	mg/L	2.5	10		09/10/21 07:45	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	321	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:51	7440-39-3	
Boron	275	ug/L	100	1	09/02/21 13:19	09/09/21 08:51	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:51	7440-43-9	
Calcium	100000	ug/L	1000	1	09/02/21 13:19	09/09/21 08:51	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:51	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:51	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:51	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:51	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:48	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:48	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:48	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:48	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	574	mg/L	10.0	1		08/28/21 08:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		08/28/21 09:57		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-105D	Lab ID: 50296004006	Collected: 08/24/21 13:28	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	123	mg/L	2.5	10		09/09/21 16:10	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		09/09/21 15:56	16984-48-8	
Sulfate	80.8	mg/L	2.5	10		09/09/21 16:10	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	337	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:53	7440-39-3	
Boron	295	ug/L	100	1	09/02/21 13:19	09/09/21 08:53	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:53	7440-43-9	
Calcium	99500	ug/L	1000	1	09/02/21 13:19	09/09/21 08:53	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:53	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:53	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:53	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:53	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:53	7440-36-0	
Arsenic	3.2	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:53	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:53	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:53	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	573	mg/L	10.0	1		08/28/21 08:45		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		08/28/21 10:00		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-106S	Lab ID: 50296004007	Collected: 08/25/21 14:39	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	26.2	mg/L	2.5	10		09/09/21 16:52	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		09/09/21 16:38	16984-48-8	
Sulfate	867	mg/L	25.0	100		09/09/21 17:06	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	23.3	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:55	7440-39-3	
Boron	446	ug/L	100	1	09/02/21 13:19	09/09/21 08:55	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:55	7440-43-9	
Calcium	268000	ug/L	5000	5	09/02/21 13:19	09/09/21 09:49	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:55	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:55	7439-92-1	
Lithium	24.2	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:55	7439-93-2	
Molybdenum	24.5	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:55	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:57	7440-36-0	
Arsenic	2.8	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:57	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:57	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 02:57	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1440	mg/L	20.0	1		08/28/21 08:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		08/28/21 10:03		H3

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: DUP-1	Lab ID: 50296004008	Collected: 08/25/21 08:00	Received: 08/26/21 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	113	mg/L	25.0	100		09/09/21 18:16	16887-00-6	
Fluoride	0.23	mg/L	0.10	1		09/09/21 17:20	16984-48-8	
Sulfate	1040	mg/L	25.0	100		09/09/21 18:16	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	32.4	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:57	7440-39-3	
Boron	22300	ug/L	100	1	09/02/21 13:19	09/09/21 08:57	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 08:57	7440-43-9	
Calcium	366000	ug/L	5000	5	09/02/21 13:19	09/09/21 09:51	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:57	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:57	7439-92-1	
Lithium	282	ug/L	20.0	1	09/02/21 13:19	09/09/21 08:57	7439-93-2	
Molybdenum	67.4	ug/L	10.0	1	09/02/21 13:19	09/09/21 08:57	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 03:02	7440-36-0	
Arsenic	5.6	ug/L	1.0	1	09/02/21 21:15	09/08/21 03:02	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 03:02	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/02/21 21:15	09/08/21 03:02	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1970	mg/L	20.0	1		08/28/21 08:47		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		08/28/21 10:07		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	639303	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005

METHOD BLANK: 2943378 Matrix: Water
Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/09/21 16:21	
Fluoride	mg/L	ND	0.10	09/09/21 16:21	
Sulfate	mg/L	ND	0.25	09/09/21 16:21	

LABORATORY CONTROL SAMPLE: 2943379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	92	80-120	
Fluoride	mg/L	0.5	0.52	104	80-120	
Sulfate	mg/L	2.5	2.5	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943380 2943381

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50295908001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	3.7	1.2	1.2	4.7	4.7	80	79	80-120	0	15	M0	
Fluoride	mg/L	2.1	0.5	0.5	2.5	2.6	81	96	80-120	3	15		
Sulfate	mg/L	2110	250	250	2420	2400	121	114	80-120	1	15	M0	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	639339	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296004006, 50296004007, 50296004008

METHOD BLANK: 2943582 Matrix: Water

Associated Lab Samples: 50296004006, 50296004007, 50296004008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/09/21 15:19	
Fluoride	mg/L	ND	0.10	09/09/21 15:19	
Sulfate	mg/L	ND	0.25	09/09/21 15:19	

LABORATORY CONTROL SAMPLE: 2943583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943584 2943585

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296468001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	11.9	12.5	12.5	24.1	24.2	98	98	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.53	0.53	94	93	80-120	1	15		
Sulfate	mg/L	207	25	25	238	238	122	123	80-120	0	15	M0	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50296004

QC Batch: 637800 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

METHOD BLANK: 2937362 Matrix: Water
Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	09/09/21 08:39	
Boron	ug/L	ND	100	09/09/21 08:39	
Cadmium	ug/L	ND	2.0	09/09/21 08:39	
Calcium	ug/L	ND	1000	09/09/21 08:39	
Chromium	ug/L	ND	10.0	09/09/21 08:39	
Lead	ug/L	ND	10.0	09/09/21 08:39	
Lithium	ug/L	ND	20.0	09/09/21 08:39	
Molybdenum	ug/L	ND	10.0	09/09/21 08:39	

LABORATORY CONTROL SAMPLE: 2937363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1060	106	80-120	
Boron	ug/L	1000	1010	101	80-120	
Cadmium	ug/L	1000	1000	100	80-120	
Calcium	ug/L	5000	5270	105	80-120	
Chromium	ug/L	1000	1050	105	80-120	
Lead	ug/L	1000	992	99	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2937364 2937365

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50296106003 Result	Spike Conc.	Spike Conc.	Result							Result
Barium	ug/L	130	1000	1000	1180	1170	105	104	75-125	1	20	
Boron	ug/L	8230	1000	1000	9140	9010	91	77	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	75-125	1	20	
Calcium	ug/L	159000	5000	5000	160000	157000	14	-38	75-125	2	20	P6
Chromium	ug/L	ND	1000	1000	1040	1040	104	103	75-125	1	20	
Lead	ug/L	ND	1000	1000	959	949	96	95	75-125	1	20	
Lithium	ug/L	63.1	1000	1000	1060	1050	100	99	75-125	1	20	
Molybdenum	ug/L	138	1000	1000	1180	1170	104	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	638392	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008		

METHOD BLANK:	2939462	Matrix:	Water
Associated Lab Samples:	50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	09/08/21 01:53	
Arsenic	ug/L	ND	1.0	09/08/21 01:53	
Cobalt	ug/L	ND	1.0	09/08/21 01:53	
Selenium	ug/L	ND	1.0	09/08/21 01:53	

LABORATORY CONTROL SAMPLE: 2939463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.1	100	80-120	
Arsenic	ug/L	40	37.0	92	80-120	
Cobalt	ug/L	40	38.7	97	80-120	
Selenium	ug/L	40	38.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2939464 2939465

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296004001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.9	41.3	104	102	75-125	1	20
Arsenic	ug/L	18.0	40	40	54.9	54.8	92	92	75-125	0	20
Cobalt	ug/L	2.8	40	40	39.4	39.0	92	90	75-125	1	20
Selenium	ug/L	ND	40	40	38.5	38.5	96	96	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	637474	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296004001, 50296004002, 50296004003

METHOD BLANK: 2935731 Matrix: Water

Associated Lab Samples: 50296004001, 50296004002, 50296004003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/27/21 08:22	

LABORATORY CONTROL SAMPLE: 2935732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 2935733

Parameter	Units	50295893001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10100	10200	2	10	

SAMPLE DUPLICATE: 2935734

Parameter	Units	50295895001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23600	24100	2	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	637663	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

METHOD BLANK: 2936752 Matrix: Water
Associated Lab Samples: 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/28/21 08:45	

LABORATORY CONTROL SAMPLE: 2936753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 2936754

Parameter	Units	50296004006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	573	583	2	10	

SAMPLE DUPLICATE: 2936755

Parameter	Units	50296034001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12300	12300	0	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	637659	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

SAMPLE DUPLICATE: 2936745

Parameter	Units	50295944001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	2	H3

SAMPLE DUPLICATE: 2936746

Parameter	Units	50296106003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	1	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-103S **Lab ID: 50296004001** Collected: 08/24/21 10:19 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.620 ± 0.649 (1.02) C:NA T:94%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.516 ± 0.377 (0.731) C:73% T:82%	pCi/L	09/21/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.14 ± 1.03 (1.75)	pCi/L	09/22/21 16:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-103I **Lab ID: 50296004002** Collected: 08/23/21 13:46 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.50 ± 0.785 (0.773) C:NA T:90%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.30 ± 0.449 (0.590) C:71% T:92%	pCi/L	09/21/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.80 ± 1.23 (1.36)	pCi/L	09/22/21 16:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-103D **Lab ID: 50296004003** Collected: 08/23/21 11:42 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.315 ± 0.439 (0.732) C:NA T:94%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.831 ± 0.435 (0.772) C:71% T:87%	pCi/L	09/21/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.874 (1.50)	pCi/L	09/22/21 16:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-105S **Lab ID: 50296004004** Collected: 08/25/21 14:14 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.866 ± 0.686 (0.932) C:NA T:92%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.825 ± 0.460 (0.841) C:70% T:84%	pCi/L	09/21/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.69 ± 1.15 (1.77)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-105I **Lab ID: 50296004005** Collected: 08/25/21 13:05 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.857 ± 0.559 (0.573) C:NA T:94%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.25 ± 0.558 (0.943) C:66% T:87%	pCi/L	09/21/21 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.11 ± 1.12 (1.52)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-105D **Lab ID: 50296004006** Collected: 08/24/21 13:28 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.08 ± 0.721 (0.895) C:NA T:94%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.847 ± 0.428 (0.746) C:72% T:89%	pCi/L	09/21/21 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.93 ± 1.15 (1.64)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: MW-106S **Lab ID: 50296004007** Collected: 08/25/21 14:39 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0778 ± 0.355 (0.722) C:NA T:91%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.15 ± 0.630 (1.10) C:72% T:88%	pCi/L	09/21/21 19:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.985 (1.82)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Sample: DUP-1 **Lab ID: 50296004008** Collected: 08/25/21 08:00 Received: 08/26/21 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.670 ± 0.701 (1.10) C:NA T:92%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.27 ± 0.497 (0.767) C:73% T:84%	pCi/L	09/21/21 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94 ± 1.20 (1.87)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch:	463273	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

METHOD BLANK: 2236705 Matrix: Water

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.126 ± 0.350 (0.679) C:NA T:89%	pCi/L	09/20/21 13:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

QC Batch: 463275

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

METHOD BLANK: 2236706

Matrix: Water

Associated Lab Samples: 50296004001, 50296004002, 50296004003, 50296004004, 50296004005, 50296004006, 50296004007, 50296004008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0162 ± 0.301 (0.700) C:73% T:83%	pCi/L	09/21/21 11:24	

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QUALIFIERS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296004001	MW-103S	EPA 9056	639303		
50296004002	MW-103I	EPA 9056	639303		
50296004003	MW-103D	EPA 9056	639303		
50296004004	MW-105S	EPA 9056	639303		
50296004005	MW-105I	EPA 9056	639303		
50296004006	MW-105D	EPA 9056	639339		
50296004007	MW-106S	EPA 9056	639339		
50296004008	DUP-1	EPA 9056	639339		
50296004001	MW-103S	EPA 3010	637800	EPA 6010	639250
50296004002	MW-103I	EPA 3010	637800	EPA 6010	639250
50296004003	MW-103D	EPA 3010	637800	EPA 6010	639250
50296004004	MW-105S	EPA 3010	637800	EPA 6010	639250
50296004005	MW-105I	EPA 3010	637800	EPA 6010	639250
50296004006	MW-105D	EPA 3010	637800	EPA 6010	639250
50296004007	MW-106S	EPA 3010	637800	EPA 6010	639250
50296004008	DUP-1	EPA 3010	637800	EPA 6010	639250
50296004001	MW-103S	EPA 200.2	638392	EPA 6020	638682
50296004002	MW-103I	EPA 200.2	638392	EPA 6020	638682
50296004003	MW-103D	EPA 200.2	638392	EPA 6020	638682
50296004004	MW-105S	EPA 200.2	638392	EPA 6020	638682
50296004005	MW-105I	EPA 200.2	638392	EPA 6020	638682
50296004006	MW-105D	EPA 200.2	638392	EPA 6020	638682
50296004007	MW-106S	EPA 200.2	638392	EPA 6020	638682
50296004008	DUP-1	EPA 200.2	638392	EPA 6020	638682
50296004001	MW-103S	EPA 903.1	463273		
50296004002	MW-103I	EPA 903.1	463273		
50296004003	MW-103D	EPA 903.1	463273		
50296004004	MW-105S	EPA 903.1	463273		
50296004005	MW-105I	EPA 903.1	463273		
50296004006	MW-105D	EPA 903.1	463273		
50296004007	MW-106S	EPA 903.1	463273		
50296004008	DUP-1	EPA 903.1	463273		
50296004001	MW-103S	EPA 904.0	463275		
50296004002	MW-103I	EPA 904.0	463275		
50296004003	MW-103D	EPA 904.0	463275		
50296004004	MW-105S	EPA 904.0	463275		
50296004005	MW-105I	EPA 904.0	463275		
50296004006	MW-105D	EPA 904.0	463275		
50296004007	MW-106S	EPA 904.0	463275		
50296004008	DUP-1	EPA 904.0	463275		
50296004001	MW-103S	Total Radium Calculation	465153		
50296004002	MW-103I	Total Radium Calculation	465153		
50296004003	MW-103D	Total Radium Calculation	465153		
50296004004	MW-105S	Total Radium Calculation	465155		
50296004005	MW-105I	Total Radium Calculation	465155		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296004

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296004006	MW-105D	Total Radium Calculation	465155		
50296004007	MW-106S	Total Radium Calculation	465155		
50296004008	DUP-1	Total Radium Calculation	465155		
50296004001	MW-103S	SM 2540C	637474		
50296004002	MW-103I	SM 2540C	637474		
50296004003	MW-103D	SM 2540C	637474		
50296004004	MW-105S	SM 2540C	637663		
50296004005	MW-105I	SM 2540C	637663		
50296004006	MW-105D	SM 2540C	637663		
50296004007	MW-106S	SM 2540C	637663		
50296004008	DUP-1	SM 2540C	637663		
50296004001	MW-103S	SM 4500-H+B	637659		
50296004002	MW-103I	SM 4500-H+B	637659		
50296004003	MW-103D	SM 4500-H+B	637659		
50296004004	MW-105S	SM 4500-H+B	637659		
50296004005	MW-105I	SM 4500-H+B	637659		
50296004006	MW-105D	SM 4500-H+B	637659		
50296004007	MW-106S	SM 4500-H+B	637659		
50296004008	DUP-1	SM 4500-H+B	637659		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: JC AB 8/26/21 1530

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes) Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 A B C D E F
- 4. Cooler Temperature: #1 (5.9/5.4), #2 (2.5/2.0)
Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZNAc pH >9	NaOH pH >10		
1																																
2																																
3																																
4																																
5																																
6																																
7																	2		3		1								WT	✓		
8																	↓		↓		↓											
9																																
10																																
11																																
12																	2		3		1											

ag/r 8/26

Container Codes

Glass

Plastic / Misc.

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

BP4U	125mL unpreserved plastic	
BP4N	125mL HNO3 plastic	
BP4S	125mL H2SO4 plastic	
Syringe Kit	LL Cr+6 sampling kit	
AF	Air Filter	
C	Air Cassettes	
R	Terracore kit	
SP5T	120mL Coliform Na Thiosulfate	
U	Summa Can	
ZPLC	Ziploc Bag	
WT	Water	
SL	Solid	
NAL	OL Non-aqueous liquid	Oil
WP	Wipe	

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFL	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZNAc pH >9	NaOH pH >10	
1																															
2																	2			3	1							WT	✓		
3																															
4																															
5																															
6																															
7																															
8																															
9																	2			3	1							WT	✓		
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

December 16, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding Street Prof 1 Rep 2
Pace Project No.: 50296106

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures

cc: Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50296106001	PZ-100S	Water	08/27/21 10:35	08/27/21 15:25
50296106002	PZ-100D	Water	08/27/21 11:22	08/27/21 15:25
50296106003	PZ-101S	Water	08/27/21 12:49	08/27/21 15:25
50296106004	MW-104D	Water	08/27/21 12:52	08/27/21 15:25
50296106005	MW-106I	Water	08/27/21 11:12	08/27/21 15:25
50296106006	MW-106D	Water	08/27/21 13:05	08/27/21 15:25
50296106007	MW-108S	Water	08/27/21 11:12	08/27/21 15:25
50296106008	MW-108D	Water	08/27/21 10:15	08/27/21 15:25
50296106009	PZ-101S RAD MS	Water	08/27/21 12:49	08/27/21 15:25
50296106010	PZ-101S RAD MSD	Water	08/27/21 12:49	08/27/21 15:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296106001	PZ-100S	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
50296106002	PZ-100D	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50296106003	PZ-101S	SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296106004	MW-104D	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
50296106005	MW-106I	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
50296106005	MW-106I	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296106006	MW-106D	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	CAW, DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296106007	MW-108S	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296106008	MW-108D	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50296106009	PZ-101S RAD MS	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 903.1	SLC	1	PASI-PA
50296106010	PZ-101S RAD MSD	EPA 904.0	VAL	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296106001	PZ-100S					
EPA 9056	Chloride	342	mg/L	25.0	09/11/21 00:28	
EPA 9056	Fluoride	1.9	mg/L	0.10	09/10/21 23:14	
EPA 9056	Sulfate	522	mg/L	25.0	09/11/21 00:28	
EPA 6010	Barium	38.2	ug/L	10.0	09/09/21 09:04	
EPA 6010	Boron	2310	ug/L	100	09/09/21 09:04	
EPA 6010	Calcium	194000	ug/L	1000	09/09/21 09:04	
EPA 6010	Lithium	55.8	ug/L	20.0	09/09/21 09:04	
EPA 6010	Molybdenum	124	ug/L	10.0	09/09/21 09:04	
EPA 6020	Arsenic	2.6	ug/L	1.0	09/08/21 08:07	
EPA 903.1	Radium-226	0.830 ± 0.657 (0.893) C:NA T:93%	pCi/L		09/20/21 13:03	
EPA 904.0	Radium-228	1.36 ± 0.815 (1.55) C:71% T:75%	pCi/L		09/21/21 14:41	
Total Radium Calculation	Total Radium	2.19 ± 1.47 (2.44)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1690	mg/L	20.0	08/28/21 08:49	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	08/28/21 10:09	H3
50296106002	PZ-100D					
EPA 9056	Chloride	205	mg/L	25.0	09/11/21 01:23	
EPA 9056	Fluoride	0.39	mg/L	0.10	09/11/21 00:46	
EPA 9056	Sulfate	545	mg/L	25.0	09/11/21 01:23	
EPA 6010	Barium	54.6	ug/L	10.0	09/09/21 09:06	
EPA 6010	Boron	7650	ug/L	100	09/09/21 09:06	
EPA 6010	Calcium	217000	ug/L	5000	09/09/21 09:57	
EPA 6010	Lithium	67.3	ug/L	20.0	09/09/21 09:06	
EPA 6010	Molybdenum	171	ug/L	10.0	09/09/21 09:06	
EPA 6020	Arsenic	64.1	ug/L	1.0	09/08/21 08:11	
EPA 903.1	Radium-226	0.926 ± 0.763 (1.10) C:NA T:92%	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	0.355 ± 0.346 (0.706) C:67% T:92%	pCi/L		09/21/21 14:27	
Total Radium Calculation	Total Radium	1.28 ± 1.11 (1.81)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1310	mg/L	20.0	08/28/21 08:55	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	08/28/21 10:10	H3
50296106003	PZ-101S					
EPA 9056	Chloride	121	mg/L	2.5	09/11/21 02:36	
EPA 9056	Fluoride	0.19	mg/L	0.10	09/11/21 01:41	
EPA 9056	Sulfate	395	mg/L	25.0	09/11/21 04:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296106003	PZ-101S					
EPA 6010	Barium	130	ug/L	10.0	09/09/21 09:09	
EPA 6010	Boron	8230	ug/L	100	09/09/21 09:09	
EPA 6010	Calcium	159000	ug/L	1000	09/09/21 09:09	
EPA 6010	Lithium	63.1	ug/L	20.0	09/09/21 09:09	
EPA 6010	Molybdenum	138	ug/L	10.0	09/09/21 09:09	
EPA 6020	Arsenic	16.8	ug/L	1.0	09/08/21 08:16	
EPA 903.1	Radium-226	1.03 ± 0.602 (0.691)	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	C:NA T:94% 0.769 ± 0.402 (0.710)	pCi/L		09/21/21 14:27	
		C:72% T:93%				
Total Radium Calculation	Total Radium	0.471 ± 0.776 (1.56)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	958	mg/L	20.0	08/28/21 08:55	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	08/28/21 10:12	H3
50296106004	MW-104D					
EPA 9056	Chloride	123	mg/L	2.5	09/11/21 05:20	
EPA 9056	Fluoride	0.11	mg/L	0.10	09/11/21 05:02	
EPA 9056	Sulfate	491	mg/L	25.0	09/11/21 05:39	
EPA 6010	Barium	57.1	ug/L	10.0	09/09/21 09:19	
EPA 6010	Boron	2640	ug/L	100	09/09/21 09:19	
EPA 6010	Calcium	237000	ug/L	5000	09/09/21 10:00	
EPA 6010	Lithium	20.5	ug/L	20.0	09/09/21 09:19	
EPA 6020	Arsenic	1.4	ug/L	1.0	09/08/21 08:39	
EPA 6020	Selenium	1.0	ug/L	1.0	09/08/21 08:39	
EPA 903.1	Radium-226	0.000 ± 0.554 (1.15) C:NA	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	T:90% 0.365 ± 0.355 (0.727)	pCi/L		09/21/21 14:27	
		C:72% T:85%				
Total Radium Calculation	Total Radium	0.365 ± 0.909 (1.88)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1200	mg/L	20.0	08/28/21 08:56	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	08/28/21 10:15	H3
50296106005	MW-106I					
EPA 9056	Chloride	285	mg/L	25.0	09/11/21 06:34	
EPA 9056	Fluoride	0.35	mg/L	0.10	09/11/21 05:57	
EPA 9056	Sulfate	725	mg/L	25.0	09/11/21 06:34	
EPA 6010	Barium	97.3	ug/L	10.0	09/09/21 09:22	
EPA 6010	Boron	12900	ug/L	100	09/09/21 09:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296106005	MW-106I					
EPA 6010	Calcium	287000	ug/L	5000	09/09/21 10:02	
EPA 6010	Lithium	91.7	ug/L	20.0	09/09/21 09:22	
EPA 6010	Molybdenum	273	ug/L	10.0	09/09/21 09:22	
EPA 6020	Arsenic	93.0	ug/L	1.0	09/08/21 08:53	
EPA 6020	Cobalt	2.1	ug/L	1.0	09/08/21 08:53	
EPA 903.1	Radium-226	1.73 ± 0.868 (0.945)	pCi/L		09/20/21 13:03	
EPA 904.0	Radium-228	C:NA T:94% 0.289 ± 0.652 (1.44)	pCi/L		09/21/21 14:41	
		C:67% T:91%				
Total Radium Calculation	Total Radium	2.02 ± 1.52 (2.39)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1730	mg/L	20.0	08/28/21 08:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	08/28/21 10:15	H3
50296106006	MW-106D					
EPA 9056	Chloride	305	mg/L	25.0	09/11/21 08:05	
EPA 9056	Fluoride	0.28	mg/L	0.10	09/11/21 07:29	
EPA 9056	Sulfate	737	mg/L	25.0	09/11/21 08:05	
EPA 6010	Barium	33.2	ug/L	10.0	09/09/21 09:24	
EPA 6010	Boron	13800	ug/L	100	09/09/21 09:24	
EPA 6010	Calcium	293000	ug/L	5000	09/09/21 10:04	
EPA 6010	Lithium	108	ug/L	20.0	09/09/21 09:24	
EPA 6010	Molybdenum	250	ug/L	10.0	09/09/21 09:24	
EPA 6020	Arsenic	209	ug/L	2.0	09/08/21 16:29	
EPA 903.1	Radium-226	0.324 ± 0.551 (0.972)	pCi/L		09/20/21 13:41	
EPA 904.0	Radium-228	C:NA T:93% 1.21 ± 0.453 (0.669)	pCi/L		09/21/21 14:27	
		C:78% T:86%				
Total Radium Calculation	Total Radium	1.53 ± 1.00 (1.64)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1750	mg/L	20.0	08/28/21 08:56	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	08/28/21 10:17	H3
50296106007	MW-108S					
EPA 9056	Chloride	322	mg/L	25.0	09/11/21 09:00	
EPA 9056	Fluoride	0.39	mg/L	0.10	09/11/21 08:23	
EPA 9056	Sulfate	639	mg/L	25.0	09/11/21 09:00	
EPA 6010	Barium	48.4	ug/L	10.0	09/09/21 09:31	
EPA 6010	Boron	4560	ug/L	100	09/09/21 09:31	
EPA 6010	Calcium	236000	ug/L	5000	09/09/21 10:06	
EPA 6010	Lithium	81.0	ug/L	20.0	09/09/21 09:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296106007	MW-108S					
EPA 6010	Molybdenum	151	ug/L	10.0	09/09/21 09:31	
EPA 903.1	Radium-226	0.514 ± 0.436 (0.540) C:NA T:96%	pCi/L		09/20/21 13:03	
EPA 904.0	Radium-228	0.254 ± 0.639 (1.42) C:72% T:89%	pCi/L		09/21/21 14:41	
Total Radium Calculation	Total Radium	0.768 ± 1.08 (1.96)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1670	mg/L	20.0	08/28/21 08:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	08/28/21 10:19	H3
50296106008	MW-108D					
EPA 9056	Chloride	287	mg/L	25.0	09/11/21 09:55	
EPA 9056	Fluoride	0.57	mg/L	0.10	09/11/21 09:18	
EPA 9056	Sulfate	777	mg/L	25.0	09/11/21 09:55	
EPA 6010	Barium	42.8	ug/L	10.0	09/09/21 09:33	
EPA 6010	Boron	2570	ug/L	100	09/09/21 09:33	
EPA 6010	Calcium	271000	ug/L	5000	09/09/21 10:08	
EPA 6010	Lithium	73.4	ug/L	20.0	09/09/21 09:33	
EPA 6010	Molybdenum	112	ug/L	10.0	09/09/21 09:33	
EPA 903.1	Radium-226	0.322 ± 0.548 (0.967) C:NA T:97%	pCi/L		09/20/21 13:03	
EPA 904.0	Radium-228	0.710 ± 0.815 (1.73) C:65% T:82%	pCi/L		09/21/21 14:41	
Total Radium Calculation	Total Radium	1.03 ± 1.36 (2.70)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1880	mg/L	40.0	08/28/21 08:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	08/28/21 10:20	H3
50296106009	PZ-101S RAD MS					
EPA 903.1	Radium-226	74.34 %REC ± NA (NA) C:NA T:NA	pCi/L		09/20/21 13:52	
EPA 904.0	Radium-228	104.36 %REC ± NA (NA) C:NA T:NA	pCi/L		09/21/21 14:27	
50296106010	PZ-101S RAD MSD					
EPA 903.1	Radium-226	100.32 %REC 29.75 RPD ± NA (NA) C:NA T:NA	pCi/L		09/20/21 13:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296106010	PZ-101S RAD MSD					
EPA 904.0	Radium-228	113.88 %REC 8.73 RPD ± NA (NA) C:NA T:NA	pCi/L		09/21/21 14:27	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-100S	Lab ID: 50296106001	Collected: 08/27/21 10:35	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	342	mg/L	25.0	100		09/11/21 00:28	16887-00-6	
Fluoride	1.9	mg/L	0.10	1		09/10/21 23:14	16984-48-8	
Sulfate	522	mg/L	25.0	100		09/11/21 00:28	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	38.2	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:04	7440-39-3	
Boron	2310	ug/L	100	1	09/02/21 13:19	09/09/21 09:04	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:04	7440-43-9	
Calcium	194000	ug/L	1000	1	09/02/21 13:19	09/09/21 09:04	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:04	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:04	7439-92-1	
Lithium	55.8	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:04	7439-93-2	
Molybdenum	124	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:04	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:07	7440-36-0	
Arsenic	2.6	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:07	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:07	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1690	mg/L	20.0	1		08/28/21 08:49		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		08/28/21 10:09		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-100D	Lab ID: 50296106002	Collected: 08/27/21 11:22	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	205	mg/L	25.0	100		09/11/21 01:23	16887-00-6	
Fluoride	0.39	mg/L	0.10	1		09/11/21 00:46	16984-48-8	
Sulfate	545	mg/L	25.0	100		09/11/21 01:23	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	54.6	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:06	7440-39-3	
Boron	7650	ug/L	100	1	09/02/21 13:19	09/09/21 09:06	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:06	7440-43-9	
Calcium	217000	ug/L	5000	5	09/02/21 13:19	09/09/21 09:57	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:06	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:06	7439-92-1	
Lithium	67.3	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:06	7439-93-2	
Molybdenum	171	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:06	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:11	7440-36-0	
Arsenic	64.1	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:11	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:11	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:11	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1310	mg/L	20.0	1		08/28/21 08:55		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		08/28/21 10:10		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-101S	Lab ID: 50296106003	Collected: 08/27/21 12:49	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	121	mg/L	2.5	10		09/11/21 02:36	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		09/11/21 01:41	16984-48-8	
Sulfate	395	mg/L	25.0	100		09/11/21 04:07	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	130	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:09	7440-39-3	
Boron	8230	ug/L	100	1	09/02/21 13:19	09/09/21 09:09	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:09	7440-43-9	
Calcium	159000	ug/L	1000	1	09/02/21 13:19	09/09/21 09:09	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:09	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:09	7439-92-1	
Lithium	63.1	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:09	7439-93-2	
Molybdenum	138	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:09	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:16	7440-36-0	
Arsenic	16.8	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:16	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:16	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	958	mg/L	20.0	1		08/28/21 08:55		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		08/28/21 10:12		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-104D	Lab ID: 50296106004	Collected: 08/27/21 12:52	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	123	mg/L	2.5	10		09/11/21 05:20	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		09/11/21 05:02	16984-48-8	
Sulfate	491	mg/L	25.0	100		09/11/21 05:39	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	57.1	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:19	7440-39-3	
Boron	2640	ug/L	100	1	09/02/21 13:19	09/09/21 09:19	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:19	7440-43-9	
Calcium	237000	ug/L	5000	5	09/02/21 13:19	09/09/21 10:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:19	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:19	7439-92-1	
Lithium	20.5	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:19	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:19	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:39	7440-36-0	
Arsenic	1.4	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:39	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:39	7440-48-4	
Selenium	1.0	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:39	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1200	mg/L	20.0	1		08/28/21 08:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		08/28/21 10:15		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-106I	Lab ID: 50296106005	Collected: 08/27/21 11:12	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	285	mg/L	25.0	100		09/11/21 06:34	16887-00-6	
Fluoride	0.35	mg/L	0.10	1		09/11/21 05:57	16984-48-8	
Sulfate	725	mg/L	25.0	100		09/11/21 06:34	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	97.3	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:22	7440-39-3	
Boron	12900	ug/L	100	1	09/02/21 13:19	09/09/21 09:22	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:22	7440-43-9	
Calcium	287000	ug/L	5000	5	09/02/21 13:19	09/09/21 10:02	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:22	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:22	7439-92-1	
Lithium	91.7	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:22	7439-93-2	
Molybdenum	273	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:22	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:53	7440-36-0	
Arsenic	93.0	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:53	7440-38-2	
Cobalt	2.1	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:53	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:53	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1730	mg/L	20.0	1		08/28/21 08:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		08/28/21 10:15		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-106D	Lab ID: 50296106006	Collected: 08/27/21 13:05	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	305	mg/L	25.0	100		09/11/21 08:05	16887-00-6	
Fluoride	0.28	mg/L	0.10	1		09/11/21 07:29	16984-48-8	
Sulfate	737	mg/L	25.0	100		09/11/21 08:05	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	33.2	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:24	7440-39-3	
Boron	13800	ug/L	100	1	09/02/21 13:19	09/09/21 09:24	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:24	7440-43-9	
Calcium	293000	ug/L	5000	5	09/02/21 13:19	09/09/21 10:04	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:24	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:24	7439-92-1	
Lithium	108	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:24	7439-93-2	
Molybdenum	250	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:24	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:57	7440-36-0	
Arsenic	209	ug/L	2.0	2	09/07/21 09:00	09/08/21 16:29	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:57	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 08:57	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1750	mg/L	20.0	1		08/28/21 08:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		08/28/21 10:17		H3

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-108S	Lab ID: 50296106007	Collected: 08/27/21 11:12	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	322	mg/L	25.0	100		09/11/21 09:00	16887-00-6	
Fluoride	0.39	mg/L	0.10	1		09/11/21 08:23	16984-48-8	
Sulfate	639	mg/L	25.0	100		09/11/21 09:00	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	48.4	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:31	7440-39-3	
Boron	4560	ug/L	100	1	09/02/21 13:19	09/09/21 09:31	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:31	7440-43-9	
Calcium	236000	ug/L	5000	5	09/02/21 13:19	09/09/21 10:06	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:31	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:31	7439-92-1	
Lithium	81.0	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:31	7439-93-2	
Molybdenum	151	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:31	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:02	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:02	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:02	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:02	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1670	mg/L	20.0	1		08/28/21 08:56		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		08/28/21 10:19		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-108D	Lab ID: 50296106008	Collected: 08/27/21 10:15	Received: 08/27/21 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	287	mg/L	25.0	100		09/11/21 09:55	16887-00-6	
Fluoride	0.57	mg/L	0.10	1		09/11/21 09:18	16984-48-8	
Sulfate	777	mg/L	25.0	100		09/11/21 09:55	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	42.8	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:33	7440-39-3	
Boron	2570	ug/L	100	1	09/02/21 13:19	09/09/21 09:33	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/02/21 13:19	09/09/21 09:33	7440-43-9	
Calcium	271000	ug/L	5000	5	09/02/21 13:19	09/09/21 10:08	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:33	7440-47-3	
Lead	ND	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:33	7439-92-1	
Lithium	73.4	ug/L	20.0	1	09/02/21 13:19	09/09/21 09:33	7439-93-2	
Molybdenum	112	ug/L	10.0	1	09/02/21 13:19	09/09/21 09:33	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:06	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:06	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:06	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:06	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1880	mg/L	40.0	1		08/28/21 08:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		08/28/21 10:20		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2
Pace Project No.: 50296106

QC Batch:	639532	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

METHOD BLANK: 2944566 Matrix: Water
Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/10/21 17:08	
Fluoride	mg/L	ND	0.10	09/10/21 17:08	
Sulfate	mg/L	ND	0.25	09/10/21 17:08	

LABORATORY CONTROL SAMPLE: 2944567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.3	100	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944568 2944569

Parameter	Units	50296106003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	121	125	125	236	237	93	93	80-120	0	15	
Fluoride	mg/L	0.19	0.5	0.5	0.69	0.70	101	103	80-120	1	15	
Sulfate	mg/L	395	250	250	655	652	104	103	80-120	0	15	

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch:	637800	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

METHOD BLANK: 2937362 Matrix: Water

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	09/09/21 08:39	
Boron	ug/L	ND	100	09/09/21 08:39	
Cadmium	ug/L	ND	2.0	09/09/21 08:39	
Calcium	ug/L	ND	1000	09/09/21 08:39	
Chromium	ug/L	ND	10.0	09/09/21 08:39	
Lead	ug/L	ND	10.0	09/09/21 08:39	
Lithium	ug/L	ND	20.0	09/09/21 08:39	
Molybdenum	ug/L	ND	10.0	09/09/21 08:39	

LABORATORY CONTROL SAMPLE: 2937363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1060	106	80-120	
Boron	ug/L	1000	1010	101	80-120	
Cadmium	ug/L	1000	1000	100	80-120	
Calcium	ug/L	5000	5270	105	80-120	
Chromium	ug/L	1000	1050	105	80-120	
Lead	ug/L	1000	992	99	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2937364 2937365

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296106003 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	130	1000	1000	1180	1170	105	104	75-125	1	20
Boron	ug/L	8230	1000	1000	9140	9010	91	77	75-125	1	20
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	75-125	1	20
Calcium	ug/L	159000	5000	5000	160000	157000	14	-38	75-125	2	20 P6
Chromium	ug/L	ND	1000	1000	1040	1040	104	103	75-125	1	20
Lead	ug/L	ND	1000	1000	959	949	96	95	75-125	1	20
Lithium	ug/L	63.1	1000	1000	1060	1050	100	99	75-125	1	20
Molybdenum	ug/L	138	1000	1000	1180	1170	104	103	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch:	638449	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008		

METHOD BLANK:	2939671	Matrix:	Water
Associated Lab Samples:	50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	09/08/21 07:57	
Arsenic	ug/L	ND	1.0	09/08/21 07:57	
Cobalt	ug/L	ND	1.0	09/08/21 07:57	
Selenium	ug/L	ND	1.0	09/08/21 07:57	

LABORATORY CONTROL SAMPLE: 2939672						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.7	102	80-120	
Arsenic	ug/L	40	36.6	91	80-120	
Cobalt	ug/L	40	39.2	98	80-120	
Selenium	ug/L	40	38.6	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2939673												2939674	
Parameter	Units	50296197002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Antimony	ug/L	ND	40	40	42.3	41.9	106	105	75-125	1	20		
Arsenic	ug/L	11.0	40	40	47.6	48.3	92	93	75-125	1	20		
Cobalt	ug/L	2.7	40	40	39.4	38.8	92	90	75-125	2	20		
Selenium	ug/L	ND	40	40	37.2	38.4	93	96	75-125	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2939704												2939705	
Parameter	Units	50296106003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Antimony	ug/L	ND	40	40	41.3	41.3	103	103	75-125	0	20		
Arsenic	ug/L	16.8	40	40	53.5	53.8	92	93	75-125	1	20		
Cobalt	ug/L	ND	40	40	36.7	36.9	91	92	75-125	0	20		
Selenium	ug/L	ND	40	40	38.3	37.9	96	94	75-125	1	20		

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch: 637663

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296106001

METHOD BLANK: 2936752

Matrix: Water

Associated Lab Samples: 50296106001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/28/21 08:45	

LABORATORY CONTROL SAMPLE: 2936753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 2936754

Parameter	Units	50296004006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	573	583	2	10	

SAMPLE DUPLICATE: 2936755

Parameter	Units	50296034001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12300	12300	0	10	

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch: 637664

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

METHOD BLANK: 2936758

Matrix: Water

Associated Lab Samples: 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/28/21 08:55	

LABORATORY CONTROL SAMPLE: 2936759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 2936760

Parameter	Units	50296106003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	958	966	1	10	

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QUALITY CONTROL DATA

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch:	637659	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008

SAMPLE DUPLICATE: 2936745

Parameter	Units	50295944001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	2	H3

SAMPLE DUPLICATE: 2936746

Parameter	Units	50296106003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	1	2	H3

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-100S **Lab ID: 50296106001** Collected: 08/27/21 10:35 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.830 ± 0.657 (0.893) C:NA T:93%	pCi/L	09/20/21 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.36 ± 0.815 (1.55) C:71% T:75%	pCi/L	09/21/21 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.19 ± 1.47 (2.44)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-100D **Lab ID: 50296106002** Collected: 08/27/21 11:22 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.926 ± 0.763 (1.10) C:NA T:92%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.355 ± 0.346 (0.706) C:67% T:92%	pCi/L	09/21/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 1.11 (1.81)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-101S **Lab ID: 50296106003** Collected: 08/27/21 12:49 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.03 ± 0.602 (0.691) C:NA T:94%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.769 ± 0.402 (0.710) C:72% T:93%	pCi/L	09/21/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.471 ± 0.776 (1.56)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-104D **Lab ID: 50296106004** Collected: 08/27/21 12:52 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.554 (1.15) C:NA T:90%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.365 ± 0.355 (0.727) C:72% T:85%	pCi/L	09/21/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.365 ± 0.909 (1.88)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-106I **Lab ID: 50296106005** Collected: 08/27/21 11:12 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.73 ± 0.868 (0.945) C:NA T:94%	pCi/L	09/20/21 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.289 ± 0.652 (1.44) C:67% T:91%	pCi/L	09/21/21 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.02 ± 1.52 (2.39)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-106D **Lab ID: 50296106006** Collected: 08/27/21 13:05 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.324 ± 0.551 (0.972) C:NA T:93%	pCi/L	09/20/21 13:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.21 ± 0.453 (0.669) C:78% T:86%	pCi/L	09/21/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 1.00 (1.64)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-108S **Lab ID: 50296106007** Collected: 08/27/21 11:12 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.514 ± 0.436 (0.540) C:NA T:96%	pCi/L	09/20/21 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.254 ± 0.639 (1.42) C:72% T:89%	pCi/L	09/21/21 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.768 ± 1.08 (1.96)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: MW-108D **Lab ID: 50296106008** Collected: 08/27/21 10:15 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.322 ± 0.548 (0.967) C:NA T:97%	pCi/L	09/20/21 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.710 ± 0.815 (1.73) C:65% T:82%	pCi/L	09/21/21 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03 ± 1.36 (2.70)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-101S RAD MS **Lab ID: 50296106009** Collected: 08/27/21 12:49 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	74.34 %REC ± NA (NA) C:NA T:NA	pCi/L	09/20/21 13:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	104.36 %REC ± NA (NA) C:NA T:NA	pCi/L	09/21/21 14:27	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Sample: PZ-101S RAD MSD **Lab ID: 50296106010** Collected: 08/27/21 12:49 Received: 08/27/21 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	100.32 %REC 29.75 RPD ± NA (NA) C:NA T:NA	pCi/L	09/20/21 13:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	113.88 %REC 8.73 RPD ± NA (NA) C:NA T:NA	pCi/L	09/21/21 14:27	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch: 463273

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008, 50296106009, 50296106010

METHOD BLANK: 2236705

Matrix: Water

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008, 50296106009, 50296106010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.126 ± 0.350 (0.679) C:NA T:89%	pCi/L	09/20/21 13:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

QC Batch: 463275

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008, 50296106009, 50296106010

METHOD BLANK: 2236706

Matrix: Water

Associated Lab Samples: 50296106001, 50296106002, 50296106003, 50296106004, 50296106005, 50296106006, 50296106007, 50296106008, 50296106009, 50296106010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0162 ± 0.301 (0.700) C:73% T:83%	pCi/L	09/21/21 11:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding Street Prof 1 Rep 2

Pace Project No.: 50296106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296106001	PZ-100S	EPA 9056	639532		
50296106002	PZ-100D	EPA 9056	639532		
50296106003	PZ-101S	EPA 9056	639532		
50296106004	MW-104D	EPA 9056	639532		
50296106005	MW-106I	EPA 9056	639532		
50296106006	MW-106D	EPA 9056	639532		
50296106007	MW-108S	EPA 9056	639532		
50296106008	MW-108D	EPA 9056	639532		
50296106001	PZ-100S	EPA 3010	637800	EPA 6010	639250
50296106002	PZ-100D	EPA 3010	637800	EPA 6010	639250
50296106003	PZ-101S	EPA 3010	637800	EPA 6010	639250
50296106004	MW-104D	EPA 3010	637800	EPA 6010	639250
50296106005	MW-106I	EPA 3010	637800	EPA 6010	639250
50296106006	MW-106D	EPA 3010	637800	EPA 6010	639250
50296106007	MW-108S	EPA 3010	637800	EPA 6010	639250
50296106008	MW-108D	EPA 3010	637800	EPA 6010	639250
50296106001	PZ-100S	EPA 200.2	638449	EPA 6020	638986
50296106002	PZ-100D	EPA 200.2	638449	EPA 6020	638986
50296106003	PZ-101S	EPA 200.2	638449	EPA 6020	638986
50296106004	MW-104D	EPA 200.2	638449	EPA 6020	638986
50296106005	MW-106I	EPA 200.2	638449	EPA 6020	638986
50296106006	MW-106D	EPA 200.2	638449	EPA 6020	638986
50296106007	MW-108S	EPA 200.2	638449	EPA 6020	638986
50296106008	MW-108D	EPA 200.2	638449	EPA 6020	638986
50296106001	PZ-100S	EPA 903.1	463273		
50296106002	PZ-100D	EPA 903.1	463273		
50296106003	PZ-101S	EPA 903.1	463273		
50296106004	MW-104D	EPA 903.1	463273		
50296106005	MW-106I	EPA 903.1	463273		
50296106006	MW-106D	EPA 903.1	463273		
50296106007	MW-108S	EPA 903.1	463273		
50296106008	MW-108D	EPA 903.1	463273		
50296106009	PZ-101S RAD MS	EPA 903.1	463273		
50296106010	PZ-101S RAD MSD	EPA 903.1	463273		
50296106001	PZ-100S	EPA 904.0	463275		
50296106002	PZ-100D	EPA 904.0	463275		
50296106003	PZ-101S	EPA 904.0	463275		
50296106004	MW-104D	EPA 904.0	463275		
50296106005	MW-106I	EPA 904.0	463275		
50296106006	MW-106D	EPA 904.0	463275		
50296106007	MW-108S	EPA 904.0	463275		
50296106008	MW-108D	EPA 904.0	463275		
50296106009	PZ-101S RAD MS	EPA 904.0	463275		
50296106010	PZ-101S RAD MSD	EPA 904.0	463275		
50296106001	PZ-100S	Total Radium Calculation	465155		
50296106002	PZ-100D	Total Radium Calculation	465155		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding Street Prof 1 Rep 2
Pace Project No.: 50296106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296106003	PZ-101S	Total Radium Calculation	465155		
50296106004	MW-104D	Total Radium Calculation	465155		
50296106005	MW-106I	Total Radium Calculation	465155		
50296106006	MW-106D	Total Radium Calculation	465155		
50296106007	MW-108S	Total Radium Calculation	465155		
50296106008	MW-108D	Total Radium Calculation	465155		
50296106001	PZ-100S	SM 2540C	637663		
50296106002	PZ-100D	SM 2540C	637664		
50296106003	PZ-101S	SM 2540C	637664		
50296106004	MW-104D	SM 2540C	637664		
50296106005	MW-106I	SM 2540C	637664		
50296106006	MW-106D	SM 2540C	637664		
50296106007	MW-108S	SM 2540C	637664		
50296106008	MW-108D	SM 2540C	637664		
50296106001	PZ-100S	SM 4500-H+B	637659		
50296106002	PZ-100D	SM 4500-H+B	637659		
50296106003	PZ-101S	SM 4500-H+B	637659		
50296106004	MW-104D	SM 4500-H+B	637659		
50296106005	MW-106I	SM 4500-H+B	637659		
50296106006	MW-106D	SM 4500-H+B	637659		
50296106007	MW-108S	SM 4500-H+B	637659		
50296106008	MW-108D	SM 4500-H+B	637659		

REPORT OF LABORATORY ANALYSIS

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WO#: 50296106



50296106

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Edgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Required Project Information:

Section C

Invoice Information:

Page: 1 Of 2

Company: ATC Group Services	Report To: Mark Breting	Attention:
Address: 7988 Centerpoint Drive Indianapolis, IN 46256	Copy To:	Company Name:
Email: mark.breting@atcgs.com	Purchase Order #:	Address:
Phone: NONE Fax:	Project Name: Harding Street Profile 1 Report 2	Pace Quote:
Requested Due Date:	Project #: 170LF01108	Pace Project Manager: hayden.putt@pacelabs.com
		Pace Profile #: 6246 / 28

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)														
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Metals, Total	TDS	(Cl, F, SO4) by IC	pH	Rad-226	Rad-228																			
				DATE	TIME	DATE	TIME																																				
1	M-4	WT																X	X	X	X	X	X																				
2	PZ-100S	WT			8-27-21	1035		6	3									X	X	X	X	X	X																				001
3	PZ-100D	WT			8-27-21	1122		6	3									X	X	X	X	X	X																			002	
4	PZ-101S (MS/MSD-1)	WT			8-27-21	1249		18	9									X	X	X	X	X	X																		003		
5	PZ-101D	WT																X	X	X	X	X	X																				
6	MW-102D	WT																X	X	X	X	X	X																				
7	MW-103S	WT																X	X	X	X	X	X																				
8	MW-103I	WT																X	X	X	X	X	X																				
9	MW-103D	WT																X	X	X	X	X	X																				
10	MW-104S	WT																X	X	X	X	X	X																				
11	MW-104D	WT			8-27-21	1252		6	3									X	X	X	X	X	X																			004	
12	MW-105D	WT																X	X	X	X	X	X																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals: 6010 (Ba, B, Cd, Cr, Pb, Mo, Ca, Li)	J Hill / atc	8-27-21		W. Putt	8-27-21	1525	1,6 Y N Y
6020 (Co, As, Se, Sb)							1,7

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Jan Hill				
SIGNATURE of SAMPLER:	J Hill				
DATE Signed: 8-27-21					



CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: ATC Group Services
 Address: 7988 Centerpoint Drive
 Indianapolis, IN 46256
 Email: mark.breting@atcgs.com
 Phone: NONE Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Mark Breting
 Copy To:
 Purchase Order #:
 Project Name: Harding Street Profile 1 Report 2
 Project #: 170LF01108

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: hayden.putt@pacelabs.com
 Pace Profile #: 6246 / 28

Regulatory Agency
 State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Metals, Total	TDS		(Cl, F, SO4) by IC	pH	Rad-226	Rad-228														
				DATE	TIME	DATE	TIME																															
13	MW-106S	WT																																				
14	MW-106I	WT			8/27/21	1112		6	3	3																												
15	MW-106D	WT			8/27/21	1305		6	3	3																												
16	MW-107S	WT																																				
17	MW-107I	WT																																				
18	MW-107D	WT																																				
19	MW-108S	WT			8-27-21	1112		6	3	3																												
20	MW-108D	WT			8-27-21	1015		6	3	3																												
21	DUP-1	WT																																				
22	DUP-2	WT																																				
23	EQUIPMENT BLANK 1	WT																																				
24																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Metals: 6010 (Ba, B, Cd, Cr, Pb, Mo, Ca, Li)	J Hill / ATC	8-27-21		WJH	8-27-21	1525	1.6			
6020 (Co, As, Se, Sb)							1.7			

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 MARK BRETING
 SIGNATURE of SAMPLER:
 [Signature]

DATE Signed:

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 8-27-21 1540

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: **1 2 3 4 5 6 A B C D E F**
- 4. Cooler Temperature: 1.5/1.6, 1.7/1.8
Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other Ziploc
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (>2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFLU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10	
1																															
2																	2			3	✓							WT		✓	
3																	↓		↓	↓								↓			
4																	0		9	3											
5																															
6																															
7																															
8																															
9																															
10																															
11																	2			3	1							WT		✓	
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFLU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFLU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL OL	Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WG FU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10
1																														
2																	2		3	1							WT	✓		
3																	↓	↓	↓								↓	↓		
4																														
5																														
6																														
7																	2		3	1							WT	✓		
8																	↓	↓	↓								↓	↓		
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL OL	Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

December 16, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 2
Pace Project No.: 50296184

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures

cc: Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50296184001	MW-107S	Water	08/26/21 12:35	08/30/21 14:50
50296184002	MW-107I	Water	08/26/21 11:33	08/30/21 14:50
50296184003	MW-107D	Water	08/26/21 10:22	08/30/21 14:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296184001	MW-107S	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BSW	1	PASI-I
50296184002	MW-107I	SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50296184003	MW-107D	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
Total Radium Calculation	RMK	1	PASI-PA		
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296184001	MW-107S					
EPA 9056	Chloride	315	mg/L	25.0	09/11/21 11:26	
EPA 9056	Fluoride	0.72	mg/L	0.10	09/11/21 10:50	
EPA 9056	Sulfate	847	mg/L	25.0	09/11/21 11:26	
EPA 6010	Barium	19.8	ug/L	10.0	09/08/21 12:15	
EPA 6010	Boron	7190	ug/L	100	09/08/21 12:15	
EPA 6010	Calcium	235000	ug/L	2000	09/08/21 13:19	
EPA 6010	Lithium	61.6	ug/L	20.0	09/08/21 12:15	
EPA 6010	Molybdenum	74.3	ug/L	10.0	09/08/21 12:15	
EPA 903.1	Radium-226	0.925 ± 0.688 (0.905)	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	C:NA T:92% 1.30 ± 0.739 (1.34) C:71% T:89%	pCi/L		09/21/21 19:55	
Total Radium Calculation	Total Radium	2.23 ± 1.43 (2.25)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1850	mg/L	40.0	08/31/21 12:32	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/08/21 14:54	H3
50296184002	MW-107I					
EPA 9056	Chloride	185	mg/L	25.0	09/11/21 12:21	
EPA 9056	Fluoride	0.25	mg/L	0.10	09/11/21 11:45	
EPA 9056	Sulfate	390	mg/L	25.0	09/11/21 12:21	
EPA 6010	Barium	184	ug/L	10.0	09/08/21 12:17	
EPA 6010	Boron	3910	ug/L	100	09/08/21 12:17	
EPA 6010	Calcium	196000	ug/L	1000	09/08/21 12:17	
EPA 6010	Molybdenum	22.5	ug/L	10.0	09/08/21 12:17	
EPA 6020	Arsenic	1.6	ug/L	1.0	09/08/21 09:16	
EPA 903.1	Radium-226	1.27 ± 0.842 (1.11) C:NA T:92%	pCi/L		09/20/21 14:07	
EPA 904.0	Radium-228	0.942 ± 0.684 (1.32) C:71% T:89%	pCi/L		09/21/21 19:55	
Total Radium Calculation	Total Radium	2.21 ± 1.53 (2.43)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1160	mg/L	20.0	08/31/21 12:32	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/08/21 14:51	H3
50296184003	MW-107D					
EPA 9056	Chloride	252	mg/L	25.0	09/11/21 13:16	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/11/21 12:40	
EPA 9056	Sulfate	690	mg/L	25.0	09/11/21 13:16	
EPA 6010	Barium	44.8	ug/L	10.0	09/08/21 12:24	
EPA 6010	Boron	10200	ug/L	100	09/08/21 12:24	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296184003	MW-107D					
EPA 6010	Calcium	234000	ug/L	2000	09/08/21 13:22	
EPA 6010	Lithium	44.2	ug/L	20.0	09/08/21 12:24	
EPA 6010	Molybdenum	221	ug/L	10.0	09/08/21 12:24	
EPA 6020	Arsenic	2.4	ug/L	1.0	09/08/21 09:20	
EPA 903.1	Radium-226	-0.166 ± 0.642 (1.02) C:NA T:95%	pCi/L		09/20/21 14:59	
EPA 904.0	Radium-228	0.343 ± 0.424 (0.901) C:78% T:89%	pCi/L		09/21/21 14:27	
Total Radium Calculation	Total Radium	0.343 ± 1.07 (1.92)	pCi/L		09/22/21 16:02	
SM 2540C	Total Dissolved Solids	1600	mg/L	20.0	08/31/21 12:33	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/08/21 14:48	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-107S		Lab ID: 50296184001	Collected: 08/26/21 12:35	Received: 08/30/21 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	315	mg/L	25.0	100		09/11/21 11:26	16887-00-6	
Fluoride	0.72	mg/L	0.10	1		09/11/21 10:50	16984-48-8	
Sulfate	847	mg/L	25.0	100		09/11/21 11:26	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	19.8	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:15	7440-39-3	
Boron	7190	ug/L	100	1	09/07/21 06:54	09/08/21 12:15	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 12:15	7440-43-9	
Calcium	235000	ug/L	2000	2	09/07/21 06:54	09/08/21 13:19	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:15	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:15	7439-92-1	
Lithium	61.6	ug/L	20.0	1	09/07/21 06:54	09/08/21 12:15	7439-93-2	
Molybdenum	74.3	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:15	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:11	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:11	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:11	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:11	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1850	mg/L	40.0	1		08/31/21 12:32		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/08/21 14:54		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-1071	Lab ID: 50296184002	Collected: 08/26/21 11:33	Received: 08/30/21 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	185	mg/L	25.0	100		09/11/21 12:21	16887-00-6	
Fluoride	0.25	mg/L	0.10	1		09/11/21 11:45	16984-48-8	
Sulfate	390	mg/L	25.0	100		09/11/21 12:21	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	184	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:17	7440-39-3	
Boron	3910	ug/L	100	1	09/07/21 06:54	09/08/21 12:17	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 12:17	7440-43-9	
Calcium	196000	ug/L	1000	1	09/07/21 06:54	09/08/21 12:17	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:17	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:17	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/07/21 06:54	09/08/21 12:17	7439-93-2	
Molybdenum	22.5	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:17	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:16	7440-36-0	
Arsenic	1.6	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:16	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:16	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1160	mg/L	20.0	1		08/31/21 12:32		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/08/21 14:51		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-107D		Lab ID: 50296184003	Collected: 08/26/21 10:22	Received: 08/30/21 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	252	mg/L	25.0	100		09/11/21 13:16	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		09/11/21 12:40	16984-48-8	
Sulfate	690	mg/L	25.0	100		09/11/21 13:16	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	44.8	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:24	7440-39-3	
Boron	10200	ug/L	100	1	09/07/21 06:54	09/08/21 12:24	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 12:24	7440-43-9	
Calcium	234000	ug/L	2000	2	09/07/21 06:54	09/08/21 13:22	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:24	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:24	7439-92-1	
Lithium	44.2	ug/L	20.0	1	09/07/21 06:54	09/08/21 12:24	7439-93-2	
Molybdenum	221	ug/L	10.0	1	09/07/21 06:54	09/08/21 12:24	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:20	7440-36-0	
Arsenic	2.4	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:20	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:20	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 09:20	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1600	mg/L	20.0	1		08/31/21 12:33		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/08/21 14:48		H3

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 639532	Analysis Method: EPA 9056
QC Batch Method: EPA 9056	Analysis Description: 9056 IC Anions
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296184001, 50296184002, 50296184003

METHOD BLANK: 2944566 Matrix: Water

Associated Lab Samples: 50296184001, 50296184002, 50296184003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/10/21 17:08	
Fluoride	mg/L	ND	0.10	09/10/21 17:08	
Sulfate	mg/L	ND	0.25	09/10/21 17:08	

LABORATORY CONTROL SAMPLE: 2944567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.3	100	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944568 2944569

Parameter	Units	50296106003		2944568		2944569		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	121	125	125	236	237	93	93	80-120	0	15		
Fluoride	mg/L	0.19	0.5	0.5	0.69	0.70	101	103	80-120	1	15		
Sulfate	mg/L	395	250	250	655	652	104	103	80-120	0	15		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 638565 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50296184001, 50296184002, 50296184003

METHOD BLANK: 2940278 Matrix: Water

Associated Lab Samples: 50296184001, 50296184002, 50296184003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	09/08/21 12:11	
Boron	ug/L	ND	100	09/08/21 12:11	
Cadmium	ug/L	ND	2.0	09/08/21 12:11	
Calcium	ug/L	ND	1000	09/08/21 12:11	
Chromium	ug/L	ND	10.0	09/08/21 12:11	
Lead	ug/L	ND	10.0	09/08/21 12:11	
Lithium	ug/L	ND	20.0	09/08/21 12:11	
Molybdenum	ug/L	ND	10.0	09/08/21 12:11	

LABORATORY CONTROL SAMPLE: 2940279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	979	98	80-120	
Calcium	ug/L	5000	4990	100	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Lead	ug/L	1000	1000	100	80-120	
Lithium	ug/L	1000	998	100	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2940280 2940281

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296184003 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	ug/L	44.8	1000	1000	1030	1030	99	98	75-125	0	20
Boron	ug/L	10200	1000	1000	11200	11200	104	105	75-125	0	20
Cadmium	ug/L	ND	1000	1000	989	982	99	98	75-125	1	20
Calcium	ug/L	234000	5000	5000	234000	230000	-4	-76	75-125	2	20 P6
Chromium	ug/L	ND	1000	1000	996	999	100	100	75-125	0	20
Lead	ug/L	ND	1000	1000	946	936	94	93	75-125	1	20
Lithium	ug/L	44.2	1000	1000	1020	1010	97	97	75-125	0	20
Molybdenum	ug/L	221	1000	1000	1250	1240	103	102	75-125	0	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50296184

QC Batch: 638449 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296184001, 50296184002, 50296184003

METHOD BLANK: 2939671 Matrix: Water

Associated Lab Samples: 50296184001, 50296184002, 50296184003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	09/08/21 07:57	
Arsenic	ug/L	ND	1.0	09/08/21 07:57	
Cobalt	ug/L	ND	1.0	09/08/21 07:57	
Selenium	ug/L	ND	1.0	09/08/21 07:57	

LABORATORY CONTROL SAMPLE: 2939672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.7	102	80-120	
Arsenic	ug/L	40	36.6	91	80-120	
Cobalt	ug/L	40	39.2	98	80-120	
Selenium	ug/L	40	38.6	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2939673 2939674

Parameter	Units	50296197002 Result	MS Spike Conc.	MSD Spike Conc.	2939673		2939674		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Antimony	ug/L	ND	40	40	42.3	41.9	106	105	75-125	1	20	
Arsenic	ug/L	11.0	40	40	47.6	48.3	92	93	75-125	1	20	
Cobalt	ug/L	2.7	40	40	39.4	38.8	92	90	75-125	2	20	
Selenium	ug/L	ND	40	40	37.2	38.4	93	96	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2939704 2939705

Parameter	Units	50296106003 Result	MS Spike Conc.	MSD Spike Conc.	2939704		2939705		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Antimony	ug/L	ND	40	40	41.3	41.3	103	103	75-125	0	20	
Arsenic	ug/L	16.8	40	40	53.5	53.8	92	93	75-125	1	20	
Cobalt	ug/L	ND	40	40	36.7	36.9	91	92	75-125	0	20	
Selenium	ug/L	ND	40	40	38.3	37.9	96	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 637773	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296184001, 50296184002, 50296184003

METHOD BLANK: 2937296 Matrix: Water

Associated Lab Samples: 50296184001, 50296184002, 50296184003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/31/21 12:27	

LABORATORY CONTROL SAMPLE: 2937297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	80-120	

SAMPLE DUPLICATE: 2937340

Parameter	Units	50296154011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	524	541	3	10	

SAMPLE DUPLICATE: 2937341

Parameter	Units	50296154012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	491	510	4	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch:	639139	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296184001, 50296184002, 50296184003

SAMPLE DUPLICATE: 2942749

Parameter	Units	50296158008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

SAMPLE DUPLICATE: 2942750

Parameter	Units	50296158015 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-107S **Lab ID: 50296184001** Collected: 08/26/21 12:35 Received: 08/30/21 14:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.925 ± 0.688 (0.905) C:NA T:92%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.30 ± 0.739 (1.34) C:71% T:89%	pCi/L	09/21/21 19:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.23 ± 1.43 (2.25)	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-1071 **Lab ID: 50296184002** Collected: 08/26/21 11:33 Received: 08/30/21 14:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.27 ± 0.842 (1.11) C:NA T:92%	pCi/L	09/20/21 14:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.942 ± 0.684 (1.32) C:71% T:89%	pCi/L	09/21/21 19:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.21 ± 1.53 (2.43)	pCi/L	09/22/21 16:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Sample: MW-107D **Lab ID: 50296184003** Collected: 08/26/21 10:22 Received: 08/30/21 14:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.166 ± 0.642 (1.02) C:NA T:95%	pCi/L	09/20/21 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.343 ± 0.424 (0.901) C:78% T:89%	pCi/L	09/21/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.343 ± 1.07 (1.92)	pCi/L	09/22/21 16:02	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 463273

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296184001, 50296184002

METHOD BLANK: 2236705

Matrix: Water

Associated Lab Samples: 50296184001, 50296184002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.126 ± 0.350 (0.679) C:NA T:89%	pCi/L	09/20/21 13:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 463275

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296184001, 50296184002

METHOD BLANK: 2236706

Matrix: Water

Associated Lab Samples: 50296184001, 50296184002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0162 ± 0.301 (0.700) C:73% T:83%	pCi/L	09/21/21 11:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 463917

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296184003

METHOD BLANK: 2239838

Matrix: Water

Associated Lab Samples: 50296184003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.588 ± 0.363 (0.679) C:79% T:85%	pCi/L	09/21/21 11:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

QC Batch: 463916

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296184003

METHOD BLANK: 2239837

Matrix: Water

Associated Lab Samples: 50296184003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.125 ± 0.346 (0.672) C:NA T:94%	pCi/L	09/20/21 14:22	

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QUALIFIERS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296184

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296184001	MW-107S	EPA 9056	639532		
50296184002	MW-107I	EPA 9056	639532		
50296184003	MW-107D	EPA 9056	639532		
50296184001	MW-107S	EPA 3010	638565	EPA 6010	639064
50296184002	MW-107I	EPA 3010	638565	EPA 6010	639064
50296184003	MW-107D	EPA 3010	638565	EPA 6010	639064
50296184001	MW-107S	EPA 200.2	638449	EPA 6020	638986
50296184002	MW-107I	EPA 200.2	638449	EPA 6020	638986
50296184003	MW-107D	EPA 200.2	638449	EPA 6020	638986
50296184001	MW-107S	EPA 903.1	463273		
50296184002	MW-107I	EPA 903.1	463273		
50296184003	MW-107D	EPA 903.1	463916		
50296184001	MW-107S	EPA 904.0	463275		
50296184002	MW-107I	EPA 904.0	463275		
50296184003	MW-107D	EPA 904.0	463917		
50296184001	MW-107S	Total Radium Calculation	465155		
50296184002	MW-107I	Total Radium Calculation	465155		
50296184003	MW-107D	Total Radium Calculation	465155		
50296184001	MW-107S	SM 2540C	637773		
50296184002	MW-107I	SM 2540C	637773		
50296184003	MW-107D	SM 2540C	637773		
50296184001	MW-107S	SM 4500-H+B	639139		
50296184002	MW-107I	SM 4500-H+B	639139		
50296184003	MW-107D	SM 4500-H+B	639139		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company:	ATC Group Services	Report To:	Mark Breting	Attention:			
Address:	7988 Centerpoint Drive Indianapolis, IN 46256	Copy To:		Company Name:			
Email:	mark.breting@atcgs.com	Purchase Order #:		Address:			
Phone:	NONE	Project Name:	Harding Street Profile 1 Report 2	Pace Quote:			
Fax:		Project #:	170LF01108	Pace Project Manager:	hayden.putt@pacelabs.com	State / Location	
Requested Due Date:				Pace Profile #:	6246 / 28	IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)						
				START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				Metals, Total	TDS	(Cl, F, SO4) by IC	pH	Rad-226	Rad-228
13	MW-106S	WT																								
14	MW-106I	WT																								
15	MW-106D	WT																								
16	MW-107S	WT			8/26/21	1235			6	3																001
17	MW-107I	WT			8/26/21	1133			6	3																002
18	MW-107D	WT			8/26/21	1022			6	3																003
19	MW-108S	WT																								
20	MW-108D	WT																								
21	DUP-1	WT																								
22	DUP-2	WT																								
23	EQUIPMENT BLANK 1	WT																								
24																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
* Metals: 6010 (Ba, B, Cd, Cr, Pb, Mo, Ca, Li)	<i>Mark Breting / ATC</i>	8/30/21	1420	<i>John Palmer</i>	8/30/21	1420							
6020 (Co, As, Se, Sb)	<i>John Palmer</i>	8/30/21	1450	<i>JC</i>	8/30/21	1450	Z1	Y	N	Y			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Impact (Y/N)
PRINT Name of SAMPLER: <i>Colton Palmer</i>						
SIGNATURE of SAMPLER: <i>Mark Breting</i>						
DATE Signed: <i>8/30/21</i>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: JK AB 8/20/21 1510

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 A B C D E F
4. Cooler Temperature: 2.1/2.1
 Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent <input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10	
1																															
2																															
3																															
4																	2		3		1								2		
5																↓		↓		↓								↓			
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9U	40mL unreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unreserved plastic	U	Summa Can
WGKU	8oz unreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

December 16, 2021

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Harding St Profile 1 Report 2
Pace Project No.: 50296303

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures

cc: Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50296303001	PZ-101D	Water	08/29/21 10:23	08/31/21 15:15
50296303002	MW-102D	Water	08/29/21 12:00	08/31/21 15:15
50296303003	MW-102S	Water	08/29/21 13:30	08/31/21 15:15
50296303004	EQUIPMENT BLANK 1	Water	08/29/21 10:00	08/31/21 15:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50296303001	PZ-101D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50296303002	MW-102D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50296303003	MW-102S	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50296303004	EQUIPMENT BLANK 1	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	CAW	4	PASI-I
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50296303001	PZ-101D					
EPA 9056	Chloride	108	mg/L	25.0	09/14/21 17:14	
EPA 9056	Fluoride	0.19	mg/L	0.10	09/14/21 15:25	
EPA 9056	Sulfate	367	mg/L	25.0	09/14/21 17:14	
EPA 6010	Barium	55.6	ug/L	10.0	09/08/21 13:01	
EPA 6010	Boron	8930	ug/L	100	09/08/21 13:01	
EPA 6010	Calcium	146000	ug/L	1000	09/08/21 13:01	
EPA 6010	Lithium	89.9	ug/L	20.0	09/08/21 13:01	
EPA 6010	Molybdenum	273	ug/L	10.0	09/08/21 13:01	
EPA 6020	Arsenic	4.3	ug/L	1.0	09/08/21 15:38	
EPA 903.1	Radium-226	0.387 ± 0.590 (0.920) C:NA T:97%	pCi/L		09/24/21 14:32	
EPA 904.0	Radium-228	1.00 ± 0.619 (1.16) C:70% T:88%	pCi/L		09/23/21 18:18	
Total Radium Calculation	Total Radium	1.39 ± 1.21 (2.08)	pCi/L		09/27/21 15:44	
SM 2540C	Total Dissolved Solids	943	mg/L	10.0	09/01/21 09:05	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/02/21 14:30	H3
50296303002	MW-102D					
EPA 9056	Chloride	155	mg/L	25.0	09/15/21 11:15	
EPA 9056	Fluoride	0.16	mg/L	0.10	09/14/21 18:45	
EPA 9056	Sulfate	1140	mg/L	25.0	09/15/21 11:15	
EPA 6010	Barium	56.9	ug/L	10.0	09/08/21 13:03	
EPA 6010	Boron	22000	ug/L	100	09/08/21 13:03	
EPA 6010	Calcium	343000	ug/L	2000	09/08/21 15:56	
EPA 6010	Lithium	47.7	ug/L	20.0	09/08/21 13:03	
EPA 6010	Molybdenum	501	ug/L	10.0	09/08/21 13:03	
EPA 6020	Arsenic	53.2	ug/L	1.0	09/08/21 15:43	
EPA 903.1	Radium-226	0.502 ± 0.447 (0.600) C:NA T:96%	pCi/L		09/24/21 14:43	
EPA 904.0	Radium-228	1.08 ± 0.510 (0.832) C:76% T:91%	pCi/L		09/23/21 18:19	
Total Radium Calculation	Total Radium	1.58 ± 0.957 (1.43)	pCi/L		09/27/21 15:44	
SM 2540C	Total Dissolved Solids	2060	mg/L	20.0	09/01/21 09:05	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/02/21 14:32	H3
50296303003	MW-102S					
EPA 9056	Chloride	221	mg/L	25.0	09/15/21 11:32	
EPA 9056	Fluoride	0.39	mg/L	0.10	09/14/21 19:22	
EPA 9056	Sulfate	661	mg/L	25.0	09/15/21 11:32	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50296303003	MW-102S					
EPA 6010	Barium	57.9	ug/L	10.0	09/08/21 13:06	
EPA 6010	Boron	5960	ug/L	100	09/08/21 13:06	
EPA 6010	Calcium	244000	ug/L	2000	09/08/21 15:58	
EPA 6010	Lithium	46.8	ug/L	20.0	09/08/21 13:06	
EPA 6010	Molybdenum	39.1	ug/L	10.0	09/08/21 13:06	
EPA 6020	Arsenic	16.8	ug/L	1.0	09/08/21 15:47	
EPA 6020	Cobalt	2.2	ug/L	1.0	09/08/21 15:47	
EPA 903.1	Radium-226	0.656 ± 0.508 (0.642)	pCi/L		09/24/21 14:32	
EPA 904.0	Radium-228	C:NA T:89% 0.319 ± 0.572 (1.25)	pCi/L		09/23/21 18:19	
		C:74% T:75%				
Total Radium Calculation	Total Radium	0.975 ± 1.08 (1.89)	pCi/L		09/27/21 15:44	
SM 2540C	Total Dissolved Solids	1640	mg/L	20.0	09/01/21 09:06	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/02/21 14:34	H3
50296303004	EQUIPMENT BLANK 1					
EPA 903.1	Radium-226	0.594 ± 0.492 (0.639)	pCi/L		09/24/21 14:32	
EPA 904.0	Radium-228	C:NA T:90% 0.621 ± 0.548 (1.11)	pCi/L		09/23/21 18:19	
		C:74% T:85%				
Total Radium Calculation	Total Radium	1.22 ± 1.04 (1.75)	pCi/L		09/27/21 15:44	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	09/02/21 14:37	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: PZ-101D	Lab ID: 50296303001	Collected: 08/29/21 10:23	Received: 08/31/21 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	108	mg/L	25.0	100		09/14/21 17:14	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		09/14/21 15:25	16984-48-8	
Sulfate	367	mg/L	25.0	100		09/14/21 17:14	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	55.6	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:01	7440-39-3	
Boron	8930	ug/L	100	1	09/07/21 06:54	09/08/21 13:01	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 13:01	7440-43-9	
Calcium	146000	ug/L	1000	1	09/07/21 06:54	09/08/21 13:01	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:01	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:01	7439-92-1	
Lithium	89.9	ug/L	20.0	1	09/07/21 06:54	09/08/21 13:01	7439-93-2	
Molybdenum	273	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:01	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:38	7440-36-0	
Arsenic	4.3	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:38	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:38	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:38	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	943	mg/L	10.0	1		09/01/21 09:05		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/02/21 14:30		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: MW-102D	Lab ID: 50296303002	Collected: 08/29/21 12:00	Received: 08/31/21 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	155	mg/L	25.0	100		09/15/21 11:15	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		09/14/21 18:45	16984-48-8	
Sulfate	1140	mg/L	25.0	100		09/15/21 11:15	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	56.9	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:03	7440-39-3	
Boron	22000	ug/L	100	1	09/07/21 06:54	09/08/21 13:03	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 13:03	7440-43-9	
Calcium	343000	ug/L	2000	2	09/07/21 06:54	09/08/21 15:56	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:03	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:03	7439-92-1	
Lithium	47.7	ug/L	20.0	1	09/07/21 06:54	09/08/21 13:03	7439-93-2	
Molybdenum	501	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:03	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:43	7440-36-0	
Arsenic	53.2	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:43	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:43	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:43	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2060	mg/L	20.0	1		09/01/21 09:05		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/02/21 14:32		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: MW-102S	Lab ID: 50296303003	Collected: 08/29/21 13:30	Received: 08/31/21 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	221	mg/L	25.0	100		09/15/21 11:32	16887-00-6	
Fluoride	0.39	mg/L	0.10	1		09/14/21 19:22	16984-48-8	
Sulfate	661	mg/L	25.0	100		09/15/21 11:32	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	57.9	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:06	7440-39-3	
Boron	5960	ug/L	100	1	09/07/21 06:54	09/08/21 13:06	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 13:06	7440-43-9	
Calcium	244000	ug/L	2000	2	09/07/21 06:54	09/08/21 15:58	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:06	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:06	7439-92-1	
Lithium	46.8	ug/L	20.0	1	09/07/21 06:54	09/08/21 13:06	7439-93-2	
Molybdenum	39.1	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:06	7439-98-7	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:47	7440-36-0	
Arsenic	16.8	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:47	7440-38-2	
Cobalt	2.2	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:47	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:47	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1640	mg/L	20.0	1		09/01/21 09:06		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/02/21 14:34		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: EQUIPMENT BLANK 1	Lab ID: 50296303004	Collected: 08/29/21 10:00	Received: 08/31/21 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	ND	mg/L	0.25	1		09/14/21 19:58	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/14/21 19:58	16984-48-8	
Sulfate	ND	mg/L	0.25	1		09/14/21 19:58	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Barium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:08	7440-39-3	
Boron	ND	ug/L	100	1	09/07/21 06:54	09/08/21 13:08	7440-42-8	
Cadmium	ND	ug/L	2.0	1	09/07/21 06:54	09/08/21 13:08	7440-43-9	
Calcium	ND	ug/L	1000	1	09/07/21 06:54	09/08/21 13:08	7440-70-2	
Chromium	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:08	7440-47-3	
Lead	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:08	7439-92-1	
Lithium	ND	ug/L	20.0	1	09/07/21 06:54	09/08/21 13:08	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	09/07/21 06:54	09/08/21 13:08	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:52	7440-36-0	
Arsenic	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:52	7440-38-2	
Cobalt	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:52	7440-48-4	
Selenium	ND	ug/L	1.0	1	09/07/21 09:00	09/08/21 15:52	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	ND	mg/L	10.0	1		09/01/21 09:06		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/02/21 14:37		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch:	639726	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2945953 Matrix: Water
Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/14/21 14:50	
Fluoride	mg/L	ND	0.10	09/14/21 14:50	
Sulfate	mg/L	ND	0.25	09/14/21 14:50	

LABORATORY CONTROL SAMPLE: 2945954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	0.5	0.48	95	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2945955 2945956

Parameter	Units	50296303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	108	125	125	228	229	96	97	80-120	1	15	
Fluoride	mg/L	0.19	0.5	0.5	0.67	0.70	96	101	80-120	4	15	
Sulfate	mg/L	367	250	250	623	631	102	105	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2
Pace Project No.: 50296303

QC Batch: 638565 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2940278 Matrix: Water
Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	09/08/21 12:11	
Boron	ug/L	ND	100	09/08/21 12:11	
Cadmium	ug/L	ND	2.0	09/08/21 12:11	
Calcium	ug/L	ND	1000	09/08/21 12:11	
Chromium	ug/L	ND	10.0	09/08/21 12:11	
Lead	ug/L	ND	10.0	09/08/21 12:11	
Lithium	ug/L	ND	20.0	09/08/21 12:11	
Molybdenum	ug/L	ND	10.0	09/08/21 12:11	

LABORATORY CONTROL SAMPLE: 2940279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	979	98	80-120	
Calcium	ug/L	5000	4990	100	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Lead	ug/L	1000	1000	100	80-120	
Lithium	ug/L	1000	998	100	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2940280 2940281

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296184003 Result	Spike Conc.	Spike Conc.	Conc.								
Barium	ug/L	44.8	1000	1000	1030	1030	99	98	75-125	0	20		
Boron	ug/L	10200	1000	1000	11200	11200	104	105	75-125	0	20		
Cadmium	ug/L	ND	1000	1000	989	982	99	98	75-125	1	20		
Calcium	ug/L	234000	5000	5000	234000	230000	-4	-76	75-125	2	20	P6	
Chromium	ug/L	ND	1000	1000	996	999	100	100	75-125	0	20		
Lead	ug/L	ND	1000	1000	946	936	94	93	75-125	1	20		
Lithium	ug/L	44.2	1000	1000	1020	1010	97	97	75-125	0	20		
Molybdenum	ug/L	221	1000	1000	1250	1240	103	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch: 638817 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2941743 Matrix: Water
 Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	09/08/21 15:29	
Arsenic	ug/L	ND	1.0	09/08/21 15:29	
Cobalt	ug/L	ND	1.0	09/08/21 15:29	
Selenium	ug/L	ND	1.0	09/08/21 15:29	

LABORATORY CONTROL SAMPLE: 2941744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.8	105	80-120	
Arsenic	ug/L	40	38.9	97	80-120	
Cobalt	ug/L	40	40.4	101	80-120	
Selenium	ug/L	40	38.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2941745 2941746

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50296309002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.1	43.0	107	107	75-125	0	20
Arsenic	ug/L	ND	40	40	39.7	39.5	99	98	75-125	0	20
Cobalt	ug/L	ND	40	40	37.5	37.8	93	94	75-125	1	20
Selenium	ug/L	1.9	40	40	41.0	40.5	98	96	75-125	1	20

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch: 638139

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2938502

Matrix: Water

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/01/21 09:03	

LABORATORY CONTROL SAMPLE: 2938503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2938504

Parameter	Units	50296295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	505	525	4	10	

SAMPLE DUPLICATE: 2938520

Parameter	Units	50296303002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2060	2070	0	10	

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QUALITY CONTROL DATA

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch: 638454

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

SAMPLE DUPLICATE: 2939694

Parameter	Units	50296220001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	1	2	H3

SAMPLE DUPLICATE: 2939695

Parameter	Units	50296303001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: PZ-101D **Lab ID: 50296303001** Collected: 08/29/21 10:23 Received: 08/31/21 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.387 ± 0.590 (0.920) C:NA T:97%	pCi/L	09/24/21 14:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.00 ± 0.619 (1.16) C:70% T:88%	pCi/L	09/23/21 18:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.39 ± 1.21 (2.08)	pCi/L	09/27/21 15:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: MW-102D **Lab ID: 50296303002** Collected: 08/29/21 12:00 Received: 08/31/21 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.502 ± 0.447 (0.600) C:NA T:96%	pCi/L	09/24/21 14:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.08 ± 0.510 (0.832) C:76% T:91%	pCi/L	09/23/21 18:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.58 ± 0.957 (1.43)	pCi/L	09/27/21 15:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: MW-102S **Lab ID: 50296303003** Collected: 08/29/21 13:30 Received: 08/31/21 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.656 ± 0.508 (0.642) C:NA T:89%	pCi/L	09/24/21 14:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.319 ± 0.572 (1.25) C:74% T:75%	pCi/L	09/23/21 18:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.975 ± 1.08 (1.89)	pCi/L	09/27/21 15:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Sample: EQUIPMENT BLANK 1 **Lab ID: 50296303004** Collected: 08/29/21 10:00 Received: 08/31/21 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.594 ± 0.492 (0.639) C:NA T:90%	pCi/L	09/24/21 14:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.621 ± 0.548 (1.11) C:74% T:85%	pCi/L	09/23/21 18:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.22 ± 1.04 (1.75)	pCi/L	09/27/21 15:44	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch: 463934

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2239853

Matrix: Water

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0219 ± 0.223 (0.368) C:NA T:93%	pCi/L	09/24/21 14:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

QC Batch: 463935

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

METHOD BLANK: 2239854

Matrix: Water

Associated Lab Samples: 50296303001, 50296303002, 50296303003, 50296303004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.773 ± 0.388 (0.651) C:74% T:76%	pCi/L	09/23/21 14:32	

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QUALIFIERS

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Harding St Profile 1 Report 2

Pace Project No.: 50296303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50296303001	PZ-101D	EPA 9056	639726		
50296303002	MW-102D	EPA 9056	639726		
50296303003	MW-102S	EPA 9056	639726		
50296303004	EQUIPMENT BLANK 1	EPA 9056	639726		
50296303001	PZ-101D	EPA 3010	638565	EPA 6010	639064
50296303002	MW-102D	EPA 3010	638565	EPA 6010	639064
50296303003	MW-102S	EPA 3010	638565	EPA 6010	639064
50296303004	EQUIPMENT BLANK 1	EPA 3010	638565	EPA 6010	639064
50296303001	PZ-101D	EPA 200.2	638817	EPA 6020	638987
50296303002	MW-102D	EPA 200.2	638817	EPA 6020	638987
50296303003	MW-102S	EPA 200.2	638817	EPA 6020	638987
50296303004	EQUIPMENT BLANK 1	EPA 200.2	638817	EPA 6020	638987
50296303001	PZ-101D	EPA 903.1	463934		
50296303002	MW-102D	EPA 903.1	463934		
50296303003	MW-102S	EPA 903.1	463934		
50296303004	EQUIPMENT BLANK 1	EPA 903.1	463934		
50296303001	PZ-101D	EPA 904.0	463935		
50296303002	MW-102D	EPA 904.0	463935		
50296303003	MW-102S	EPA 904.0	463935		
50296303004	EQUIPMENT BLANK 1	EPA 904.0	463935		
50296303001	PZ-101D	Total Radium Calculation	465783		
50296303002	MW-102D	Total Radium Calculation	465783		
50296303003	MW-102S	Total Radium Calculation	465783		
50296303004	EQUIPMENT BLANK 1	Total Radium Calculation	465783		
50296303001	PZ-101D	SM 2540C	638139		
50296303002	MW-102D	SM 2540C	638139		
50296303003	MW-102S	SM 2540C	638139		
50296303004	EQUIPMENT BLANK 1	SM 2540C	638139		
50296303001	PZ-101D	SM 4500-H+B	638454		
50296303002	MW-102D	SM 4500-H+B	638454		
50296303003	MW-102S	SM 4500-H+B	638454		
50296303004	EQUIPMENT BLANK 1	SM 4500-H+B	638454		

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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.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: ATC Group Services
 Address: 7988 Centerpoint Drive
 Indianapolis, IN 46256
 Email: mark.breting@atcgs.com
 Phone: NONE Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Mark Breting
 Copy To:
 Purchase Order #:
 Project Name: Harding Street Profile 1 Report 2
 Project #: 170LF01108

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: hayden.putt@pacelabs.com
 Pace Profile #: 6246 / 28

Regulatory Agency:
 State / Location: IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	COLLECTED	START	END	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)					
											MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Metals, Total	TDS		(Cl, F, SO4) by IC	pH	Rad-226	Rad-228	
											DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME		DATE	TIME	DATE	TIME	DATE
13	MW-106S	WT									X	X	X	X	X	X												
14	MW-106I	WT									X	X	X	X	X	X												
15	MW-106D	WT									X	X	X	X	X	X												
16	MW-107S	WT									X	X	X	X	X	X												
17	MW-107I	WT									X	X	X	X	X	X												
18	MW-107D	WT									X	X	X	X	X	X												
19	MW-108S	WT									X	X	X	X	X	X												
20	MW-108D	WT									X	X	X	X	X	X												
21	DUP-1	WT									X	X	X	X	X	X												
22	DUP-2	WT									X	X	X	X	X	X												
23	EQUIPMENT BLANK 1	WT				8.29.21 1000		6	3	3	X	X	X	X	X	X											04	
24																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Metals: 6010 (Ba, B, Cd, Cr, Pb, Mo, Ca, Li)	J. Kelly / ATC	8.30.21		[Signature]	8/31/21	1515	100%	Y	N	Y
6020 (Co, As, Se, Sb)										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cover (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	[Signature]				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed:	8.29.21		



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BF 083121 1545

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 A B C D E (F)
- 4. Cooler Temperature: 1.1°C / 1.0°C
Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS: Client dropped off 8/31/21. CoC says 8/30/21. BF 83121

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFLU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10	
1																															
2																															
3																															
4																															
5																		2		3		1									
6																	↓		↓		↓										
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFLU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFLU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/H2SO4 pH <2	NaOH/ZNAc pH >9	NaOH pH >10	
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																	2		3		1												WT ✓
12																																	

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	AF	Air Filter
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	C	Air Cassettes
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	ZPLC	Ziploc Bag
JGUFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic		
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
				WP Wipe			

Attachment C: Statistical Analyses – Prediction Limits Documentation

November 2020

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	mg/L	MW-15I	09/18/2018	ND	0.0010		
Antimony, Total	mg/L	MW-15I	11/29/2018	ND	0.0010		
Antimony, Total	mg/L	MW-15I	02/04/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15I	03/25/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15I	05/14/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15I	01/29/2020	ND	0.0010		
Antimony, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Antimony, Total	mg/L	MW-15I	11/03/2020	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	09/18/2018	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	11/29/2018	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	02/04/2019	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	03/25/2019	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	05/14/2019	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	01/29/2020	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Arsenic, Total	mg/L	MW-15I	11/03/2020	ND	0.0010		
Barium, Total	mg/L	MW-15I	09/18/2018		0.0621		
Barium, Total	mg/L	MW-15I	11/29/2018		0.0660		
Barium, Total	mg/L	MW-15I	02/04/2019		0.0771		
Barium, Total	mg/L	MW-15I	03/25/2019		0.0788		
Barium, Total	mg/L	MW-15I	05/14/2019		0.0781		
Barium, Total	mg/L	MW-15I	07/24/2019		0.0662		
Barium, Total	mg/L	MW-15I	11/05/2019		0.0590		
Barium, Total	mg/L	MW-15I	01/29/2020		0.0566		
Barium, Total	mg/L	MW-15I	05/27/2020		0.0728		
Barium, Total	mg/L	MW-15I	11/03/2020		0.0619		
Beryllium, Total	mg/L	MW-15I	09/18/2018	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	11/29/2018	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	02/04/2019	ND	0.0002		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Beryllium, Total	mg/L	MW-15I	03/25/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	05/14/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	07/24/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	11/05/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	01/29/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	05/27/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15I	11/03/2020	ND	0.0002		
Cadmium, Total	mg/L	MW-15I	09/18/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	11/29/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	02/04/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	03/25/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	05/14/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	07/24/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	11/05/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15I	01/29/2020	ND	0.0010	0.0020	**
Cadmium, Total	mg/L	MW-15I	05/27/2020	ND	0.0020		
Chromium, Total	mg/L	MW-15I	09/18/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15I	11/29/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15I	02/04/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15I	03/25/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15I	05/14/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15I	07/24/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15I	11/05/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15I	01/29/2020	ND	0.0200	0.0100	**
Chromium, Total	mg/L	MW-15I	05/27/2020	ND	0.0100		
Chromium, Total	mg/L	MW-15I	11/03/2020	ND	0.0100		
Cobalt, Total	mg/L	MW-15I	09/18/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	11/29/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	02/04/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	03/25/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	05/14/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1
Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, Total	mg/L	MW-15I	01/29/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-15I	11/03/2020	ND	0.0010		
Fluoride	mg/L	MW-15I	09/18/2018		0.1100		
Fluoride	mg/L	MW-15I	11/29/2018		0.1300		
Fluoride	mg/L	MW-15I	02/04/2019		0.1200		
Fluoride	mg/L	MW-15I	03/25/2019		0.1300		
Fluoride	mg/L	MW-15I	05/14/2019		0.1100		
Fluoride	mg/L	MW-15I	07/24/2019	ND	0.1000		
Fluoride	mg/L	MW-15I	11/05/2019	ND	0.1000		
Fluoride	mg/L	MW-15I	01/29/2020		0.1200		
Fluoride	mg/L	MW-15I	05/27/2020		0.1200		
Fluoride	mg/L	MW-15I	11/03/2020	ND	0.1000		
Lead, Total	mg/L	MW-15I	09/18/2018	ND	0.0100		
Lead, Total	mg/L	MW-15I	11/29/2018	ND	0.0100		
Lead, Total	mg/L	MW-15I	02/04/2019	ND	0.0100		
Lead, Total	mg/L	MW-15I	03/25/2019	ND	0.0100		
Lead, Total	mg/L	MW-15I	05/14/2019	ND	0.0100		
Lead, Total	mg/L	MW-15I	07/24/2019	ND	0.0100		
Lead, Total	mg/L	MW-15I	11/05/2019	ND	0.0100		
Lead, Total	mg/L	MW-15I	01/29/2020	ND	0.0100		
Lead, Total	mg/L	MW-15I	05/27/2020	ND	0.0100		
Lead, Total	mg/L	MW-15I	11/03/2020	ND	0.0100		
Lithium, Total	mg/L	MW-15I	09/18/2018	ND	0.0200		
Lithium, Total	mg/L	MW-15I	11/29/2018	ND	0.0200		
Lithium, Total	mg/L	MW-15I	02/04/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15I	03/25/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15I	05/14/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15I	07/24/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15I	11/05/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15I	01/29/2020	ND	0.0200		
Lithium, Total	mg/L	MW-15I	05/27/2020	ND	0.0200		
Lithium, Total	mg/L	MW-15I	11/03/2020	ND	0.0200		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Mercury	mg/L	MW-15I	09/18/2018	ND	0.0020		
Mercury	mg/L	MW-15I	11/29/2018	ND	0.0020		
Mercury	mg/L	MW-15I	02/04/2019	ND	0.0020		
Mercury	mg/L	MW-15I	03/25/2019	ND	0.0020		
Mercury	mg/L	MW-15I	05/14/2019	ND	0.0020		
Mercury	mg/L	MW-15I	07/24/2019	ND	0.0020		
Mercury	mg/L	MW-15I	11/05/2019	ND	0.0020		
Mercury	mg/L	MW-15I	01/29/2020	ND	0.0002	0.0020	**
Mercury	mg/L	MW-15I	05/27/2020	ND	0.0020		
Molybdenum, Total	mg/L	MW-15I	09/18/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	11/29/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	02/04/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	03/25/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	05/14/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	07/24/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	11/05/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	01/29/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	05/27/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	11/03/2020	ND	0.0100		
Selenium, Total	mg/L	MW-15I	09/18/2018		0.0019		
Selenium, Total	mg/L	MW-15I	11/29/2018		0.0019		
Selenium, Total	mg/L	MW-15I	02/04/2019		0.0021		
Selenium, Total	mg/L	MW-15I	03/25/2019		0.0019		
Selenium, Total	mg/L	MW-15I	05/14/2019		0.0015		
Selenium, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15I	01/29/2020		0.0017		
Selenium, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15I	11/03/2020		0.0020		
Thallium, Total	mg/L	MW-15I	09/18/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15I	11/29/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15I	02/04/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	03/25/2019	ND	0.0010		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1
Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, Total	mg/L	MW-15I	05/14/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	01/29/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Total Radium	pCi/L	MW-15I	09/18/2018		0.7100		
Total Radium	pCi/L	MW-15I	11/29/2018		0.7930		
Total Radium	pCi/L	MW-15I	02/04/2019		0.8490		
Total Radium	pCi/L	MW-15I	03/25/2019		1.6500		
Total Radium	pCi/L	MW-15I	05/14/2019		1.6300		
Total Radium	pCi/L	MW-15I	07/24/2019		1.6200		
Total Radium	pCi/L	MW-15I	11/05/2019	ND	1.4600		
Total Radium	pCi/L	MW-15I	01/29/2020		0.5700		
Total Radium	pCi/L	MW-15I	05/27/2020		1.0500		
Total Radium	pCi/L	MW-15I	11/03/2020		0.6830		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-10S	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-11S	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-12S	11/05/2020		0.0028	***	0.0010
Antimony, Total	mg/L	MW-13S	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	11/06/2020		0.0034	*	0.0010
Antimony, Total	mg/L	MW-2S	11/04/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-3S	11/03/2020		0.0077	***	0.0010
Antimony, Total	mg/L	MW-4S	11/03/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-5S	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-6S	11/09/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-7S	11/17/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-8S	11/09/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9S	11/09/2020		0.0073	***	0.0010
Arsenic, Total	mg/L	MW-10S	11/05/2020		0.3490	***	0.0010
Arsenic, Total	mg/L	MW-11S	11/05/2020		0.0026	***	0.0010
Arsenic, Total	mg/L	MW-12S	11/05/2020		0.0469	***	0.0010
Arsenic, Total	mg/L	MW-13S	11/05/2020		0.4330	***	0.0010
Arsenic, Total	mg/L	MW-1S	11/06/2020		0.0212	***	0.0010
Arsenic, Total	mg/L	MW-2S	11/04/2020		0.0164	***	0.0010
Arsenic, Total	mg/L	MW-3S	11/03/2020		0.0012	***	0.0010
Arsenic, Total	mg/L	MW-4S	11/03/2020		0.0033	***	0.0010
Arsenic, Total	mg/L	MW-5S	11/05/2020	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-6S	11/09/2020		0.0392	***	0.0010
Arsenic, Total	mg/L	MW-7S	11/17/2020		0.4620	***	0.0010
Arsenic, Total	mg/L	MW-8S	11/09/2020	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	11/09/2020	ND	0.0010	**	0.0010
Barium, Total	mg/L	MW-10S	11/05/2020		0.0468		0.0923
Barium, Total	mg/L	MW-11S	11/05/2020		0.0762	**	0.0923
Barium, Total	mg/L	MW-12S	11/05/2020		0.0314		0.0923
Barium, Total	mg/L	MW-13S	11/05/2020		0.0338		0.0923
Barium, Total	mg/L	MW-1S	11/06/2020		0.1120	*	0.0923

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 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-2S	11/04/2020		0.1370	*	0.0923
Barium, Total	mg/L	MW-3S	11/03/2020		0.0456		0.0923
Barium, Total	mg/L	MW-4S	11/03/2020		0.1130	*	0.0923
Barium, Total	mg/L	MW-5S	11/05/2020		0.0250		0.0923
Barium, Total	mg/L	MW-6S	11/09/2020		0.1210	***	0.0923
Barium, Total	mg/L	MW-7S	11/17/2020		0.0360		0.0923
Barium, Total	mg/L	MW-8S	11/09/2020		0.0390		0.0923
Barium, Total	mg/L	MW-9S	11/09/2020		0.0520		0.0923
Beryllium, Total	mg/L	MW-10S	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11S	11/05/2020	ND	0.0002	**	0.0002
Beryllium, Total	mg/L	MW-12S	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-13S	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-1S	11/06/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-2S	11/04/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-3S	11/03/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-4S	11/03/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-5S	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-6S	11/09/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-7S	11/17/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-8S	11/09/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9S	11/09/2020	ND	0.0002		0.0002
Cadmium, Total	mg/L	MW-10S	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-11S	05/27/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-12S	05/29/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-13S	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1S	05/26/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2S	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-3S	05/18/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-4S	06/05/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-5S	05/18/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-6S	05/28/2020	ND	0.0020		0.0020

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 **** - Current value passed - awaiting one more verification.
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 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Cadmium, Total	mg/L	MW-7S	05/27/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-8S	05/26/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-9S	05/29/2020	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-10S	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	11/05/2020	ND	0.0200	**	0.0100
Chromium, Total	mg/L	MW-12S	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-13S	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1S	11/06/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2S	11/04/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-3S	11/03/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-5S	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-6S	11/09/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-7S	11/17/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-8S	11/09/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9S	11/09/2020	ND	0.0100		0.0100
Cobalt, Total	mg/L	MW-10S	11/05/2020	ND	0.0010	**	0.0010
Cobalt, Total	mg/L	MW-11S	11/05/2020	ND	0.0010	**	0.0010
Cobalt, Total	mg/L	MW-12S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-13S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-1S	11/06/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	11/04/2020		0.0013	*	0.0010
Cobalt, Total	mg/L	MW-3S	11/03/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	11/03/2020		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-5S	11/05/2020	ND	0.0010	**	0.0010
Cobalt, Total	mg/L	MW-6S	11/09/2020		0.0016	***	0.0010
Cobalt, Total	mg/L	MW-7S	11/17/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-8S	11/09/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9S	11/09/2020	ND	0.0010		0.0010
Fluoride	mg/L	MW-10S	11/05/2020		2.4000	***	0.2567
Fluoride	mg/L	MW-11S	11/05/2020		1.6000	***	0.2567

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-12S	11/05/2020		1.8000	***	0.2567
Fluoride	mg/L	MW-13S	11/05/2020		0.9400	***	0.2567
Fluoride	mg/L	MW-1S	11/06/2020		0.3500	***	0.2567
Fluoride	mg/L	MW-2S	11/04/2020		0.2800	***	0.2567
Fluoride	mg/L	MW-3S	11/03/2020		0.2100	**	0.2567
Fluoride	mg/L	MW-4S	11/03/2020	ND	0.1000		0.2567
Fluoride	mg/L	MW-5S	11/05/2020		2.3000	***	0.2567
Fluoride	mg/L	MW-6S	11/09/2020		1.4000	***	0.2567
Fluoride	mg/L	MW-7S	11/17/2020		0.5400	***	0.2567
Fluoride	mg/L	MW-8S	11/09/2020		0.1500		0.2567
Fluoride	mg/L	MW-9S	11/09/2020		0.2100		0.2567
Lead, Total	mg/L	MW-10S	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	11/05/2020	ND	0.0200	**	0.0100
Lead, Total	mg/L	MW-12S	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-13S	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-1S	11/06/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2S	11/04/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3S	11/03/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-5S	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-6S	11/09/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-7S	11/17/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-8S	11/09/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9S	11/09/2020	ND	0.0100		0.0100
Lithium, Total	mg/L	MW-10S	11/05/2020		0.0499	***	0.0200
Lithium, Total	mg/L	MW-11S	11/05/2020	ND	0.0200	**	0.0200
Lithium, Total	mg/L	MW-12S	11/05/2020		0.0846	***	0.0200
Lithium, Total	mg/L	MW-13S	11/05/2020		0.0693	***	0.0200
Lithium, Total	mg/L	MW-1S	11/06/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2S	11/04/2020		0.0230	*	0.0200
Lithium, Total	mg/L	MW-3S	11/03/2020	ND	0.0200		0.0200

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-4S	11/03/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-5S	11/05/2020		0.0417	***	0.0200
Lithium, Total	mg/L	MW-6S	11/09/2020		0.0619	***	0.0200
Lithium, Total	mg/L	MW-7S	11/17/2020		0.0868	***	0.0200
Lithium, Total	mg/L	MW-8S	11/09/2020		0.1880	***	0.0200
Lithium, Total	mg/L	MW-9S	11/09/2020		0.0727	***	0.0200
Mercury	mg/L	MW-10S	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-11S	05/27/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-12S	05/29/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-13S	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-1S	05/26/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-2S	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-3S	05/18/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-4S	06/05/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-5S	05/18/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-6S	05/28/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-7S	05/27/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-8S	05/26/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-9S	05/29/2020	ND	0.0020		0.0020
Molybdenum, Total	mg/L	MW-10S	11/05/2020		0.0774	***	0.0100
Molybdenum, Total	mg/L	MW-11S	11/05/2020		0.0806	***	0.0100
Molybdenum, Total	mg/L	MW-12S	11/05/2020		0.1960	***	0.0100
Molybdenum, Total	mg/L	MW-13S	11/05/2020		0.7220	***	0.0100
Molybdenum, Total	mg/L	MW-1S	11/06/2020		0.0254	***	0.0100
Molybdenum, Total	mg/L	MW-2S	11/04/2020		0.0360	***	0.0100
Molybdenum, Total	mg/L	MW-3S	11/03/2020		0.0406	***	0.0100
Molybdenum, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-5S	11/05/2020		0.1820	***	0.0100
Molybdenum, Total	mg/L	MW-6S	11/09/2020		0.2110	***	0.0100
Molybdenum, Total	mg/L	MW-7S	11/17/2020		0.6810	***	0.0100
Molybdenum, Total	mg/L	MW-8S	11/09/2020		0.5320	***	0.0100

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-9S	11/09/2020		0.2010	***	0.0100
Selenium, Total	mg/L	MW-10S	11/05/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-11S	11/05/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-12S	11/05/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-13S	11/05/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-1S	11/06/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-2S	11/04/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-3S	11/03/2020		0.0015	**	0.0040
Selenium, Total	mg/L	MW-4S	11/03/2020		0.0414	***	0.0040
Selenium, Total	mg/L	MW-5S	11/05/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-6S	11/09/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-7S	11/17/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-8S	11/09/2020	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-9S	11/09/2020		0.0159	***	0.0040
Thallium, Total	mg/L	MW-10S	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-11S	05/27/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-12S	05/29/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-13S	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-1S	05/26/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-2S	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-3S	05/18/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-4S	06/05/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-5S	05/18/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-6S	05/28/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-7S	05/27/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-8S	05/26/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9S	05/29/2020	ND	0.0010		0.0010
Total Radium	pCi/L	MW-10S	11/05/2020		4.0700	*	2.5586
Total Radium	pCi/L	MW-11S	11/05/2020		1.4800		2.5586
Total Radium	pCi/L	MW-12S	11/05/2020		1.7500		2.5586
Total Radium	pCi/L	MW-13S	11/05/2020		1.8600		2.5586

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Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Total Radium	pCi/L	MW-1S	11/06/2020		3.0800	*	2.5586
Total Radium	pCi/L	MW-2S	11/04/2020		4.4600	*	2.5586
Total Radium	pCi/L	MW-3S	11/03/2020	ND	1.6800		2.5586
Total Radium	pCi/L	MW-4S	11/03/2020		1.3000		2.5586
Total Radium	pCi/L	MW-5S	11/05/2020		1.1700		2.5586
Total Radium	pCi/L	MW-6S	11/09/2020		0.7760		2.5586
Total Radium	pCi/L	MW-7S	11/17/2020		1.3700		2.5586
Total Radium	pCi/L	MW-8S	11/09/2020	ND	1.8100		2.5586
Total Radium	pCi/L	MW-9S	11/09/2020	ND	1.8600		2.5586

- * - Current value failed - awaiting verification.
- ** - Current value passed - previous exceedance not verified.
- *** - Current value failed - exceedance verified.
- **** - Current value passed - awaiting one more verification.
- ***** - Insufficient background data to compute prediction limit.
- ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	10	0.000	37	177	0.209
Arsenic, Total	0	10	0.000	109	177	0.616
Barium, Total	10	10	1.000	177	177	1.000
Beryllium, Total	0	10	0.000	1	164	0.006
Cadmium, Total	0	9	0.000	3	151	0.020
Chromium, Total	0	10	0.000	8	177	0.045
Cobalt, Total	0	10	0.000	11	164	0.067
Fluoride	7	10	0.700	176	190	0.926
Lead, Total	0	10	0.000	2	164	0.012
Lithium, Total	0	10	0.000	143	177	0.808
Mercury	0	9	0.000	0	151	0.000
Molybdenum, Total	0	10	0.000	164	177	0.927
Selenium, Total	7	10	0.700	31	177	0.175
Thallium, Total	0	9	0.000	0	151	0.000
Total Radium	9	10	0.900	145	175	0.829

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Arsenic, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Barium, Total	10	10	1.000	0.687	0.535					2.326	normal	normal
Beryllium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Cadmium, Total	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Chromium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Cobalt, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Fluoride	7	10	0.700	1.153	1.204					2.326	normal	normal
Lead, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Lithium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Mercury	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Molybdenum, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Selenium, Total	7	10	0.700	1.872	2.282					2.326	normal	normal
Thallium, Total	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Total Radium	9	10	0.900	1.604	1.153					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	mg/L	0	10					0.0010	nonpar	***	0.86
Arsenic, Total	mg/L	0	10					0.0010	nonpar	***	0.86
Barium, Total	mg/L	10	10	0.0679	0.0083	0.0100	2.9590	0.0923	normal		
Beryllium, Total	mg/L	0	10					0.0002	nonpar	***	0.86
Cadmium, Total	mg/L	0	9					0.0020	nonpar	***	0.84
Chromium, Total	mg/L	0	10					0.0100	nonpar	***	0.86
Cobalt, Total	mg/L	0	10					0.0010	nonpar	***	0.86
Fluoride	mg/L	7	10	0.0840	0.0584	0.0100	2.9590	0.2567	normal		
Lead, Total	mg/L	0	10					0.0100	nonpar	***	0.86
Lithium, Total	mg/L	0	10					0.0200	nonpar	***	0.86
Mercury	mg/L	0	9					0.0020	nonpar	***	0.84
Molybdenum, Total	mg/L	0	10					0.0100	nonpar	***	0.86
Selenium, Total	mg/L	7	10	0.0013	0.0009	0.0100	2.9590	0.0040	normal		
Thallium, Total	mg/L	0	9					0.0010	nonpar	***	0.84
Total Radium	pCi/L	9	10	0.9555	0.5418	0.0100	2.9590	2.5586	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-12S	04/06/2016		0.0060	*	0.0010
Antimony, Total	mg/L	MW-12S	05/25/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	08/09/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	09/27/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	11/29/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	01/25/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	05/23/2017		0.0077	*	0.0010
Antimony, Total	mg/L	MW-12S	08/08/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	05/30/2018	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	09/17/2018		0.0037	*	0.0010
Antimony, Total	mg/L	MW-12S	05/16/2019		0.0044	*	0.0010
Antimony, Total	mg/L	MW-12S	05/29/2020		0.0021	*	0.0010
Antimony, Total	mg/L	MW-12S	11/05/2020		0.0028	*	0.0010
Antimony, Total	mg/L	MW-1S	04/07/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/26/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	08/09/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	09/27/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	11/29/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	01/26/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/23/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	08/09/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/29/2018	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	09/17/2018		0.0013	*	0.0010
Antimony, Total	mg/L	MW-1S	05/15/2019	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	11/07/2019		0.0063	*	0.0010
Antimony, Total	mg/L	MW-1S	05/26/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	11/06/2020		0.0034	*	0.0010
Antimony, Total	mg/L	MW-3S	04/05/2016		0.0095	*	0.0010
Antimony, Total	mg/L	MW-3S	05/25/2016		0.0085	*	0.0010
Antimony, Total	mg/L	MW-3S	08/08/2016		0.0089	*	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Antimony, Total	mg/L	MW-3S	09/26/2016	0.0100 *	0.0010
Antimony, Total	mg/L	MW-3S	11/28/2016	0.0085 *	0.0010
Antimony, Total	mg/L	MW-3S	01/24/2017	0.0064 *	0.0010
Antimony, Total	mg/L	MW-3S	05/22/2017	0.0096 *	0.0010
Antimony, Total	mg/L	MW-3S	08/07/2017	0.0073 *	0.0010
Antimony, Total	mg/L	MW-3S	05/29/2018	0.0089 *	0.0010
Antimony, Total	mg/L	MW-3S	09/17/2018	0.0091 *	0.0010
Antimony, Total	mg/L	MW-3S	05/14/2019	0.0073 *	0.0010
Antimony, Total	mg/L	MW-3S	11/05/2019	0.0087 *	0.0010
Antimony, Total	mg/L	MW-3S	05/18/2020	0.0071 *	0.0010
Antimony, Total	mg/L	MW-3S	11/03/2020	0.0077 *	0.0010
Antimony, Total	mg/L	MW-9S	04/06/2016	0.0149 *	0.0010
Antimony, Total	mg/L	MW-9S	05/25/2016	0.0144 *	0.0010
Antimony, Total	mg/L	MW-9S	08/08/2016	0.0130 *	0.0010
Antimony, Total	mg/L	MW-9S	09/27/2016	0.0141 *	0.0010
Antimony, Total	mg/L	MW-9S	11/28/2016	0.0119 *	0.0010
Antimony, Total	mg/L	MW-9S	01/25/2017	0.0125 *	0.0010
Antimony, Total	mg/L	MW-9S	05/23/2017	0.0126 *	0.0010
Antimony, Total	mg/L	MW-9S	08/08/2017	0.0080 *	0.0010
Antimony, Total	mg/L	MW-9S	05/30/2018	0.0115 *	0.0010
Antimony, Total	mg/L	MW-9S	09/17/2018	0.0115 *	0.0010
Antimony, Total	mg/L	MW-9S	05/16/2019	0.0092 *	0.0010
Antimony, Total	mg/L	MW-9S	05/29/2020	0.0088 *	0.0010
Antimony, Total	mg/L	MW-9S	11/09/2020	0.0073 *	0.0010
Arsenic, Total	mg/L	MW-10S	04/06/2016	0.4550 *	0.0010
Arsenic, Total	mg/L	MW-10S	05/25/2016	0.4400 *	0.0010
Arsenic, Total	mg/L	MW-10S	08/09/2016	0.4840 *	0.0010
Arsenic, Total	mg/L	MW-10S	09/27/2016	0.4920 *	0.0010
Arsenic, Total	mg/L	MW-10S	11/29/2016	0.5450 *	0.0010
Arsenic, Total	mg/L	MW-10S	01/25/2017	0.5070 *	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-10S	05/23/2017		0.4400	*	0.0010
Arsenic, Total	mg/L	MW-10S	08/08/2017		0.4940	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/30/2018		0.4440	*	0.0010
Arsenic, Total	mg/L	MW-10S	09/18/2018		0.3430	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/16/2019		0.3490	*	0.0010
Arsenic, Total	mg/L	MW-10S	11/05/2019		0.3850	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/19/2020		0.3580	*	0.0010
Arsenic, Total	mg/L	MW-10S	11/05/2020		0.3490	*	0.0010
Arsenic, Total	mg/L	MW-11S	04/07/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	05/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	08/10/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	09/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	11/30/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	01/26/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	05/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	08/09/2017		0.0121	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	09/14/2018		0.0029	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/15/2019		0.0031	*	0.0010
Arsenic, Total	mg/L	MW-11S	11/07/2019		0.0025	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/27/2020		0.0138	*	0.0010
Arsenic, Total	mg/L	MW-11S	11/05/2020		0.0026	*	0.0010
Arsenic, Total	mg/L	MW-12S	04/06/2016		0.0156	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/25/2016		0.0147	*	0.0010
Arsenic, Total	mg/L	MW-12S	08/09/2016		0.0155	*	0.0010
Arsenic, Total	mg/L	MW-12S	09/27/2016		0.0156	*	0.0010
Arsenic, Total	mg/L	MW-12S	11/29/2016		0.0144	*	0.0010
Arsenic, Total	mg/L	MW-12S	01/25/2017		0.0181	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/23/2017		0.0194	*	0.0010
Arsenic, Total	mg/L	MW-12S	08/08/2017		0.0162	*	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-12S	05/30/2018		0.0435 *		0.0010
Arsenic, Total	mg/L	MW-12S	09/17/2018		0.0382 *		0.0010
Arsenic, Total	mg/L	MW-12S	05/16/2019		0.0300 *		0.0010
Arsenic, Total	mg/L	MW-12S	05/29/2020		0.0647 *		0.0010
Arsenic, Total	mg/L	MW-12S	11/05/2020		0.0469 *		0.0010
Arsenic, Total	mg/L	MW-13S	04/06/2016		0.3650 *		0.0010
Arsenic, Total	mg/L	MW-13S	05/25/2016		0.3690 *		0.0010
Arsenic, Total	mg/L	MW-13S	08/09/2016		0.3760 *		0.0010
Arsenic, Total	mg/L	MW-13S	09/27/2016		0.4160 *		0.0010
Arsenic, Total	mg/L	MW-13S	11/29/2016		0.4260 *		0.0010
Arsenic, Total	mg/L	MW-13S	01/25/2017		0.3970 *		0.0010
Arsenic, Total	mg/L	MW-13S	05/23/2017		0.3860 *		0.0010
Arsenic, Total	mg/L	MW-13S	08/08/2017		0.3710 *		0.0010
Arsenic, Total	mg/L	MW-13S	05/30/2018		0.3750 *		0.0010
Arsenic, Total	mg/L	MW-13S	09/18/2018		0.3200 *		0.0010
Arsenic, Total	mg/L	MW-13S	05/15/2019		0.3240 *		0.0010
Arsenic, Total	mg/L	MW-13S	11/07/2019		0.3520 *		0.0010
Arsenic, Total	mg/L	MW-13S	05/19/2020		0.3110 *		0.0010
Arsenic, Total	mg/L	MW-13S	11/05/2020		0.4330 *		0.0010
Arsenic, Total	mg/L	MW-1S	04/07/2016		0.0494 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/26/2016		0.0228 *		0.0010
Arsenic, Total	mg/L	MW-1S	08/09/2016		0.0341 *		0.0010
Arsenic, Total	mg/L	MW-1S	09/27/2016		0.0106 *		0.0010
Arsenic, Total	mg/L	MW-1S	11/29/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-1S	01/26/2017		0.0358 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/23/2017		0.0233 *		0.0010
Arsenic, Total	mg/L	MW-1S	08/09/2017		0.0145 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/29/2018		0.1680 *		0.0010
Arsenic, Total	mg/L	MW-1S	09/17/2018		0.0336 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/15/2019		0.0135 *		0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-1S	11/07/2019		0.0506	*	0.0010
Arsenic, Total	mg/L	MW-1S	05/26/2020		0.0124	*	0.0010
Arsenic, Total	mg/L	MW-1S	11/06/2020		0.0212	*	0.0010
Arsenic, Total	mg/L	MW-2S	04/05/2016		0.0265	*	0.0010
Arsenic, Total	mg/L	MW-2S	05/24/2016		0.0220	*	0.0010
Arsenic, Total	mg/L	MW-2S	08/08/2016		0.0273	*	0.0010
Arsenic, Total	mg/L	MW-2S	09/26/2016		0.0224	*	0.0010
Arsenic, Total	mg/L	MW-2S	11/28/2016		0.0217	*	0.0010
Arsenic, Total	mg/L	MW-2S	01/24/2017		0.0173	*	0.0010
Arsenic, Total	mg/L	MW-2S	05/22/2017		0.0270	*	0.0010
Arsenic, Total	mg/L	MW-2S	08/07/2017		0.0198	*	0.0010
Arsenic, Total	mg/L	MW-2S	05/29/2018		0.0184	*	0.0010
Arsenic, Total	mg/L	MW-2S	09/17/2018		0.0146	*	0.0010
Arsenic, Total	mg/L	MW-2S	05/14/2019		0.0125	*	0.0010
Arsenic, Total	mg/L	MW-2S	11/05/2019		0.0146	*	0.0010
Arsenic, Total	mg/L	MW-2S	05/19/2020		0.0090	*	0.0010
Arsenic, Total	mg/L	MW-2S	11/04/2020		0.0164	*	0.0010
Arsenic, Total	mg/L	MW-3S	04/05/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	09/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	11/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	01/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/22/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	08/07/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	09/17/2018		0.0020	*	0.0010
Arsenic, Total	mg/L	MW-3S	05/14/2019		0.0023	*	0.0010
Arsenic, Total	mg/L	MW-3S	11/05/2019		0.0018	*	0.0010
Arsenic, Total	mg/L	MW-3S	05/18/2020		0.0015	*	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-3S	11/03/2020		0.0012	*	0.0010
Arsenic, Total	mg/L	MW-4S	04/05/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	09/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	11/29/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	01/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/22/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	08/07/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	09/14/2018	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-4S	05/14/2019	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-4S	06/05/2020		0.0012	*	0.0010
Arsenic, Total	mg/L	MW-4S	11/03/2020		0.0033	*	0.0010
Arsenic, Total	mg/L	MW-6S	04/06/2016		0.0283	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/25/2016		0.0230	*	0.0010
Arsenic, Total	mg/L	MW-6S	08/09/2016		0.0343	*	0.0010
Arsenic, Total	mg/L	MW-6S	09/27/2016		0.0300	*	0.0010
Arsenic, Total	mg/L	MW-6S	11/29/2016		0.0351	*	0.0010
Arsenic, Total	mg/L	MW-6S	01/25/2017		0.0116	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/23/2017		0.0124	*	0.0010
Arsenic, Total	mg/L	MW-6S	08/08/2017		0.0112	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/30/2018		0.0136	*	0.0010
Arsenic, Total	mg/L	MW-6S	09/18/2018		0.0155	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/14/2019		0.0114	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/28/2020		0.0238	*	0.0010
Arsenic, Total	mg/L	MW-6S	11/09/2020		0.0392	*	0.0010
Arsenic, Total	mg/L	MW-7S	04/06/2016		0.3200	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/25/2016		0.3530	*	0.0010
Arsenic, Total	mg/L	MW-7S	08/09/2016		0.3650	*	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-7S	09/27/2016		0.3520	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/29/2016		0.3720	*	0.0010
Arsenic, Total	mg/L	MW-7S	01/25/2017		0.3520	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/23/2017		0.3730	*	0.0010
Arsenic, Total	mg/L	MW-7S	08/08/2017		0.3590	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/30/2018		0.3830	*	0.0010
Arsenic, Total	mg/L	MW-7S	09/18/2018		0.3170	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/15/2019		0.3450	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/06/2019		0.4390	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/27/2020		0.3670	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/17/2020		0.4620	*	0.0010
Arsenic, Total	mg/L	MW-9S	04/06/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	09/27/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	11/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	01/25/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/23/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	08/08/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/30/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	09/17/2018	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	05/16/2019	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	05/29/2020		0.0015	*	0.0010
Arsenic, Total	mg/L	MW-9S	11/09/2020	ND	0.0010		0.0010
Barium, Total	mg/L	MW-11S	04/07/2016		0.1110	*	0.0923
Barium, Total	mg/L	MW-11S	05/26/2016		0.1010	*	0.0923
Barium, Total	mg/L	MW-11S	08/10/2016		0.0895		0.0923
Barium, Total	mg/L	MW-11S	09/28/2016		0.0812		0.0923
Barium, Total	mg/L	MW-11S	11/30/2016		0.1610	*	0.0923
Barium, Total	mg/L	MW-11S	01/26/2017		0.0861		0.0923

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-11S	05/24/2017		0.0797		0.0923
Barium, Total	mg/L	MW-11S	08/09/2017		0.3000	*	0.0923
Barium, Total	mg/L	MW-11S	05/29/2018		0.1680	*	0.0923
Barium, Total	mg/L	MW-11S	09/14/2018		0.0906		0.0923
Barium, Total	mg/L	MW-11S	05/15/2019		0.0811		0.0923
Barium, Total	mg/L	MW-11S	11/07/2019		0.0767		0.0923
Barium, Total	mg/L	MW-11S	05/27/2020		0.3040	*	0.0923
Barium, Total	mg/L	MW-11S	11/05/2020		0.0762		0.0923
Barium, Total	mg/L	MW-1S	04/07/2016		0.1000	*	0.0923
Barium, Total	mg/L	MW-1S	05/26/2016		0.0764		0.0923
Barium, Total	mg/L	MW-1S	08/09/2016		0.0973	*	0.0923
Barium, Total	mg/L	MW-1S	09/27/2016		0.0678		0.0923
Barium, Total	mg/L	MW-1S	11/29/2016		0.0433		0.0923
Barium, Total	mg/L	MW-1S	01/26/2017		0.1270	*	0.0923
Barium, Total	mg/L	MW-1S	05/23/2017		0.0725		0.0923
Barium, Total	mg/L	MW-1S	08/09/2017		0.0622		0.0923
Barium, Total	mg/L	MW-1S	05/29/2018		0.2790	*	0.0923
Barium, Total	mg/L	MW-1S	09/17/2018		0.0958	*	0.0923
Barium, Total	mg/L	MW-1S	05/15/2019		0.0635		0.0923
Barium, Total	mg/L	MW-1S	11/07/2019		0.1400	*	0.0923
Barium, Total	mg/L	MW-1S	05/26/2020		0.0698		0.0923
Barium, Total	mg/L	MW-1S	11/06/2020		0.1120	*	0.0923
Barium, Total	mg/L	MW-2S	04/05/2016		0.2050	*	0.0923
Barium, Total	mg/L	MW-2S	05/24/2016		0.1580	*	0.0923
Barium, Total	mg/L	MW-2S	08/08/2016		0.1680	*	0.0923
Barium, Total	mg/L	MW-2S	09/26/2016		0.1800	*	0.0923
Barium, Total	mg/L	MW-2S	11/28/2016		0.1850	*	0.0923
Barium, Total	mg/L	MW-2S	01/24/2017		0.0974	*	0.0923
Barium, Total	mg/L	MW-2S	05/22/2017		0.1380	*	0.0923
Barium, Total	mg/L	MW-2S	08/07/2017		0.1270	*	0.0923

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-2S	05/29/2018		0.0903		0.0923
Barium, Total	mg/L	MW-2S	09/17/2018		0.0860		0.0923
Barium, Total	mg/L	MW-2S	05/14/2019		0.1230 *		0.0923
Barium, Total	mg/L	MW-2S	11/05/2019		0.1950 *		0.0923
Barium, Total	mg/L	MW-2S	05/19/2020		0.0861		0.0923
Barium, Total	mg/L	MW-2S	11/04/2020		0.1370 *		0.0923
Barium, Total	mg/L	MW-4S	04/05/2016		0.1170 *		0.0923
Barium, Total	mg/L	MW-4S	05/25/2016		0.1360 *		0.0923
Barium, Total	mg/L	MW-4S	08/08/2016		0.1400 *		0.0923
Barium, Total	mg/L	MW-4S	09/26/2016		0.1230 *		0.0923
Barium, Total	mg/L	MW-4S	11/29/2016		0.1280 *		0.0923
Barium, Total	mg/L	MW-4S	01/24/2017		0.1190 *		0.0923
Barium, Total	mg/L	MW-4S	05/22/2017		0.0703		0.0923
Barium, Total	mg/L	MW-4S	08/07/2017		0.0938 *		0.0923
Barium, Total	mg/L	MW-4S	05/29/2018		0.0494		0.0923
Barium, Total	mg/L	MW-4S	09/14/2018		0.0930 *		0.0923
Barium, Total	mg/L	MW-4S	05/14/2019		0.0600		0.0923
Barium, Total	mg/L	MW-4S	06/05/2020		0.0860		0.0923
Barium, Total	mg/L	MW-4S	11/03/2020		0.1130 *		0.0923
Barium, Total	mg/L	MW-6S	04/06/2016		0.1500 *		0.0923
Barium, Total	mg/L	MW-6S	05/25/2016		0.1120 *		0.0923
Barium, Total	mg/L	MW-6S	08/09/2016		0.1660 *		0.0923
Barium, Total	mg/L	MW-6S	09/27/2016		0.1600 *		0.0923
Barium, Total	mg/L	MW-6S	11/29/2016		0.1890 *		0.0923
Barium, Total	mg/L	MW-6S	01/25/2017		0.1050 *		0.0923
Barium, Total	mg/L	MW-6S	05/23/2017		0.0805		0.0923
Barium, Total	mg/L	MW-6S	08/08/2017		0.0806		0.0923
Barium, Total	mg/L	MW-6S	05/30/2018		0.1160 *		0.0923
Barium, Total	mg/L	MW-6S	09/18/2018		0.1320 *		0.0923
Barium, Total	mg/L	MW-6S	05/14/2019		0.1030 *		0.0923

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-6S	05/28/2020		0.1410	*	0.0923
Barium, Total	mg/L	MW-6S	11/09/2020		0.1210	*	0.0923
Beryllium, Total	mg/L	MW-11S	04/07/2016	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	05/26/2016	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	08/10/2016	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	09/28/2016	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	11/30/2016	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	01/26/2017	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	05/24/2017	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	08/09/2017	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	05/29/2018	ND	0.0040		0.0002
Beryllium, Total	mg/L	MW-11S	05/15/2019	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11S	11/07/2019	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11S	05/27/2020		0.0007	*	0.0002
Beryllium, Total	mg/L	MW-11S	11/05/2020	ND	0.0002		0.0002
Chromium, Total	mg/L	MW-11S	04/07/2016	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	05/26/2016	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	08/10/2016	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	09/28/2016	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	11/30/2016		0.0143	*	0.0100
Chromium, Total	mg/L	MW-11S	01/26/2017	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	05/24/2017	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	08/09/2017		0.0267	*	0.0100
Chromium, Total	mg/L	MW-11S	05/29/2018		0.0124	*	0.0100
Chromium, Total	mg/L	MW-11S	09/14/2018	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	05/15/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	11/07/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	05/27/2020		0.0342	*	0.0100
Chromium, Total	mg/L	MW-11S	11/05/2020	ND	0.0200		0.0100
Cobalt, Total	mg/L	MW-10S	04/06/2016	ND	0.0100		0.0010

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, Total	mg/L	MW-10S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	08/08/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-10S	05/16/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-10S	11/05/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-10S	05/19/2020		0.0012	*	0.0010
Cobalt, Total	mg/L	MW-10S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11S	04/07/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-11S	05/26/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	08/10/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	09/28/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	11/30/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	01/26/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	05/24/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	08/09/2017		0.0105	*	0.0010
Cobalt, Total	mg/L	MW-11S	05/29/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-11S	05/15/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11S	11/07/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11S	05/27/2020		0.0107	*	0.0010
Cobalt, Total	mg/L	MW-11S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	04/05/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-2S	05/24/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	08/08/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	09/26/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	11/28/2016	ND	0.0050		0.0010

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, Total	mg/L	MW-2S	01/24/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/22/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	08/07/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/29/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	11/05/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	05/19/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	11/04/2020		0.0013	*	0.0010
Cobalt, Total	mg/L	MW-4S	04/05/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-4S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	08/08/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	09/26/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	01/24/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/22/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	08/07/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/29/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	06/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	11/03/2020		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-5S	04/06/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-5S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	08/08/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	05/14/2019		0.0012	*	0.0010

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, Total	mg/L	MW-5S	05/18/2020		0.0010	**	0.0010
Cobalt, Total	mg/L	MW-5S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-6S	04/06/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-6S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	08/08/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-6S	05/28/2020		0.0024	*	0.0010
Cobalt, Total	mg/L	MW-6S	11/09/2020		0.0016	*	0.0010
Fluoride	mg/L	MW-10S	04/06/2016		3.5000	*	0.2567
Fluoride	mg/L	MW-10S	05/25/2016		3.0000	*	0.2567
Fluoride	mg/L	MW-10S	08/09/2016		2.2000	*	0.2567
Fluoride	mg/L	MW-10S	09/27/2016		2.6000	*	0.2567
Fluoride	mg/L	MW-10S	11/29/2016		3.1000	*	0.2567
Fluoride	mg/L	MW-10S	01/25/2017		2.7000	*	0.2567
Fluoride	mg/L	MW-10S	05/23/2017		2.4000	*	0.2567
Fluoride	mg/L	MW-10S	08/08/2017		2.1000	*	0.2567
Fluoride	mg/L	MW-10S	09/20/2017		1.8000	*	0.2567
Fluoride	mg/L	MW-10S	05/30/2018		2.2000	*	0.2567
Fluoride	mg/L	MW-10S	09/18/2018		2.7000	*	0.2567
Fluoride	mg/L	MW-10S	05/16/2019		2.5000	*	0.2567
Fluoride	mg/L	MW-10S	11/05/2019		2.1000	*	0.2567
Fluoride	mg/L	MW-10S	05/19/2020		2.0000	*	0.2567
Fluoride	mg/L	MW-10S	11/05/2020		2.4000	*	0.2567
Fluoride	mg/L	MW-11S	04/07/2016		1.2000	*	0.2567

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-11S	05/26/2016	1.3000 *	0.2567
Fluoride	mg/L	MW-11S	08/10/2016	1.4000 *	0.2567
Fluoride	mg/L	MW-11S	09/28/2016	1.5000 *	0.2567
Fluoride	mg/L	MW-11S	11/30/2016	1.5000 *	0.2567
Fluoride	mg/L	MW-11S	01/26/2017	1.6000 *	0.2567
Fluoride	mg/L	MW-11S	05/24/2017	1.5000 *	0.2567
Fluoride	mg/L	MW-11S	08/09/2017	1.5000 *	0.2567
Fluoride	mg/L	MW-11S	09/20/2017	1.6000 *	0.2567
Fluoride	mg/L	MW-11S	05/29/2018	1.5000 *	0.2567
Fluoride	mg/L	MW-11S	09/14/2018	1.4000 *	0.2567
Fluoride	mg/L	MW-11S	05/15/2019	1.4000 *	0.2567
Fluoride	mg/L	MW-11S	11/07/2019	1.4000 *	0.2567
Fluoride	mg/L	MW-11S	05/27/2020	1.6000 *	0.2567
Fluoride	mg/L	MW-11S	11/05/2020	1.6000 *	0.2567
Fluoride	mg/L	MW-12S	04/06/2016	0.3500 *	0.2567
Fluoride	mg/L	MW-12S	05/25/2016	0.3700 *	0.2567
Fluoride	mg/L	MW-12S	08/09/2016	0.3800 *	0.2567
Fluoride	mg/L	MW-12S	09/27/2016	0.3800 *	0.2567
Fluoride	mg/L	MW-12S	11/29/2016	0.4200 *	0.2567
Fluoride	mg/L	MW-12S	01/25/2017	0.5200 *	0.2567
Fluoride	mg/L	MW-12S	05/23/2017	0.5100 *	0.2567
Fluoride	mg/L	MW-12S	08/08/2017	0.5700 *	0.2567
Fluoride	mg/L	MW-12S	09/20/2017	0.7500 *	0.2567
Fluoride	mg/L	MW-12S	05/30/2018	1.8000 *	0.2567
Fluoride	mg/L	MW-12S	09/17/2018	1.7000 *	0.2567
Fluoride	mg/L	MW-12S	05/16/2019	1.5000 *	0.2567
Fluoride	mg/L	MW-12S	05/29/2020	1.8000 *	0.2567
Fluoride	mg/L	MW-12S	11/05/2020	1.8000 *	0.2567
Fluoride	mg/L	MW-13S	04/06/2016	0.5200 *	0.2567
Fluoride	mg/L	MW-13S	05/25/2016	0.5200 *	0.2567

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-13S	08/09/2016	0.4900 *	0.2567
Fluoride	mg/L	MW-13S	09/27/2016	0.5200 *	0.2567
Fluoride	mg/L	MW-13S	11/29/2016	0.5500 *	0.2567
Fluoride	mg/L	MW-13S	01/25/2017	0.5700 *	0.2567
Fluoride	mg/L	MW-13S	05/23/2017	0.6300 *	0.2567
Fluoride	mg/L	MW-13S	08/08/2017	0.7200 *	0.2567
Fluoride	mg/L	MW-13S	09/20/2017	0.6500 *	0.2567
Fluoride	mg/L	MW-13S	05/30/2018	0.8600 *	0.2567
Fluoride	mg/L	MW-13S	09/18/2018	0.8800 *	0.2567
Fluoride	mg/L	MW-13S	05/15/2019	0.8300 *	0.2567
Fluoride	mg/L	MW-13S	11/07/2019	0.7800 *	0.2567
Fluoride	mg/L	MW-13S	05/19/2020	0.9300 *	0.2567
Fluoride	mg/L	MW-13S	11/05/2020	0.9400 *	0.2567
Fluoride	mg/L	MW-1S	04/07/2016	0.5200 *	0.2567
Fluoride	mg/L	MW-1S	05/26/2016	0.5700 *	0.2567
Fluoride	mg/L	MW-1S	08/09/2016	0.4900 *	0.2567
Fluoride	mg/L	MW-1S	09/27/2016	0.5100 *	0.2567
Fluoride	mg/L	MW-1S	11/29/2016	0.5800 *	0.2567
Fluoride	mg/L	MW-1S	01/26/2017	0.6900 *	0.2567
Fluoride	mg/L	MW-1S	05/23/2017	0.6900 *	0.2567
Fluoride	mg/L	MW-1S	08/09/2017	0.7000 *	0.2567
Fluoride	mg/L	MW-1S	09/20/2017	0.6200 *	0.2567
Fluoride	mg/L	MW-1S	05/29/2018	0.6200 *	0.2567
Fluoride	mg/L	MW-1S	09/17/2018	0.6200 *	0.2567
Fluoride	mg/L	MW-1S	05/15/2019	0.5000 *	0.2567
Fluoride	mg/L	MW-1S	11/07/2019	0.4200 *	0.2567
Fluoride	mg/L	MW-1S	05/26/2020	0.3600 *	0.2567
Fluoride	mg/L	MW-1S	11/06/2020	0.3500 *	0.2567
Fluoride	mg/L	MW-2S	04/05/2016	0.8400 *	0.2567
Fluoride	mg/L	MW-2S	05/24/2016	1.1000 *	0.2567

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2S	08/08/2016	1.2000 *	0.2567
Fluoride	mg/L	MW-2S	09/26/2016	1.8000 *	0.2567
Fluoride	mg/L	MW-2S	11/28/2016	1.3000 *	0.2567
Fluoride	mg/L	MW-2S	01/24/2017	2.4000 *	0.2567
Fluoride	mg/L	MW-2S	05/22/2017	1.4000 *	0.2567
Fluoride	mg/L	MW-2S	08/07/2017	1.8000 *	0.2567
Fluoride	mg/L	MW-2S	09/20/2017	1.6000 *	0.2567
Fluoride	mg/L	MW-2S	05/29/2018	1.1000 *	0.2567
Fluoride	mg/L	MW-2S	09/17/2018	1.8000 *	0.2567
Fluoride	mg/L	MW-2S	05/14/2019	0.9600 *	0.2567
Fluoride	mg/L	MW-2S	11/05/2019	0.7000 *	0.2567
Fluoride	mg/L	MW-2S	05/19/2020	0.5800 *	0.2567
Fluoride	mg/L	MW-2S	11/04/2020	0.2800 *	0.2567
Fluoride	mg/L	MW-3S	04/05/2016	1.9000 *	0.2567
Fluoride	mg/L	MW-3S	05/25/2016	1.8000 *	0.2567
Fluoride	mg/L	MW-3S	08/08/2016	1.4000 *	0.2567
Fluoride	mg/L	MW-3S	09/26/2016	1.0000 *	0.2567
Fluoride	mg/L	MW-3S	11/28/2016	1.3000 *	0.2567
Fluoride	mg/L	MW-3S	01/24/2017	1.2000 *	0.2567
Fluoride	mg/L	MW-3S	05/22/2017	0.7600 *	0.2567
Fluoride	mg/L	MW-3S	08/07/2017	0.8700 *	0.2567
Fluoride	mg/L	MW-3S	09/20/2017	0.7700 *	0.2567
Fluoride	mg/L	MW-3S	05/29/2018	0.5200 *	0.2567
Fluoride	mg/L	MW-3S	09/17/2018	0.3500 *	0.2567
Fluoride	mg/L	MW-3S	05/14/2019	0.2700 *	0.2567
Fluoride	mg/L	MW-3S	11/05/2019	0.2400 *	0.2567
Fluoride	mg/L	MW-3S	05/18/2020	0.2600 *	0.2567
Fluoride	mg/L	MW-3S	11/03/2020	0.2100 *	0.2567
Fluoride	mg/L	MW-5S	04/06/2016	4.0000 *	0.2567
Fluoride	mg/L	MW-5S	05/25/2016	4.0000 *	0.2567

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-5S	08/09/2016		3.5000	*	0.2567
Fluoride	mg/L	MW-5S	09/27/2016		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	11/29/2016		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	01/25/2017		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	05/23/2017		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	08/08/2017		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	09/20/2017		3.4000	*	0.2567
Fluoride	mg/L	MW-5S	05/30/2018		2.6000	*	0.2567
Fluoride	mg/L	MW-5S	09/18/2018		3.0000	*	0.2567
Fluoride	mg/L	MW-5S	05/14/2019		2.5000	*	0.2567
Fluoride	mg/L	MW-5S	05/18/2020		2.4000	*	0.2567
Fluoride	mg/L	MW-5S	11/05/2020		2.3000	*	0.2567
Fluoride	mg/L	MW-6S	04/06/2016		0.9300	*	0.2567
Fluoride	mg/L	MW-6S	05/25/2016		0.9400	*	0.2567
Fluoride	mg/L	MW-6S	08/09/2016		0.7600	*	0.2567
Fluoride	mg/L	MW-6S	09/27/2016		0.8400	*	0.2567
Fluoride	mg/L	MW-6S	11/29/2016		0.9100	*	0.2567
Fluoride	mg/L	MW-6S	01/25/2017		0.7400	*	0.2567
Fluoride	mg/L	MW-6S	05/23/2017		0.8300	*	0.2567
Fluoride	mg/L	MW-6S	08/08/2017		1.1000	*	0.2567
Fluoride	mg/L	MW-6S	09/20/2017		0.9300	*	0.2567
Fluoride	mg/L	MW-6S	05/30/2018		1.0000	*	0.2567
Fluoride	mg/L	MW-6S	09/18/2018		1.2000	*	0.2567
Fluoride	mg/L	MW-6S	05/14/2019		0.5500	*	0.2567
Fluoride	mg/L	MW-6S	05/28/2020		1.0000	*	0.2567
Fluoride	mg/L	MW-6S	11/09/2020		1.4000	*	0.2567
Fluoride	mg/L	MW-7S	04/06/2016		0.3400	*	0.2567
Fluoride	mg/L	MW-7S	05/25/2016		0.3800	*	0.2567
Fluoride	mg/L	MW-7S	08/09/2016		0.3400	*	0.2567
Fluoride	mg/L	MW-7S	09/27/2016		0.3600	*	0.2567

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-7S	11/29/2016		0.3600	*	0.2567
Fluoride	mg/L	MW-7S	01/25/2017		0.3400	*	0.2567
Fluoride	mg/L	MW-7S	05/23/2017		0.3700	*	0.2567
Fluoride	mg/L	MW-7S	08/08/2017		0.4100	*	0.2567
Fluoride	mg/L	MW-7S	09/20/2017		0.4000	*	0.2567
Fluoride	mg/L	MW-7S	05/30/2018		0.4200	*	0.2567
Fluoride	mg/L	MW-7S	09/18/2018		0.4500	*	0.2567
Fluoride	mg/L	MW-7S	05/15/2019		0.5000	*	0.2567
Fluoride	mg/L	MW-7S	11/06/2019		0.4600	*	0.2567
Fluoride	mg/L	MW-7S	05/27/2020		0.5700	*	0.2567
Fluoride	mg/L	MW-7S	11/17/2020		0.5400	*	0.2567
Lead, Total	mg/L	MW-11S	04/07/2016	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/26/2016	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	08/10/2016	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	09/28/2016	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	11/30/2016	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	01/26/2017	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/24/2017	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	08/09/2017		0.0130	*	0.0100
Lead, Total	mg/L	MW-11S	05/29/2018	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/15/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	11/07/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/27/2020		0.0154	*	0.0100
Lead, Total	mg/L	MW-11S	11/05/2020	ND	0.0200		0.0100
Lithium, Total	mg/L	MW-10S	04/06/2016		0.1060	*	0.0200
Lithium, Total	mg/L	MW-10S	05/25/2016		0.0949	*	0.0200
Lithium, Total	mg/L	MW-10S	08/09/2016		0.0986	*	0.0200
Lithium, Total	mg/L	MW-10S	09/27/2016		0.0793	*	0.0200
Lithium, Total	mg/L	MW-10S	11/29/2016		0.0966	*	0.0200
Lithium, Total	mg/L	MW-10S	01/25/2017		0.0952	*	0.0200

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 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-10S	05/23/2017		0.0720	*	0.0200
Lithium, Total	mg/L	MW-10S	08/08/2017		0.0932	*	0.0200
Lithium, Total	mg/L	MW-10S	05/30/2018		0.0570	*	0.0200
Lithium, Total	mg/L	MW-10S	09/18/2018		0.0592	*	0.0200
Lithium, Total	mg/L	MW-10S	05/16/2019		0.0695	*	0.0200
Lithium, Total	mg/L	MW-10S	11/05/2019		0.0605	*	0.0200
Lithium, Total	mg/L	MW-10S	05/19/2020		0.0758	*	0.0200
Lithium, Total	mg/L	MW-10S	11/05/2020		0.0499	*	0.0200
Lithium, Total	mg/L	MW-11S	04/07/2016	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	05/26/2016	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	08/10/2016	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	09/28/2016	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	11/30/2016		0.0217	*	0.0200
Lithium, Total	mg/L	MW-11S	01/26/2017	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	05/24/2017	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	08/09/2017		0.0390	*	0.0200
Lithium, Total	mg/L	MW-11S	05/29/2018	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	09/14/2018	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	05/15/2019	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	11/07/2019	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-11S	05/27/2020		0.0413	*	0.0200
Lithium, Total	mg/L	MW-11S	11/05/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-12S	04/06/2016		0.2150	*	0.0200
Lithium, Total	mg/L	MW-12S	05/25/2016		0.1960	*	0.0200
Lithium, Total	mg/L	MW-12S	08/09/2016		0.1930	*	0.0200
Lithium, Total	mg/L	MW-12S	09/27/2016		0.1760	*	0.0200
Lithium, Total	mg/L	MW-12S	11/29/2016		0.1890	*	0.0200
Lithium, Total	mg/L	MW-12S	01/25/2017		0.1580	*	0.0200
Lithium, Total	mg/L	MW-12S	05/23/2017		0.1550	*	0.0200
Lithium, Total	mg/L	MW-12S	08/08/2017		0.1600	*	0.0200

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 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-12S	05/30/2018		0.1060	*	0.0200
Lithium, Total	mg/L	MW-12S	09/17/2018		0.1160	*	0.0200
Lithium, Total	mg/L	MW-12S	05/16/2019		0.1270	*	0.0200
Lithium, Total	mg/L	MW-12S	05/29/2020		0.0975	*	0.0200
Lithium, Total	mg/L	MW-12S	11/05/2020		0.0846	*	0.0200
Lithium, Total	mg/L	MW-13S	04/06/2016		0.0890	*	0.0200
Lithium, Total	mg/L	MW-13S	05/25/2016		0.1050	*	0.0200
Lithium, Total	mg/L	MW-13S	08/09/2016		0.1160	*	0.0200
Lithium, Total	mg/L	MW-13S	09/27/2016		0.1190	*	0.0200
Lithium, Total	mg/L	MW-13S	11/29/2016		0.1480	*	0.0200
Lithium, Total	mg/L	MW-13S	01/25/2017		0.1430	*	0.0200
Lithium, Total	mg/L	MW-13S	05/23/2017		0.1160	*	0.0200
Lithium, Total	mg/L	MW-13S	08/08/2017		0.1070	*	0.0200
Lithium, Total	mg/L	MW-13S	05/30/2018		0.0914	*	0.0200
Lithium, Total	mg/L	MW-13S	09/18/2018		0.0846	*	0.0200
Lithium, Total	mg/L	MW-13S	05/15/2019		0.0997	*	0.0200
Lithium, Total	mg/L	MW-13S	11/07/2019		0.0751	*	0.0200
Lithium, Total	mg/L	MW-13S	05/19/2020		0.0836	*	0.0200
Lithium, Total	mg/L	MW-13S	11/05/2020		0.0693	*	0.0200
Lithium, Total	mg/L	MW-2S	04/05/2016		0.1120	*	0.0200
Lithium, Total	mg/L	MW-2S	05/24/2016		0.0876	*	0.0200
Lithium, Total	mg/L	MW-2S	08/08/2016		0.0879	*	0.0200
Lithium, Total	mg/L	MW-2S	09/26/2016		0.0719	*	0.0200
Lithium, Total	mg/L	MW-2S	11/28/2016		0.0882	*	0.0200
Lithium, Total	mg/L	MW-2S	01/24/2017		0.0726	*	0.0200
Lithium, Total	mg/L	MW-2S	05/22/2017		0.0606	*	0.0200
Lithium, Total	mg/L	MW-2S	08/07/2017		0.0752	*	0.0200
Lithium, Total	mg/L	MW-2S	05/29/2018		0.0257	*	0.0200
Lithium, Total	mg/L	MW-2S	09/17/2018		0.0251	*	0.0200
Lithium, Total	mg/L	MW-2S	05/14/2019	ND	0.0200		0.0200

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-2S	11/05/2019		0.0261	*	0.0200
Lithium, Total	mg/L	MW-2S	05/19/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2S	11/04/2020		0.0230	*	0.0200
Lithium, Total	mg/L	MW-5S	04/06/2016		0.0896	*	0.0200
Lithium, Total	mg/L	MW-5S	05/25/2016		0.0783	*	0.0200
Lithium, Total	mg/L	MW-5S	08/09/2016		0.0753	*	0.0200
Lithium, Total	mg/L	MW-5S	09/27/2016		0.0763	*	0.0200
Lithium, Total	mg/L	MW-5S	11/29/2016		0.0946	*	0.0200
Lithium, Total	mg/L	MW-5S	01/25/2017		0.0857	*	0.0200
Lithium, Total	mg/L	MW-5S	05/23/2017		0.0574	*	0.0200
Lithium, Total	mg/L	MW-5S	08/08/2017		0.0639	*	0.0200
Lithium, Total	mg/L	MW-5S	05/30/2018		0.0575	*	0.0200
Lithium, Total	mg/L	MW-5S	09/18/2018		0.0528	*	0.0200
Lithium, Total	mg/L	MW-5S	05/14/2019		0.0599	*	0.0200
Lithium, Total	mg/L	MW-5S	05/18/2020		0.0549	*	0.0200
Lithium, Total	mg/L	MW-5S	11/05/2020		0.0417	*	0.0200
Lithium, Total	mg/L	MW-6S	04/06/2016		0.1120	*	0.0200
Lithium, Total	mg/L	MW-6S	05/25/2016		0.0990	*	0.0200
Lithium, Total	mg/L	MW-6S	08/09/2016		0.1020	*	0.0200
Lithium, Total	mg/L	MW-6S	09/27/2016		0.0891	*	0.0200
Lithium, Total	mg/L	MW-6S	11/29/2016		0.1010	*	0.0200
Lithium, Total	mg/L	MW-6S	01/25/2017		0.1140	*	0.0200
Lithium, Total	mg/L	MW-6S	05/23/2017		0.0990	*	0.0200
Lithium, Total	mg/L	MW-6S	08/08/2017		0.0865	*	0.0200
Lithium, Total	mg/L	MW-6S	05/30/2018		0.0758	*	0.0200
Lithium, Total	mg/L	MW-6S	09/18/2018		0.0584	*	0.0200
Lithium, Total	mg/L	MW-6S	05/14/2019		0.1170	*	0.0200
Lithium, Total	mg/L	MW-6S	05/28/2020		0.0845	*	0.0200
Lithium, Total	mg/L	MW-6S	11/09/2020		0.0619	*	0.0200
Lithium, Total	mg/L	MW-7S	04/06/2016		0.1160	*	0.0200

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 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-7S	05/25/2016	0.1100 *	0.0200
Lithium, Total	mg/L	MW-7S	08/09/2016	0.1090 *	0.0200
Lithium, Total	mg/L	MW-7S	09/27/2016	0.1010 *	0.0200
Lithium, Total	mg/L	MW-7S	11/29/2016	0.1280 *	0.0200
Lithium, Total	mg/L	MW-7S	01/25/2017	0.1450 *	0.0200
Lithium, Total	mg/L	MW-7S	05/23/2017	0.1350 *	0.0200
Lithium, Total	mg/L	MW-7S	08/08/2017	0.1310 *	0.0200
Lithium, Total	mg/L	MW-7S	05/30/2018	0.1030 *	0.0200
Lithium, Total	mg/L	MW-7S	09/18/2018	0.0943 *	0.0200
Lithium, Total	mg/L	MW-7S	05/15/2019	0.1060 *	0.0200
Lithium, Total	mg/L	MW-7S	11/06/2019	0.0898 *	0.0200
Lithium, Total	mg/L	MW-7S	05/27/2020	0.0871 *	0.0200
Lithium, Total	mg/L	MW-7S	11/17/2020	0.0868 *	0.0200
Lithium, Total	mg/L	MW-8S	04/07/2016	0.1820 *	0.0200
Lithium, Total	mg/L	MW-8S	05/26/2016	0.1350 *	0.0200
Lithium, Total	mg/L	MW-8S	08/09/2016	0.2040 *	0.0200
Lithium, Total	mg/L	MW-8S	09/28/2016	0.1840 *	0.0200
Lithium, Total	mg/L	MW-8S	11/30/2016	0.1840 *	0.0200
Lithium, Total	mg/L	MW-8S	01/26/2017	0.1550 *	0.0200
Lithium, Total	mg/L	MW-8S	05/23/2017	0.0940 *	0.0200
Lithium, Total	mg/L	MW-8S	08/09/2017	0.0738 *	0.0200
Lithium, Total	mg/L	MW-8S	05/29/2018	0.1320 *	0.0200
Lithium, Total	mg/L	MW-8S	09/17/2018	0.1470 *	0.0200
Lithium, Total	mg/L	MW-8S	05/15/2019	0.1240 *	0.0200
Lithium, Total	mg/L	MW-8S	11/07/2019	0.1740 *	0.0200
Lithium, Total	mg/L	MW-8S	05/26/2020	0.1240 *	0.0200
Lithium, Total	mg/L	MW-8S	11/09/2020	0.1880 *	0.0200
Lithium, Total	mg/L	MW-9S	04/06/2016	0.1260 *	0.0200
Lithium, Total	mg/L	MW-9S	05/25/2016	0.1100 *	0.0200
Lithium, Total	mg/L	MW-9S	08/08/2016	0.1030 *	0.0200

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 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-9S	09/27/2016	0.0849 *	0.0200
Lithium, Total	mg/L	MW-9S	11/28/2016	0.1160 *	0.0200
Lithium, Total	mg/L	MW-9S	01/25/2017	0.1140 *	0.0200
Lithium, Total	mg/L	MW-9S	05/23/2017	0.0867 *	0.0200
Lithium, Total	mg/L	MW-9S	08/08/2017	0.0906 *	0.0200
Lithium, Total	mg/L	MW-9S	05/30/2018	0.0933 *	0.0200
Lithium, Total	mg/L	MW-9S	09/17/2018	0.0894 *	0.0200
Lithium, Total	mg/L	MW-9S	05/16/2019	0.0703 *	0.0200
Lithium, Total	mg/L	MW-9S	05/29/2020	0.0860 *	0.0200
Lithium, Total	mg/L	MW-9S	11/09/2020	0.0727 *	0.0200
Molybdenum, Total	mg/L	MW-10S	04/06/2016	0.3240 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/25/2016	0.2990 *	0.0100
Molybdenum, Total	mg/L	MW-10S	08/09/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-10S	09/27/2016	0.2470 *	0.0100
Molybdenum, Total	mg/L	MW-10S	11/29/2016	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-10S	01/25/2017	0.2000 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/23/2017	0.2190 *	0.0100
Molybdenum, Total	mg/L	MW-10S	08/08/2017	0.1660 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/30/2018	0.1380 *	0.0100
Molybdenum, Total	mg/L	MW-10S	09/18/2018	0.1170 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/16/2019	0.0934 *	0.0100
Molybdenum, Total	mg/L	MW-10S	11/05/2019	0.0934 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/19/2020	0.0827 *	0.0100
Molybdenum, Total	mg/L	MW-10S	11/05/2020	0.0774 *	0.0100
Molybdenum, Total	mg/L	MW-11S	04/07/2016	0.0773 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/26/2016	0.0815 *	0.0100
Molybdenum, Total	mg/L	MW-11S	08/10/2016	0.0820 *	0.0100
Molybdenum, Total	mg/L	MW-11S	09/28/2016	0.0807 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/30/2016	0.0829 *	0.0100
Molybdenum, Total	mg/L	MW-11S	01/26/2017	0.0834 *	0.0100

* - Significantly increased over background.
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 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-11S	05/24/2017	0.0787 *	0.0100
Molybdenum, Total	mg/L	MW-11S	08/09/2017	0.0735 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/29/2018	0.0733 *	0.0100
Molybdenum, Total	mg/L	MW-11S	09/14/2018	0.0744 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/15/2019	0.0732 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/07/2019	0.0759 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/27/2020	0.0833 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/05/2020	0.0806 *	0.0100
Molybdenum, Total	mg/L	MW-12S	04/06/2016	0.2560 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/25/2016	0.2740 *	0.0100
Molybdenum, Total	mg/L	MW-12S	08/09/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-12S	09/27/2016	0.2650 *	0.0100
Molybdenum, Total	mg/L	MW-12S	11/29/2016	0.2690 *	0.0100
Molybdenum, Total	mg/L	MW-12S	01/25/2017	0.2270 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/23/2017	0.2730 *	0.0100
Molybdenum, Total	mg/L	MW-12S	08/08/2017	0.2830 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/30/2018	0.2870 *	0.0100
Molybdenum, Total	mg/L	MW-12S	09/17/2018	0.2940 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/16/2019	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/29/2020	0.1980 *	0.0100
Molybdenum, Total	mg/L	MW-12S	11/05/2020	0.1960 *	0.0100
Molybdenum, Total	mg/L	MW-13S	04/06/2016	0.5770 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/25/2016	0.5630 *	0.0100
Molybdenum, Total	mg/L	MW-13S	08/09/2016	0.5520 *	0.0100
Molybdenum, Total	mg/L	MW-13S	09/27/2016	0.5170 *	0.0100
Molybdenum, Total	mg/L	MW-13S	11/29/2016	0.5170 *	0.0100
Molybdenum, Total	mg/L	MW-13S	01/25/2017	0.4810 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/23/2017	0.5080 *	0.0100
Molybdenum, Total	mg/L	MW-13S	08/08/2017	0.5110 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/30/2018	0.7200 *	0.0100

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-13S	09/18/2018		0.7700 *		0.0100
Molybdenum, Total	mg/L	MW-13S	05/15/2019		0.7820 *		0.0100
Molybdenum, Total	mg/L	MW-13S	11/07/2019		0.8090 *		0.0100
Molybdenum, Total	mg/L	MW-13S	05/19/2020		0.7460 *		0.0100
Molybdenum, Total	mg/L	MW-13S	11/05/2020		0.7220 *		0.0100
Molybdenum, Total	mg/L	MW-1S	04/07/2016		0.4560 *		0.0100
Molybdenum, Total	mg/L	MW-1S	05/26/2016		0.3090 *		0.0100
Molybdenum, Total	mg/L	MW-1S	08/09/2016		0.1990 *		0.0100
Molybdenum, Total	mg/L	MW-1S	09/27/2016		0.1670 *		0.0100
Molybdenum, Total	mg/L	MW-1S	11/29/2016		0.1510 *		0.0100
Molybdenum, Total	mg/L	MW-1S	01/26/2017		0.2470 *		0.0100
Molybdenum, Total	mg/L	MW-1S	05/23/2017		0.1060 *		0.0100
Molybdenum, Total	mg/L	MW-1S	08/09/2017		0.0886 *		0.0100
Molybdenum, Total	mg/L	MW-1S	05/29/2018		0.0579 *		0.0100
Molybdenum, Total	mg/L	MW-1S	09/17/2018		0.0518 *		0.0100
Molybdenum, Total	mg/L	MW-1S	05/15/2019		0.0505 *		0.0100
Molybdenum, Total	mg/L	MW-1S	11/07/2019		0.0289 *		0.0100
Molybdenum, Total	mg/L	MW-1S	05/26/2020		0.0372 *		0.0100
Molybdenum, Total	mg/L	MW-1S	11/06/2020		0.0254 *		0.0100
Molybdenum, Total	mg/L	MW-2S	04/05/2016		0.4580 *		0.0100
Molybdenum, Total	mg/L	MW-2S	05/24/2016		0.3520 *		0.0100
Molybdenum, Total	mg/L	MW-2S	08/08/2016		0.2480 *		0.0100
Molybdenum, Total	mg/L	MW-2S	09/26/2016		0.1790 *		0.0100
Molybdenum, Total	mg/L	MW-2S	11/28/2016		0.1900 *		0.0100
Molybdenum, Total	mg/L	MW-2S	01/24/2017		0.2140 *		0.0100
Molybdenum, Total	mg/L	MW-2S	05/22/2017		0.1350 *		0.0100
Molybdenum, Total	mg/L	MW-2S	08/07/2017		0.1410 *		0.0100
Molybdenum, Total	mg/L	MW-2S	05/29/2018		0.0783 *		0.0100
Molybdenum, Total	mg/L	MW-2S	09/17/2018		0.0852 *		0.0100
Molybdenum, Total	mg/L	MW-2S	05/14/2019		0.0367 *		0.0100

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
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are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-2S	11/05/2019		0.0314	*	0.0100
Molybdenum, Total	mg/L	MW-2S	05/19/2020		0.0278	*	0.0100
Molybdenum, Total	mg/L	MW-2S	11/04/2020		0.0360	*	0.0100
Molybdenum, Total	mg/L	MW-3S	04/05/2016		0.1390	*	0.0100
Molybdenum, Total	mg/L	MW-3S	05/25/2016		0.1240	*	0.0100
Molybdenum, Total	mg/L	MW-3S	08/08/2016		0.0976	*	0.0100
Molybdenum, Total	mg/L	MW-3S	09/26/2016		0.0777	*	0.0100
Molybdenum, Total	mg/L	MW-3S	11/28/2016		0.0984	*	0.0100
Molybdenum, Total	mg/L	MW-3S	01/24/2017		0.0889	*	0.0100
Molybdenum, Total	mg/L	MW-3S	05/22/2017		0.0639	*	0.0100
Molybdenum, Total	mg/L	MW-3S	08/07/2017		0.0643	*	0.0100
Molybdenum, Total	mg/L	MW-3S	05/29/2018		0.0788	*	0.0100
Molybdenum, Total	mg/L	MW-3S	09/17/2018		0.0522	*	0.0100
Molybdenum, Total	mg/L	MW-3S	05/14/2019		0.0432	*	0.0100
Molybdenum, Total	mg/L	MW-3S	11/05/2019		0.0416	*	0.0100
Molybdenum, Total	mg/L	MW-3S	05/18/2020		0.0492	*	0.0100
Molybdenum, Total	mg/L	MW-3S	11/03/2020		0.0406	*	0.0100
Molybdenum, Total	mg/L	MW-5S	04/06/2016		0.2510	*	0.0100
Molybdenum, Total	mg/L	MW-5S	05/25/2016		0.2660	*	0.0100
Molybdenum, Total	mg/L	MW-5S	08/09/2016		0.2660	*	0.0100
Molybdenum, Total	mg/L	MW-5S	09/27/2016		0.2750	*	0.0100
Molybdenum, Total	mg/L	MW-5S	11/29/2016		0.3210	*	0.0100
Molybdenum, Total	mg/L	MW-5S	01/25/2017		0.3130	*	0.0100
Molybdenum, Total	mg/L	MW-5S	05/23/2017		0.3190	*	0.0100
Molybdenum, Total	mg/L	MW-5S	08/08/2017		0.3070	*	0.0100
Molybdenum, Total	mg/L	MW-5S	05/30/2018		0.2650	*	0.0100
Molybdenum, Total	mg/L	MW-5S	09/18/2018		0.2540	*	0.0100
Molybdenum, Total	mg/L	MW-5S	05/14/2019		0.2310	*	0.0100
Molybdenum, Total	mg/L	MW-5S	05/18/2020		0.2180	*	0.0100
Molybdenum, Total	mg/L	MW-5S	11/05/2020		0.1820	*	0.0100

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
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are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-6S	04/06/2016	0.3090 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/25/2016	0.2610 *	0.0100
Molybdenum, Total	mg/L	MW-6S	08/09/2016	0.2400 *	0.0100
Molybdenum, Total	mg/L	MW-6S	09/27/2016	0.2260 *	0.0100
Molybdenum, Total	mg/L	MW-6S	11/29/2016	0.2430 *	0.0100
Molybdenum, Total	mg/L	MW-6S	01/25/2017	0.1660 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/23/2017	0.1420 *	0.0100
Molybdenum, Total	mg/L	MW-6S	08/08/2017	0.1850 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/30/2018	0.1500 *	0.0100
Molybdenum, Total	mg/L	MW-6S	09/18/2018	0.1570 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/14/2019	0.0656 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/28/2020	0.1460 *	0.0100
Molybdenum, Total	mg/L	MW-6S	11/09/2020	0.2110 *	0.0100
Molybdenum, Total	mg/L	MW-7S	04/06/2016	0.4350 *	0.0100
Molybdenum, Total	mg/L	MW-7S	05/25/2016	0.4480 *	0.0100
Molybdenum, Total	mg/L	MW-7S	08/09/2016	0.4770 *	0.0100
Molybdenum, Total	mg/L	MW-7S	09/27/2016	0.4680 *	0.0100
Molybdenum, Total	mg/L	MW-7S	11/29/2016	0.4860 *	0.0100
Molybdenum, Total	mg/L	MW-7S	01/25/2017	0.4390 *	0.0100
Molybdenum, Total	mg/L	MW-7S	05/23/2017	0.4290 *	0.0100
Molybdenum, Total	mg/L	MW-7S	08/08/2017	0.4250 *	0.0100
Molybdenum, Total	mg/L	MW-7S	05/30/2018	0.5280 *	0.0100
Molybdenum, Total	mg/L	MW-7S	09/18/2018	0.5180 *	0.0100
Molybdenum, Total	mg/L	MW-7S	05/15/2019	0.5750 *	0.0100
Molybdenum, Total	mg/L	MW-7S	11/06/2019	0.6080 *	0.0100
Molybdenum, Total	mg/L	MW-7S	05/27/2020	0.7050 *	0.0100
Molybdenum, Total	mg/L	MW-7S	11/17/2020	0.6810 *	0.0100
Molybdenum, Total	mg/L	MW-8S	04/07/2016	0.2580 *	0.0100
Molybdenum, Total	mg/L	MW-8S	05/26/2016	0.2100 *	0.0100
Molybdenum, Total	mg/L	MW-8S	08/09/2016	0.3290 *	0.0100

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-8S	09/28/2016		0.3310	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/30/2016		0.3890	*	0.0100
Molybdenum, Total	mg/L	MW-8S	01/26/2017		0.2940	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/23/2017		0.2080	*	0.0100
Molybdenum, Total	mg/L	MW-8S	08/09/2017		0.1500	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/29/2018		0.4190	*	0.0100
Molybdenum, Total	mg/L	MW-8S	09/17/2018		0.3110	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/15/2019		0.3290	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/07/2019		0.5300	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/26/2020		0.3060	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/09/2020		0.5320	*	0.0100
Molybdenum, Total	mg/L	MW-9S	04/06/2016		0.5190	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/25/2016		0.4380	*	0.0100
Molybdenum, Total	mg/L	MW-9S	08/08/2016		0.3740	*	0.0100
Molybdenum, Total	mg/L	MW-9S	09/27/2016		0.3440	*	0.0100
Molybdenum, Total	mg/L	MW-9S	11/28/2016		0.3680	*	0.0100
Molybdenum, Total	mg/L	MW-9S	01/25/2017		0.2900	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/23/2017		0.2170	*	0.0100
Molybdenum, Total	mg/L	MW-9S	08/08/2017		0.1910	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/30/2018		0.1160	*	0.0100
Molybdenum, Total	mg/L	MW-9S	09/17/2018		0.0984	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/16/2019		0.1180	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/29/2020		0.0939	*	0.0100
Molybdenum, Total	mg/L	MW-9S	11/09/2020		0.2010	*	0.0100
Selenium, Total	mg/L	MW-3S	04/05/2016		0.0111	*	0.0040
Selenium, Total	mg/L	MW-3S	05/25/2016		0.0107	*	0.0040
Selenium, Total	mg/L	MW-3S	08/08/2016		0.0150	*	0.0040
Selenium, Total	mg/L	MW-3S	09/26/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-3S	11/28/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-3S	01/24/2017	ND	0.0100		0.0040

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Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	mg/L	MW-3S	05/22/2017	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-3S	08/07/2017	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-3S	05/29/2018	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-3S	09/17/2018		0.0034		0.0040
Selenium, Total	mg/L	MW-3S	05/14/2019		0.0165	*	0.0040
Selenium, Total	mg/L	MW-3S	11/05/2019	ND	0.0010		0.0040
Selenium, Total	mg/L	MW-3S	05/18/2020		0.0082	*	0.0040
Selenium, Total	mg/L	MW-3S	11/03/2020		0.0015		0.0040
Selenium, Total	mg/L	MW-4S	04/05/2016		0.0508	*	0.0040
Selenium, Total	mg/L	MW-4S	05/25/2016		0.0315	*	0.0040
Selenium, Total	mg/L	MW-4S	08/08/2016		0.0356	*	0.0040
Selenium, Total	mg/L	MW-4S	09/26/2016		0.0134	*	0.0040
Selenium, Total	mg/L	MW-4S	11/29/2016		0.0390	*	0.0040
Selenium, Total	mg/L	MW-4S	01/24/2017		0.0196	*	0.0040
Selenium, Total	mg/L	MW-4S	05/22/2017		0.0205	*	0.0040
Selenium, Total	mg/L	MW-4S	08/07/2017		0.0199	*	0.0040
Selenium, Total	mg/L	MW-4S	05/29/2018	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-4S	09/14/2018		0.0338	*	0.0040
Selenium, Total	mg/L	MW-4S	05/14/2019		0.0161	*	0.0040
Selenium, Total	mg/L	MW-4S	06/05/2020		0.0124	*	0.0040
Selenium, Total	mg/L	MW-4S	11/03/2020		0.0414	*	0.0040
Selenium, Total	mg/L	MW-9S	04/06/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	05/25/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	08/08/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	09/27/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	11/28/2016	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	01/25/2017	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	05/23/2017	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	08/08/2017	ND	0.0100		0.0040
Selenium, Total	mg/L	MW-9S	05/30/2018		0.1460	*	0.0040

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	mg/L	MW-9S	09/17/2018		0.0660	*	0.0040
Selenium, Total	mg/L	MW-9S	05/16/2019		0.0020		0.0040
Selenium, Total	mg/L	MW-9S	05/29/2020		0.1200	*	0.0040
Selenium, Total	mg/L	MW-9S	11/09/2020		0.0159	*	0.0040
Total Radium	pCi/L	MW-10S	04/06/2016		1.1700		2.5586
Total Radium	pCi/L	MW-10S	05/25/2016		0.7040		2.5586
Total Radium	pCi/L	MW-10S	08/09/2016		1.1400		2.5586
Total Radium	pCi/L	MW-10S	09/27/2016		1.3300		2.5586
Total Radium	pCi/L	MW-10S	11/29/2016		1.5400		2.5586
Total Radium	pCi/L	MW-10S	01/25/2017	ND	1.7300		2.5586
Total Radium	pCi/L	MW-10S	05/23/2017		1.1200		2.5586
Total Radium	pCi/L	MW-10S	08/08/2017		1.4000		2.5586
Total Radium	pCi/L	MW-10S	05/30/2018		1.1700		2.5586
Total Radium	pCi/L	MW-10S	09/18/2018		1.7600		2.5586
Total Radium	pCi/L	MW-10S	05/16/2019		1.0300		2.5586
Total Radium	pCi/L	MW-10S	11/05/2019		0.6290		2.5586
Total Radium	pCi/L	MW-10S	05/19/2020		0.9880		2.5586
Total Radium	pCi/L	MW-10S	11/05/2020		4.0700	*	2.5586
Total Radium	pCi/L	MW-1S	04/07/2016		2.0400		2.5586
Total Radium	pCi/L	MW-1S	05/26/2016		1.5300		2.5586
Total Radium	pCi/L	MW-1S	08/09/2016		4.2400	*	2.5586
Total Radium	pCi/L	MW-1S	09/27/2016		1.7500		2.5586
Total Radium	pCi/L	MW-1S	11/29/2016		1.3400		2.5586
Total Radium	pCi/L	MW-1S	01/26/2017		2.1400		2.5586
Total Radium	pCi/L	MW-1S	05/23/2017		2.4100		2.5586
Total Radium	pCi/L	MW-1S	08/09/2017		1.2400		2.5586
Total Radium	pCi/L	MW-1S	05/29/2018		4.8400	*	2.5586
Total Radium	pCi/L	MW-1S	09/17/2018		2.2700		2.5586
Total Radium	pCi/L	MW-1S	05/15/2019		1.7600		2.5586
Total Radium	pCi/L	MW-1S	11/07/2019		5.3800	*	2.5586

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Total Radium	pCi/L	MW-1S	05/26/2020	0.9380	2.5586
Total Radium	pCi/L	MW-1S	11/06/2020	3.0800 *	2.5586
Total Radium	pCi/L	MW-2S	04/05/2016	1.6900	2.5586
Total Radium	pCi/L	MW-2S	05/24/2016	2.2300	2.5586
Total Radium	pCi/L	MW-2S	08/08/2016	1.2300	2.5586
Total Radium	pCi/L	MW-2S	09/26/2016	0.9650	2.5586
Total Radium	pCi/L	MW-2S	11/28/2016	2.4400	2.5586
Total Radium	pCi/L	MW-2S	01/24/2017	0.9750	2.5586
Total Radium	pCi/L	MW-2S	05/22/2017	1.5000	2.5586
Total Radium	pCi/L	MW-2S	08/07/2017	1.3000	2.5586
Total Radium	pCi/L	MW-2S	05/29/2018	1.3800	2.5586
Total Radium	pCi/L	MW-2S	09/17/2018	1.1400	2.5586
Total Radium	pCi/L	MW-2S	05/14/2019	2.1200	2.5586
Total Radium	pCi/L	MW-2S	11/05/2019	2.6900 *	2.5586
Total Radium	pCi/L	MW-2S	05/19/2020	1.3600	2.5586
Total Radium	pCi/L	MW-2S	11/04/2020	4.4600 *	2.5586

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

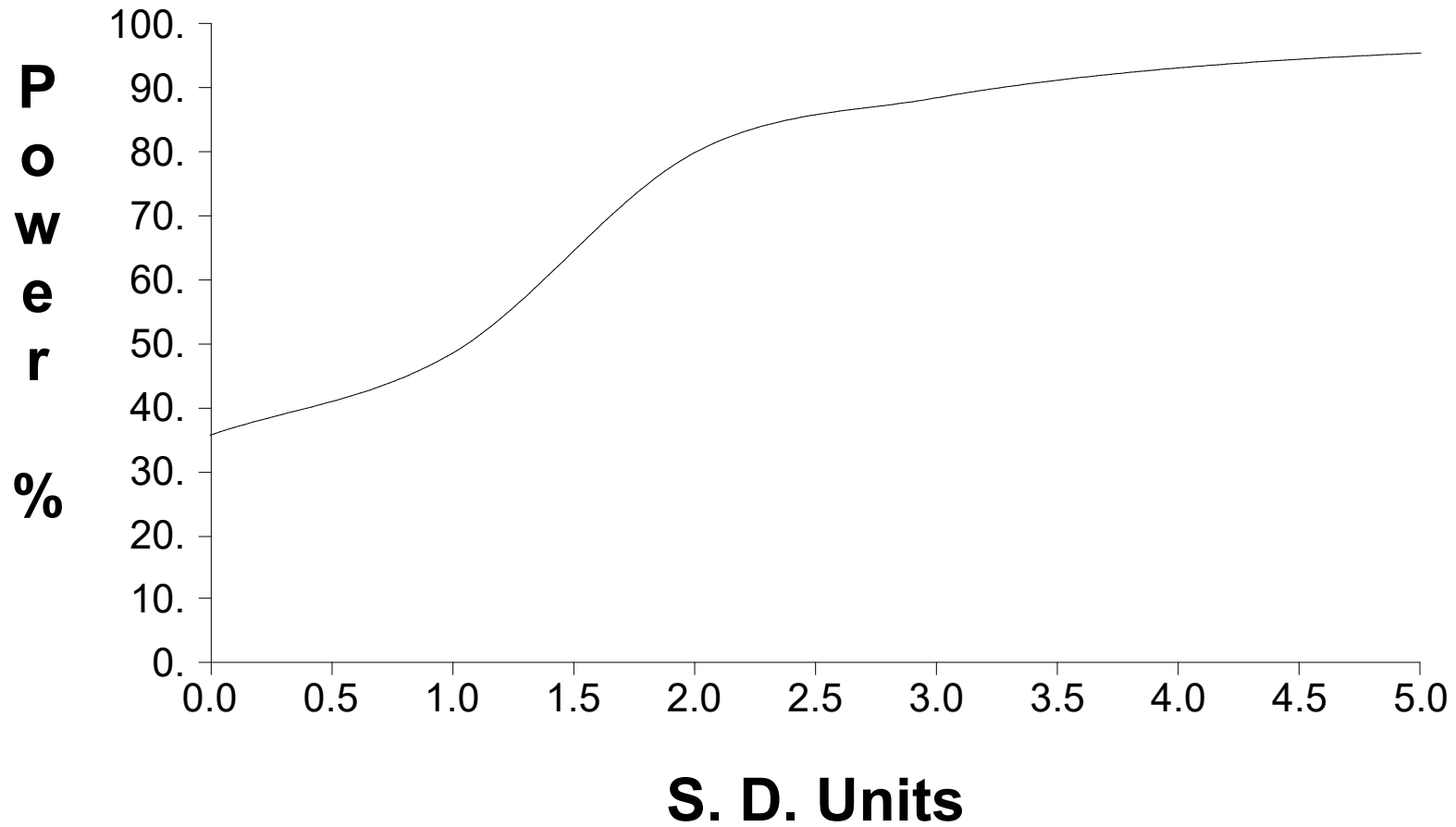


Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted
Antimony, Total	mg/L	MW-15D	09/18/2018	ND	0.0010	
Antimony, Total	mg/L	MW-15D	11/29/2018	ND	0.0010	
Antimony, Total	mg/L	MW-15D	02/04/2019	ND	0.0010	
Antimony, Total	mg/L	MW-15D	03/25/2019	ND	0.0010	
Antimony, Total	mg/L	MW-15D	05/14/2019	ND	0.0010	
Antimony, Total	mg/L	MW-15D	07/24/2019	ND	0.0010	
Antimony, Total	mg/L	MW-15D	11/05/2019	ND	0.0010	
Antimony, Total	mg/L	MW-15D	01/29/2020	ND	0.0010	
Antimony, Total	mg/L	MW-15D	05/27/2020	ND	0.0010	
Antimony, Total	mg/L	MW-15D	11/03/2020	ND	0.0010	
Arsenic, Total	mg/L	MW-15D	09/18/2018		0.0013	
Arsenic, Total	mg/L	MW-15D	11/29/2018		0.0012	
Arsenic, Total	mg/L	MW-15D	02/04/2019		0.0013	
Arsenic, Total	mg/L	MW-15D	03/25/2019		0.0011	
Arsenic, Total	mg/L	MW-15D	05/14/2019		0.0010	
Arsenic, Total	mg/L	MW-15D	07/24/2019		0.0011	
Arsenic, Total	mg/L	MW-15D	11/05/2019		0.0011	
Arsenic, Total	mg/L	MW-15D	01/29/2020		0.0011	
Arsenic, Total	mg/L	MW-15D	05/27/2020		0.0012	
Arsenic, Total	mg/L	MW-15D	11/03/2020		0.0017	
Barium, Total	mg/L	MW-15D	09/18/2018		0.0714	
Barium, Total	mg/L	MW-15D	11/29/2018		0.0678	
Barium, Total	mg/L	MW-15D	02/04/2019		0.0696	
Barium, Total	mg/L	MW-15D	03/25/2019		0.0684	
Barium, Total	mg/L	MW-15D	05/14/2019		0.0656	
Barium, Total	mg/L	MW-15D	07/24/2019		0.0646	
Barium, Total	mg/L	MW-15D	11/05/2019		0.0653	
Barium, Total	mg/L	MW-15D	01/29/2020		0.0652	
Barium, Total	mg/L	MW-15D	05/27/2020		0.0642	
Barium, Total	mg/L	MW-15D	11/03/2020		0.0632	
Beryllium, Total	mg/L	MW-15D	09/18/2018	ND	0.0002	
Beryllium, Total	mg/L	MW-15D	11/29/2018	ND	0.0002	
Beryllium, Total	mg/L	MW-15D	02/04/2019	ND	0.0002	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Beryllium, Total	mg/L	MW-15D	03/25/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	05/14/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	07/24/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	11/05/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	01/29/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	05/27/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	11/03/2020	ND	0.0002		
Cadmium, Total	mg/L	MW-15D	09/18/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	11/29/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	02/04/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	03/25/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	05/14/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	07/24/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	11/05/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010	0.0020	**
Cadmium, Total	mg/L	MW-15D	05/27/2020	ND	0.0020		
Chromium, Total	mg/L	MW-15D	09/18/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/29/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15D	02/04/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	03/25/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	05/14/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	07/24/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/05/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	01/29/2020	ND	0.0200	0.0100	**
Chromium, Total	mg/L	MW-15D	05/27/2020	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/03/2020	ND	0.0100		
Cobalt, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-15D	11/03/2020	ND	0.0010		
Fluoride	mg/L	MW-15D	09/18/2018	ND	0.1000		
Fluoride	mg/L	MW-15D	11/29/2018		0.1200		
Fluoride	mg/L	MW-15D	02/04/2019		0.1200		
Fluoride	mg/L	MW-15D	03/25/2019		0.1300		
Fluoride	mg/L	MW-15D	05/14/2019		0.1100		
Fluoride	mg/L	MW-15D	07/24/2019	ND	0.1000		
Fluoride	mg/L	MW-15D	11/05/2019	ND	0.1000		
Fluoride	mg/L	MW-15D	01/29/2020		0.1000		
Fluoride	mg/L	MW-15D	05/27/2020		0.1100		
Fluoride	mg/L	MW-15D	11/03/2020	ND	0.1000		
Lead, Total	mg/L	MW-15D	09/18/2018	ND	0.0100		
Lead, Total	mg/L	MW-15D	11/29/2018	ND	0.0100		
Lead, Total	mg/L	MW-15D	02/04/2019	ND	0.0100		
Lead, Total	mg/L	MW-15D	03/25/2019	ND	0.0100		
Lead, Total	mg/L	MW-15D	05/14/2019	ND	0.0100		
Lead, Total	mg/L	MW-15D	07/24/2019	ND	0.0100		
Lead, Total	mg/L	MW-15D	11/05/2019	ND	0.0100		
Lead, Total	mg/L	MW-15D	01/29/2020	ND	0.0100		
Lead, Total	mg/L	MW-15D	05/27/2020	ND	0.0100		
Lead, Total	mg/L	MW-15D	11/03/2020	ND	0.0100		
Lithium, Total	mg/L	MW-15D	09/18/2018	ND	0.0200		
Lithium, Total	mg/L	MW-15D	11/29/2018	ND	0.0200		
Lithium, Total	mg/L	MW-15D	02/04/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15D	03/25/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15D	05/14/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15D	07/24/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15D	11/05/2019	ND	0.0200		
Lithium, Total	mg/L	MW-15D	01/29/2020	ND	0.0200		
Lithium, Total	mg/L	MW-15D	05/27/2020	ND	0.0200		
Lithium, Total	mg/L	MW-15D	11/03/2020	ND	0.0200		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Mercury	mg/L	MW-15D	09/18/2018	ND	0.0020		
Mercury	mg/L	MW-15D	11/29/2018	ND	0.0020		
Mercury	mg/L	MW-15D	02/04/2019	ND	0.0020		
Mercury	mg/L	MW-15D	03/25/2019	ND	0.0020		
Mercury	mg/L	MW-15D	05/14/2019	ND	0.0020		
Mercury	mg/L	MW-15D	07/24/2019	ND	0.0020		
Mercury	mg/L	MW-15D	11/05/2019	ND	0.0020		
Mercury	mg/L	MW-15D	01/29/2020	ND	0.0002	0.0020	**
Mercury	mg/L	MW-15D	05/27/2020	ND	0.0020		
Molybdenum, Total	mg/L	MW-15D	09/18/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	11/29/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	02/04/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	03/25/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	05/14/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	07/24/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	11/05/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	01/29/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	05/27/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	11/03/2020	ND	0.0100		
Selenium, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Selenium, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/03/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1
Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Total Radium	pCi/L	MW-15D	09/18/2018		1.1700		
Total Radium	pCi/L	MW-15D	11/29/2018		1.6500		
Total Radium	pCi/L	MW-15D	02/04/2019		1.0600		
Total Radium	pCi/L	MW-15D	03/25/2019		1.4600		
Total Radium	pCi/L	MW-15D	05/14/2019		2.0600		
Total Radium	pCi/L	MW-15D	07/24/2019		1.4500		
Total Radium	pCi/L	MW-15D	11/05/2019		1.1000		
Total Radium	pCi/L	MW-15D	01/29/2020		0.8340		
Total Radium	pCi/L	MW-15D	05/27/2020		1.2100		
Total Radium	pCi/L	MW-15D	11/03/2020		1.4300		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-10D	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-11D	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-12D	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-13D	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-14D	11/05/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	11/06/2020		0.0031	*	0.0010
Antimony, Total	mg/L	MW-2D	11/04/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-3D	11/03/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-7D	11/17/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9D	11/04/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9I	11/04/2020	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-10D	11/05/2020		0.2650	***	0.0018
Arsenic, Total	mg/L	MW-11D	11/05/2020		0.0144	***	0.0018
Arsenic, Total	mg/L	MW-12D	11/05/2020		0.5130	***	0.0018
Arsenic, Total	mg/L	MW-13D	11/05/2020		0.2240	***	0.0018
Arsenic, Total	mg/L	MW-14D	11/05/2020		0.1050	***	0.0018
Arsenic, Total	mg/L	MW-1D	11/06/2020		0.0506	***	0.0018
Arsenic, Total	mg/L	MW-2D	11/04/2020		0.0038	***	0.0018
Arsenic, Total	mg/L	MW-3D	11/03/2020		0.0029	***	0.0018
Arsenic, Total	mg/L	MW-7D	11/17/2020		0.4020	***	0.0018
Arsenic, Total	mg/L	MW-9D	11/04/2020		0.0047	***	0.0018
Arsenic, Total	mg/L	MW-9I	11/04/2020		0.0046	***	0.0018
Barium, Total	mg/L	MW-10D	11/05/2020		0.0303		0.0743
Barium, Total	mg/L	MW-11D	11/05/2020		0.0317		0.0743
Barium, Total	mg/L	MW-12D	11/05/2020		0.0275		0.0743
Barium, Total	mg/L	MW-13D	11/05/2020		0.0308		0.0743
Barium, Total	mg/L	MW-14D	11/05/2020		0.0494		0.0743
Barium, Total	mg/L	MW-1D	11/06/2020		0.1130	*	0.0743
Barium, Total	mg/L	MW-2D	11/04/2020		0.1080	*	0.0743
Barium, Total	mg/L	MW-3D	11/03/2020		0.0532		0.0743
Barium, Total	mg/L	MW-7D	11/17/2020		0.0376		0.0743

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-9D	11/04/2020		0.0518		0.0743
Barium, Total	mg/L	MW-9I	11/04/2020		0.0671		0.0743
Beryllium, Total	mg/L	MW-10D	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11D	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-12D	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-13D	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-14D	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-1D	11/06/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-2D	11/04/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-3D	11/03/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-7D	11/17/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9D	11/04/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9I	11/04/2020	ND	0.0002		0.0002
Cadmium, Total	mg/L	MW-10D	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-11D	05/27/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-12D	05/18/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-13D	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-14D	05/26/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1D	05/26/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2D	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-3D	05/18/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-7D	05/27/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-9D	05/19/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-9I	05/19/2020	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-10D	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11D	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-12D	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-13D	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-14D	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1D	11/06/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2D	11/04/2020	ND	0.0100		0.0100

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Chromium, Total	mg/L	MW-3D	11/03/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-7D	11/17/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9D	11/04/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9I	11/04/2020	ND	0.0100		0.0100
Cobalt, Total	mg/L	MW-10D	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11D	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-12D	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-13D	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-14D	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-1D	11/06/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2D	11/04/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-3D	11/03/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-7D	11/17/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9D	11/04/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9I	11/04/2020	ND	0.0010		0.0010
Fluoride	mg/L	MW-10D	11/05/2020		2.6000	***	0.2464
Fluoride	mg/L	MW-11D	11/05/2020		0.4300	***	0.2464
Fluoride	mg/L	MW-12D	11/05/2020		0.9700	***	0.2464
Fluoride	mg/L	MW-13D	11/05/2020		0.6200	***	0.2464
Fluoride	mg/L	MW-14D	11/05/2020		0.2600	*	0.2464
Fluoride	mg/L	MW-1D	11/06/2020		0.3300	***	0.2464
Fluoride	mg/L	MW-2D	11/04/2020		1.0000	***	0.2464
Fluoride	mg/L	MW-3D	11/03/2020		0.2000		0.2464
Fluoride	mg/L	MW-7D	11/17/2020		0.4200	***	0.2464
Fluoride	mg/L	MW-9D	11/04/2020		0.4200	***	0.2464
Fluoride	mg/L	MW-9I	11/04/2020		0.7800	***	0.2464
Lead, Total	mg/L	MW-10D	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11D	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-12D	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-13D	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-14D	11/05/2020	ND	0.0100		0.0100

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lead, Total	mg/L	MW-1D	11/06/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2D	11/04/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3D	11/03/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-7D	11/17/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9D	11/04/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9I	11/04/2020	ND	0.0100		0.0100
Lithium, Total	mg/L	MW-10D	11/05/2020		0.0522	***	0.0200
Lithium, Total	mg/L	MW-11D	11/05/2020		0.1340	***	0.0200
Lithium, Total	mg/L	MW-12D	11/05/2020		0.1080	***	0.0200
Lithium, Total	mg/L	MW-13D	11/05/2020		0.0796	***	0.0200
Lithium, Total	mg/L	MW-14D	11/05/2020		0.4450	***	0.0200
Lithium, Total	mg/L	MW-1D	11/06/2020	ND	0.0200	**	0.0200
Lithium, Total	mg/L	MW-2D	11/04/2020		0.0554	***	0.0200
Lithium, Total	mg/L	MW-3D	11/03/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-7D	11/17/2020		0.0917	***	0.0200
Lithium, Total	mg/L	MW-9D	11/04/2020		0.0252	***	0.0200
Lithium, Total	mg/L	MW-9I	11/04/2020		0.0233	***	0.0200
Mercury	mg/L	MW-10D	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-11D	05/27/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-12D	05/18/2020		0.0018		0.0020
Mercury	mg/L	MW-13D	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-14D	05/26/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-1D	05/26/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-2D	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-3D	05/18/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-7D	05/27/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-9D	05/19/2020	ND	0.0002		0.0020
Mercury	mg/L	MW-9I	05/19/2020	ND	0.0002		0.0020
Molybdenum, Total	mg/L	MW-10D	11/05/2020		0.0886	***	0.0100
Molybdenum, Total	mg/L	MW-11D	11/05/2020	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-12D	11/05/2020		0.2000	***	0.0100

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-13D	11/05/2020		0.8590	***	0.0100
Molybdenum, Total	mg/L	MW-14D	11/05/2020		0.2590	***	0.0100
Molybdenum, Total	mg/L	MW-1D	11/06/2020		0.0346	***	0.0100
Molybdenum, Total	mg/L	MW-2D	11/04/2020		0.0769	***	0.0100
Molybdenum, Total	mg/L	MW-3D	11/03/2020	ND	0.0100	**	0.0100
Molybdenum, Total	mg/L	MW-7D	11/17/2020		0.6970	***	0.0100
Molybdenum, Total	mg/L	MW-9D	11/04/2020		0.0452	***	0.0100
Molybdenum, Total	mg/L	MW-9I	11/04/2020		0.0892	***	0.0100
Selenium, Total	mg/L	MW-10D	11/05/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-11D	11/05/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-12D	11/05/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-13D	11/05/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-14D	11/05/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-1D	11/06/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-2D	11/04/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-3D	11/03/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-7D	11/17/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-9D	11/04/2020	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-9I	11/04/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-10D	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-11D	05/27/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-12D	05/18/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-13D	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-14D	05/26/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-1D	05/26/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-2D	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-3D	05/18/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-7D	05/27/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9D	05/19/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9I	05/19/2020	ND	0.0010		0.0010
Total Radium	pCi/L	MW-10D	11/05/2020	ND	3.1700		2.3707

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Total Radium	pCi/L	MW-11D	11/05/2020	ND	2.3500		2.3707
Total Radium	pCi/L	MW-12D	11/05/2020		1.1300		2.3707
Total Radium	pCi/L	MW-13D	11/05/2020		1.5300		2.3707
Total Radium	pCi/L	MW-14D	11/05/2020		1.6300		2.3707
Total Radium	pCi/L	MW-1D	11/06/2020		3.3300	*	2.3707
Total Radium	pCi/L	MW-2D	11/04/2020		3.9600	*	2.3707
Total Radium	pCi/L	MW-3D	11/03/2020		1.5400		2.3707
Total Radium	pCi/L	MW-7D	11/17/2020	ND	1.5800		2.3707
Total Radium	pCi/L	MW-9D	11/04/2020		1.2200		2.3707
Total Radium	pCi/L	MW-9I	11/04/2020		2.4200	*	2.3707

- * - Current value failed - awaiting verification.
 - ** - Current value passed - previous exceedance not verified.
 - *** - Current value failed - exceedance verified.
 - **** - Current value passed - awaiting one more verification.
 - ***** - Insufficient background data to compute prediction limit.
- ND = Not Detected, Result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	10	0.000	1	154	0.006
Arsenic, Total	10	10	1.000	111	154	0.721
Barium, Total	10	10	1.000	154	154	1.000
Beryllium, Total	0	10	0.000	0	143	0.000
Cadmium, Total	0	9	0.000	4	132	0.030
Chromium, Total	0	10	0.000	4	154	0.026
Cobalt, Total	0	10	0.000	1	143	0.007
Fluoride	6	10	0.600	164	165	0.994
Lead, Total	0	10	0.000	0	143	0.000
Lithium, Total	0	10	0.000	148	154	0.961
Mercury	0	9	0.000	1	132	0.008
Molybdenum, Total	0	10	0.000	139	154	0.903
Selenium, Total	0	10	0.000	0	154	0.000
Thallium, Total	0	9	0.000	0	132	0.000
Total Radium	10	10	1.000	134	154	0.870

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Arsenic, Total	10	10	1.000	2.180	1.562					2.326	normal	normal
Barium, Total	10	10	1.000	0.225	0.113					2.326	normal	normal
Beryllium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Cadmium, Total	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Chromium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Cobalt, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Fluoride	6	10	0.600	2.019	2.002					2.326	normal	normal
Lead, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Lithium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Mercury	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Molybdenum, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Selenium, Total	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Thallium, Total	0	9	0.000	2.968	2.968					2.326	non-norm	nonpar
Total Radium	10	10	1.000	0.462	1.834					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if $G \leq$ critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	mg/L	0	10					0.0010	nonpar	***	0.87
Arsenic, Total	mg/L	10	10	0.0012	0.0002	0.0100	2.9590	0.0018	normal		
Barium, Total	mg/L	10	10	0.0665	0.0026	0.0100	2.9590	0.0743	normal		
Beryllium, Total	mg/L	0	10					0.0002	nonpar	***	0.87
Cadmium, Total	mg/L	0	9					0.0020	nonpar	***	0.85
Chromium, Total	mg/L	0	10					0.0100	nonpar	***	0.87
Cobalt, Total	mg/L	0	10					0.0010	nonpar	***	0.87
Fluoride	mg/L	6	10	0.0690	0.0599	0.0100	2.9590	0.2464	normal		
Lead, Total	mg/L	0	10					0.0100	nonpar	***	0.87
Lithium, Total	mg/L	0	10					0.0200	nonpar	***	0.87
Mercury	mg/L	0	9					0.0020	nonpar	***	0.85
Molybdenum, Total	mg/L	0	10					0.0100	nonpar	***	0.87
Selenium, Total	mg/L	0	10					0.0010	nonpar	***	0.87
Thallium, Total	mg/L	0	9					0.0010	nonpar	***	0.85
Total Radium	pCi/L	10	10	1.3424	0.3475	0.0100	2.9590	2.3707	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-1D	04/07/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	05/26/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	08/09/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	09/27/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	11/29/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	01/26/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	05/23/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	08/09/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	05/29/2018	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1D	09/17/2018	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	05/15/2019	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	11/07/2019	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	05/26/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	11/06/2020		0.0031	*	0.0010
Arsenic, Total	mg/L	MW-10D	04/06/2016		0.4120	*	0.0018
Arsenic, Total	mg/L	MW-10D	05/25/2016		0.4400	*	0.0018
Arsenic, Total	mg/L	MW-10D	08/09/2016		0.4640	*	0.0018
Arsenic, Total	mg/L	MW-10D	09/27/2016		0.4880	*	0.0018
Arsenic, Total	mg/L	MW-10D	11/29/2016		0.4060	*	0.0018
Arsenic, Total	mg/L	MW-10D	01/25/2017		0.4330	*	0.0018
Arsenic, Total	mg/L	MW-10D	05/23/2017		0.3990	*	0.0018
Arsenic, Total	mg/L	MW-10D	08/08/2017		0.4470	*	0.0018
Arsenic, Total	mg/L	MW-10D	05/30/2018		0.3960	*	0.0018
Arsenic, Total	mg/L	MW-10D	09/18/2018		0.3230	*	0.0018
Arsenic, Total	mg/L	MW-10D	05/16/2019		0.3130	*	0.0018
Arsenic, Total	mg/L	MW-10D	11/05/2019		0.2750	*	0.0018
Arsenic, Total	mg/L	MW-10D	05/19/2020		0.2680	*	0.0018
Arsenic, Total	mg/L	MW-10D	11/05/2020		0.2650	*	0.0018
Arsenic, Total	mg/L	MW-11D	04/07/2016		0.0106	*	0.0018
Arsenic, Total	mg/L	MW-11D	05/26/2016	ND	0.0100		0.0018

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Arsenic, Total	mg/L	MW-11D	08/10/2016	0.0144 *	0.0018
Arsenic, Total	mg/L	MW-11D	09/28/2016	0.0148 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/30/2016	0.0120 *	0.0018
Arsenic, Total	mg/L	MW-11D	01/26/2017	0.0107 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/24/2017	0.0144 *	0.0018
Arsenic, Total	mg/L	MW-11D	08/09/2017	0.0145 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/29/2018	0.0182 *	0.0018
Arsenic, Total	mg/L	MW-11D	09/14/2018	0.0146 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/14/2019	0.0143 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/07/2019	0.0154 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/27/2020	0.0157 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/05/2020	0.0144 *	0.0018
Arsenic, Total	mg/L	MW-12D	04/06/2016	0.2410 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/25/2016	0.2520 *	0.0018
Arsenic, Total	mg/L	MW-12D	08/09/2016	0.2430 *	0.0018
Arsenic, Total	mg/L	MW-12D	09/27/2016	0.2570 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/29/2016	0.2800 *	0.0018
Arsenic, Total	mg/L	MW-12D	01/25/2017	0.2750 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/23/2017	0.2680 *	0.0018
Arsenic, Total	mg/L	MW-12D	08/08/2017	0.2040 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/30/2018	0.2230 *	0.0018
Arsenic, Total	mg/L	MW-12D	09/17/2018	0.2140 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/16/2019	0.2100 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/06/2019	0.2320 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/18/2020	0.2870 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/05/2020	0.5130 *	0.0018
Arsenic, Total	mg/L	MW-13D	04/06/2016	0.2140 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/25/2016	0.2150 *	0.0018
Arsenic, Total	mg/L	MW-13D	08/09/2016	0.2450 *	0.0018
Arsenic, Total	mg/L	MW-13D	09/27/2016	0.2820 *	0.0018

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-13D	11/29/2016		0.2910	*	0.0018
Arsenic, Total	mg/L	MW-13D	01/25/2017		0.3150	*	0.0018
Arsenic, Total	mg/L	MW-13D	05/23/2017		0.3060	*	0.0018
Arsenic, Total	mg/L	MW-13D	08/08/2017		0.2770	*	0.0018
Arsenic, Total	mg/L	MW-13D	05/30/2018		0.2530	*	0.0018
Arsenic, Total	mg/L	MW-13D	09/18/2018		0.2140	*	0.0018
Arsenic, Total	mg/L	MW-13D	05/16/2019		0.2250	*	0.0018
Arsenic, Total	mg/L	MW-13D	11/06/2019		0.2190	*	0.0018
Arsenic, Total	mg/L	MW-13D	05/19/2020		0.2410	*	0.0018
Arsenic, Total	mg/L	MW-13D	11/05/2020		0.2240	*	0.0018
Arsenic, Total	mg/L	MW-14D	04/07/2016		0.0891	*	0.0018
Arsenic, Total	mg/L	MW-14D	05/26/2016		0.0876	*	0.0018
Arsenic, Total	mg/L	MW-14D	08/10/2016		0.0865	*	0.0018
Arsenic, Total	mg/L	MW-14D	09/28/2016		0.0923	*	0.0018
Arsenic, Total	mg/L	MW-14D	11/30/2016		0.1030	*	0.0018
Arsenic, Total	mg/L	MW-14D	01/26/2017		0.1160	*	0.0018
Arsenic, Total	mg/L	MW-14D	05/23/2017		0.1240	*	0.0018
Arsenic, Total	mg/L	MW-14D	08/09/2017		0.1280	*	0.0018
Arsenic, Total	mg/L	MW-14D	05/30/2018		0.1470	*	0.0018
Arsenic, Total	mg/L	MW-14D	09/17/2018		0.1160	*	0.0018
Arsenic, Total	mg/L	MW-14D	05/15/2019		0.1080	*	0.0018
Arsenic, Total	mg/L	MW-14D	11/07/2019		0.1110	*	0.0018
Arsenic, Total	mg/L	MW-14D	05/26/2020		0.1310	*	0.0018
Arsenic, Total	mg/L	MW-14D	11/05/2020		0.1050	*	0.0018
Arsenic, Total	mg/L	MW-1D	04/07/2016		0.0103	*	0.0018
Arsenic, Total	mg/L	MW-1D	05/26/2016		0.0120	*	0.0018
Arsenic, Total	mg/L	MW-1D	08/09/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-1D	09/27/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-1D	11/29/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-1D	01/26/2017	ND	0.0100		0.0018

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-1D	05/23/2017		0.0117	*	0.0018
Arsenic, Total	mg/L	MW-1D	08/09/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-1D	05/29/2018	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-1D	09/17/2018		0.0042	*	0.0018
Arsenic, Total	mg/L	MW-1D	05/15/2019		0.0047	*	0.0018
Arsenic, Total	mg/L	MW-1D	11/07/2019		0.0052	*	0.0018
Arsenic, Total	mg/L	MW-1D	05/26/2020		0.0074	*	0.0018
Arsenic, Total	mg/L	MW-1D	11/06/2020		0.0506	*	0.0018
Arsenic, Total	mg/L	MW-2D	04/05/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	05/24/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	08/08/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	09/26/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	11/28/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	01/24/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	05/22/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	08/07/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	05/29/2018	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-2D	09/17/2018		0.0018	*	0.0018
Arsenic, Total	mg/L	MW-2D	05/15/2019		0.0022	*	0.0018
Arsenic, Total	mg/L	MW-2D	11/05/2019		0.0031	*	0.0018
Arsenic, Total	mg/L	MW-2D	05/19/2020		0.0019	*	0.0018
Arsenic, Total	mg/L	MW-2D	11/04/2020		0.0038	*	0.0018
Arsenic, Total	mg/L	MW-3D	04/05/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	05/25/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	08/08/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	09/26/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	11/28/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	01/24/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	05/22/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	08/07/2017	ND	0.0100		0.0018

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-3D	05/29/2018	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-3D	09/17/2018		0.0027	*	0.0018
Arsenic, Total	mg/L	MW-3D	05/15/2019		0.0029	*	0.0018
Arsenic, Total	mg/L	MW-3D	11/06/2019		0.0029	*	0.0018
Arsenic, Total	mg/L	MW-3D	05/18/2020		0.0033	*	0.0018
Arsenic, Total	mg/L	MW-3D	11/03/2020		0.0029	*	0.0018
Arsenic, Total	mg/L	MW-7D	04/06/2016		0.4280	*	0.0018
Arsenic, Total	mg/L	MW-7D	05/25/2016		0.4350	*	0.0018
Arsenic, Total	mg/L	MW-7D	08/09/2016		0.4120	*	0.0018
Arsenic, Total	mg/L	MW-7D	09/27/2016		0.4080	*	0.0018
Arsenic, Total	mg/L	MW-7D	11/29/2016		0.4170	*	0.0018
Arsenic, Total	mg/L	MW-7D	01/25/2017		0.4680	*	0.0018
Arsenic, Total	mg/L	MW-7D	05/23/2017		0.5090	*	0.0018
Arsenic, Total	mg/L	MW-7D	08/08/2017		0.5040	*	0.0018
Arsenic, Total	mg/L	MW-7D	05/30/2018		0.4910	*	0.0018
Arsenic, Total	mg/L	MW-7D	09/18/2018		0.4330	*	0.0018
Arsenic, Total	mg/L	MW-7D	05/15/2019		0.4710	*	0.0018
Arsenic, Total	mg/L	MW-7D	11/06/2019		0.4320	*	0.0018
Arsenic, Total	mg/L	MW-7D	05/27/2020		0.4670	*	0.0018
Arsenic, Total	mg/L	MW-7D	11/17/2020		0.4020	*	0.0018
Arsenic, Total	mg/L	MW-9D	04/06/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	05/25/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	08/08/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	09/27/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	11/29/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	01/25/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	05/23/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	08/08/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	05/30/2018	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9D	09/17/2018		0.0028	*	0.0018

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-9D	05/16/2019		0.0021	*	0.0018
Arsenic, Total	mg/L	MW-9D	11/06/2019		0.0032	*	0.0018
Arsenic, Total	mg/L	MW-9D	05/19/2020		0.0053	*	0.0018
Arsenic, Total	mg/L	MW-9D	11/04/2020		0.0047	*	0.0018
Arsenic, Total	mg/L	MW-9I	04/06/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	05/25/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	08/08/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	09/27/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	11/28/2016	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	01/25/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	05/23/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	08/08/2017	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	05/30/2018	ND	0.0100		0.0018
Arsenic, Total	mg/L	MW-9I	09/17/2018		0.0050	*	0.0018
Arsenic, Total	mg/L	MW-9I	05/16/2019		0.0038	*	0.0018
Arsenic, Total	mg/L	MW-9I	11/06/2019		0.0040	*	0.0018
Arsenic, Total	mg/L	MW-9I	05/19/2020		0.0042	*	0.0018
Arsenic, Total	mg/L	MW-9I	11/04/2020		0.0046	*	0.0018
Barium, Total	mg/L	MW-1D	04/07/2016		0.0472		0.0743
Barium, Total	mg/L	MW-1D	05/26/2016		0.0496		0.0743
Barium, Total	mg/L	MW-1D	08/09/2016		0.0516		0.0743
Barium, Total	mg/L	MW-1D	09/27/2016		0.0498		0.0743
Barium, Total	mg/L	MW-1D	11/29/2016		0.0393		0.0743
Barium, Total	mg/L	MW-1D	01/26/2017		0.0442		0.0743
Barium, Total	mg/L	MW-1D	05/23/2017		0.0484		0.0743
Barium, Total	mg/L	MW-1D	08/09/2017		0.0513		0.0743
Barium, Total	mg/L	MW-1D	05/29/2018		0.0498		0.0743
Barium, Total	mg/L	MW-1D	09/17/2018		0.0517		0.0743
Barium, Total	mg/L	MW-1D	05/15/2019		0.0618		0.0743
Barium, Total	mg/L	MW-1D	11/07/2019		0.0555		0.0743

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-1D	05/26/2020		0.0710		0.0743
Barium, Total	mg/L	MW-1D	11/06/2020		0.1130	*	0.0743
Barium, Total	mg/L	MW-2D	04/05/2016		0.0627		0.0743
Barium, Total	mg/L	MW-2D	05/24/2016		0.0346		0.0743
Barium, Total	mg/L	MW-2D	08/08/2016		0.0338		0.0743
Barium, Total	mg/L	MW-2D	09/26/2016		0.0364		0.0743
Barium, Total	mg/L	MW-2D	11/28/2016		0.0362		0.0743
Barium, Total	mg/L	MW-2D	01/24/2017		0.0301		0.0743
Barium, Total	mg/L	MW-2D	05/22/2017		0.0286		0.0743
Barium, Total	mg/L	MW-2D	08/07/2017		0.0360		0.0743
Barium, Total	mg/L	MW-2D	05/29/2018		0.0582		0.0743
Barium, Total	mg/L	MW-2D	09/17/2018		0.0632		0.0743
Barium, Total	mg/L	MW-2D	05/15/2019		0.0766	*	0.0743
Barium, Total	mg/L	MW-2D	11/05/2019		0.1140	*	0.0743
Barium, Total	mg/L	MW-2D	05/19/2020		0.0653		0.0743
Barium, Total	mg/L	MW-2D	11/04/2020		0.1080	*	0.0743
Fluoride	mg/L	MW-10D	04/06/2016		1.7000	*	0.2464
Fluoride	mg/L	MW-10D	05/25/2016		2.2000	*	0.2464
Fluoride	mg/L	MW-10D	08/09/2016		2.1000	*	0.2464
Fluoride	mg/L	MW-10D	09/27/2016		2.2000	*	0.2464
Fluoride	mg/L	MW-10D	11/29/2016		2.2000	*	0.2464
Fluoride	mg/L	MW-10D	01/25/2017		2.3000	*	0.2464
Fluoride	mg/L	MW-10D	05/23/2017		2.2000	*	0.2464
Fluoride	mg/L	MW-10D	08/08/2017		2.2000	*	0.2464
Fluoride	mg/L	MW-10D	09/20/2017		2.1000	*	0.2464
Fluoride	mg/L	MW-10D	05/30/2018		2.6000	*	0.2464
Fluoride	mg/L	MW-10D	09/18/2018		2.6000	*	0.2464
Fluoride	mg/L	MW-10D	05/16/2019		2.4000	*	0.2464
Fluoride	mg/L	MW-10D	11/05/2019		2.3000	*	0.2464
Fluoride	mg/L	MW-10D	05/19/2020		2.5000	*	0.2464

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-10D	11/05/2020	2.6000 *	0.2464
Fluoride	mg/L	MW-11D	04/07/2016	0.3800 *	0.2464
Fluoride	mg/L	MW-11D	05/26/2016	0.3700 *	0.2464
Fluoride	mg/L	MW-11D	08/10/2016	0.3100 *	0.2464
Fluoride	mg/L	MW-11D	09/28/2016	0.3000 *	0.2464
Fluoride	mg/L	MW-11D	11/30/2016	0.2900 *	0.2464
Fluoride	mg/L	MW-11D	01/26/2017	0.3100 *	0.2464
Fluoride	mg/L	MW-11D	05/24/2017	0.4300 *	0.2464
Fluoride	mg/L	MW-11D	08/09/2017	0.4500 *	0.2464
Fluoride	mg/L	MW-11D	09/20/2017	0.4800 *	0.2464
Fluoride	mg/L	MW-11D	05/29/2018	0.4500 *	0.2464
Fluoride	mg/L	MW-11D	09/14/2018	0.3100 *	0.2464
Fluoride	mg/L	MW-11D	05/14/2019	0.4700 *	0.2464
Fluoride	mg/L	MW-11D	11/07/2019	0.4100 *	0.2464
Fluoride	mg/L	MW-11D	05/27/2020	0.3700 *	0.2464
Fluoride	mg/L	MW-11D	11/05/2020	0.4300 *	0.2464
Fluoride	mg/L	MW-12D	04/06/2016	0.2200 *	0.2464
Fluoride	mg/L	MW-12D	05/25/2016	0.2700 *	0.2464
Fluoride	mg/L	MW-12D	08/09/2016	0.2800 *	0.2464
Fluoride	mg/L	MW-12D	09/27/2016	0.3100 *	0.2464
Fluoride	mg/L	MW-12D	11/29/2016	0.3800 *	0.2464
Fluoride	mg/L	MW-12D	01/25/2017	0.4900 *	0.2464
Fluoride	mg/L	MW-12D	05/23/2017	0.5000 *	0.2464
Fluoride	mg/L	MW-12D	08/08/2017	0.5300 *	0.2464
Fluoride	mg/L	MW-12D	09/20/2017	0.4400 *	0.2464
Fluoride	mg/L	MW-12D	05/30/2018	1.1000 *	0.2464
Fluoride	mg/L	MW-12D	09/17/2018	0.9500 *	0.2464
Fluoride	mg/L	MW-12D	05/16/2019	1.3000 *	0.2464
Fluoride	mg/L	MW-12D	11/06/2019	1.2000 *	0.2464
Fluoride	mg/L	MW-12D	05/18/2020	1.1000 *	0.2464

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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-12D	11/05/2020		0.9700	*	0.2464
Fluoride	mg/L	MW-13D	04/06/2016		0.3900	*	0.2464
Fluoride	mg/L	MW-13D	05/25/2016		0.4000	*	0.2464
Fluoride	mg/L	MW-13D	08/09/2016		0.3700	*	0.2464
Fluoride	mg/L	MW-13D	09/27/2016		0.3700	*	0.2464
Fluoride	mg/L	MW-13D	11/29/2016		0.3700	*	0.2464
Fluoride	mg/L	MW-13D	01/25/2017		0.3700	*	0.2464
Fluoride	mg/L	MW-13D	05/23/2017		0.3600	*	0.2464
Fluoride	mg/L	MW-13D	08/08/2017		0.4300	*	0.2464
Fluoride	mg/L	MW-13D	09/20/2017		0.4100	*	0.2464
Fluoride	mg/L	MW-13D	05/30/2018		0.4500	*	0.2464
Fluoride	mg/L	MW-13D	09/18/2018		0.4700	*	0.2464
Fluoride	mg/L	MW-13D	05/16/2019		0.4900	*	0.2464
Fluoride	mg/L	MW-13D	11/06/2019		0.4900	*	0.2464
Fluoride	mg/L	MW-13D	05/19/2020		0.5900	*	0.2464
Fluoride	mg/L	MW-13D	11/05/2020		0.6200	*	0.2464
Fluoride	mg/L	MW-14D	04/07/2016		0.3700	*	0.2464
Fluoride	mg/L	MW-14D	05/26/2016		0.3600	*	0.2464
Fluoride	mg/L	MW-14D	08/10/2016		0.3600	*	0.2464
Fluoride	mg/L	MW-14D	09/28/2016		0.3700	*	0.2464
Fluoride	mg/L	MW-14D	11/30/2016		0.3900	*	0.2464
Fluoride	mg/L	MW-14D	01/26/2017		0.3100	*	0.2464
Fluoride	mg/L	MW-14D	05/23/2017		0.3400	*	0.2464
Fluoride	mg/L	MW-14D	08/09/2017		0.3400	*	0.2464
Fluoride	mg/L	MW-14D	09/20/2017		0.3400	*	0.2464
Fluoride	mg/L	MW-14D	05/30/2018		0.3200	*	0.2464
Fluoride	mg/L	MW-14D	09/17/2018		0.2300	*	0.2464
Fluoride	mg/L	MW-14D	05/15/2019		0.2800	*	0.2464
Fluoride	mg/L	MW-14D	11/07/2019		0.2100	*	0.2464
Fluoride	mg/L	MW-14D	05/26/2020	ND	0.1000		0.2464

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-14D	11/05/2020	0.2600 *	0.2464
Fluoride	mg/L	MW-1D	04/07/2016	0.4300 *	0.2464
Fluoride	mg/L	MW-1D	05/26/2016	0.4700 *	0.2464
Fluoride	mg/L	MW-1D	08/09/2016	0.3800 *	0.2464
Fluoride	mg/L	MW-1D	09/27/2016	0.3700 *	0.2464
Fluoride	mg/L	MW-1D	11/29/2016	0.3900 *	0.2464
Fluoride	mg/L	MW-1D	01/26/2017	0.4100 *	0.2464
Fluoride	mg/L	MW-1D	05/23/2017	0.4200 *	0.2464
Fluoride	mg/L	MW-1D	08/09/2017	0.4100 *	0.2464
Fluoride	mg/L	MW-1D	09/20/2017	0.4200 *	0.2464
Fluoride	mg/L	MW-1D	05/29/2018	0.3700 *	0.2464
Fluoride	mg/L	MW-1D	09/17/2018	0.3700 *	0.2464
Fluoride	mg/L	MW-1D	05/15/2019	0.3400 *	0.2464
Fluoride	mg/L	MW-1D	11/07/2019	0.3100 *	0.2464
Fluoride	mg/L	MW-1D	05/26/2020	0.2600 *	0.2464
Fluoride	mg/L	MW-1D	11/06/2020	0.3300 *	0.2464
Fluoride	mg/L	MW-2D	04/05/2016	2.1000 *	0.2464
Fluoride	mg/L	MW-2D	05/24/2016	2.2000 *	0.2464
Fluoride	mg/L	MW-2D	08/08/2016	2.2000 *	0.2464
Fluoride	mg/L	MW-2D	09/26/2016	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	11/28/2016	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	01/24/2017	2.4000 *	0.2464
Fluoride	mg/L	MW-2D	05/22/2017	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	08/07/2017	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	09/20/2017	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	05/29/2018	2.6000 *	0.2464
Fluoride	mg/L	MW-2D	09/17/2018	2.8000 *	0.2464
Fluoride	mg/L	MW-2D	05/15/2019	1.6000 *	0.2464
Fluoride	mg/L	MW-2D	11/05/2019	1.3000 *	0.2464
Fluoride	mg/L	MW-2D	05/19/2020	1.2000 *	0.2464

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2D	11/04/2020	1.0000 *	0.2464
Fluoride	mg/L	MW-7D	04/06/2016	0.2800 *	0.2464
Fluoride	mg/L	MW-7D	05/25/2016	0.3300 *	0.2464
Fluoride	mg/L	MW-7D	08/09/2016	0.3100 *	0.2464
Fluoride	mg/L	MW-7D	09/27/2016	0.3100 *	0.2464
Fluoride	mg/L	MW-7D	11/29/2016	0.3000 *	0.2464
Fluoride	mg/L	MW-7D	01/25/2017	0.2600 *	0.2464
Fluoride	mg/L	MW-7D	05/23/2017	0.2500 *	0.2464
Fluoride	mg/L	MW-7D	08/08/2017	0.2800 *	0.2464
Fluoride	mg/L	MW-7D	09/20/2017	0.2600 *	0.2464
Fluoride	mg/L	MW-7D	05/30/2018	0.2900 *	0.2464
Fluoride	mg/L	MW-7D	09/18/2018	0.3000 *	0.2464
Fluoride	mg/L	MW-7D	05/15/2019	0.3200 *	0.2464
Fluoride	mg/L	MW-7D	11/06/2019	0.3500 *	0.2464
Fluoride	mg/L	MW-7D	05/27/2020	0.3900 *	0.2464
Fluoride	mg/L	MW-7D	11/17/2020	0.4200 *	0.2464
Fluoride	mg/L	MW-9D	04/06/2016	0.3400 *	0.2464
Fluoride	mg/L	MW-9D	05/25/2016	0.3900 *	0.2464
Fluoride	mg/L	MW-9D	08/08/2016	0.3900 *	0.2464
Fluoride	mg/L	MW-9D	09/27/2016	0.4000 *	0.2464
Fluoride	mg/L	MW-9D	11/29/2016	0.4400 *	0.2464
Fluoride	mg/L	MW-9D	01/25/2017	0.4000 *	0.2464
Fluoride	mg/L	MW-9D	05/23/2017	0.4600 *	0.2464
Fluoride	mg/L	MW-9D	08/08/2017	0.4900 *	0.2464
Fluoride	mg/L	MW-9D	09/20/2017	0.5200 *	0.2464
Fluoride	mg/L	MW-9D	05/30/2018	0.4500 *	0.2464
Fluoride	mg/L	MW-9D	09/17/2018	0.4300 *	0.2464
Fluoride	mg/L	MW-9D	05/16/2019	0.4400 *	0.2464
Fluoride	mg/L	MW-9D	11/06/2019	0.4400 *	0.2464
Fluoride	mg/L	MW-9D	05/19/2020	0.4600 *	0.2464

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
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 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-9D	11/04/2020	0.4200 *	0.2464
Fluoride	mg/L	MW-9I	04/06/2016	0.4400 *	0.2464
Fluoride	mg/L	MW-9I	05/25/2016	0.5300 *	0.2464
Fluoride	mg/L	MW-9I	08/08/2016	0.5500 *	0.2464
Fluoride	mg/L	MW-9I	09/27/2016	0.5800 *	0.2464
Fluoride	mg/L	MW-9I	11/28/2016	0.6100 *	0.2464
Fluoride	mg/L	MW-9I	01/25/2017	0.5300 *	0.2464
Fluoride	mg/L	MW-9I	05/23/2017	0.5700 *	0.2464
Fluoride	mg/L	MW-9I	08/08/2017	0.5800 *	0.2464
Fluoride	mg/L	MW-9I	09/20/2017	0.5900 *	0.2464
Fluoride	mg/L	MW-9I	05/30/2018	0.5300 *	0.2464
Fluoride	mg/L	MW-9I	09/17/2018	0.5800 *	0.2464
Fluoride	mg/L	MW-9I	05/16/2019	0.6800 *	0.2464
Fluoride	mg/L	MW-9I	11/06/2019	0.6900 *	0.2464
Fluoride	mg/L	MW-9I	05/19/2020	0.7300 *	0.2464
Fluoride	mg/L	MW-9I	11/04/2020	0.7800 *	0.2464
Lithium, Total	mg/L	MW-10D	04/06/2016	0.1230 *	0.0200
Lithium, Total	mg/L	MW-10D	05/25/2016	0.1050 *	0.0200
Lithium, Total	mg/L	MW-10D	08/09/2016	0.0963 *	0.0200
Lithium, Total	mg/L	MW-10D	09/27/2016	0.0829 *	0.0200
Lithium, Total	mg/L	MW-10D	11/29/2016	0.0922 *	0.0200
Lithium, Total	mg/L	MW-10D	01/25/2017	0.0920 *	0.0200
Lithium, Total	mg/L	MW-10D	05/23/2017	0.0852 *	0.0200
Lithium, Total	mg/L	MW-10D	08/08/2017	0.0862 *	0.0200
Lithium, Total	mg/L	MW-10D	05/30/2018	0.0633 *	0.0200
Lithium, Total	mg/L	MW-10D	09/18/2018	0.0616 *	0.0200
Lithium, Total	mg/L	MW-10D	05/16/2019	0.0694 *	0.0200
Lithium, Total	mg/L	MW-10D	11/05/2019	0.0616 *	0.0200
Lithium, Total	mg/L	MW-10D	05/19/2020	0.0625 *	0.0200
Lithium, Total	mg/L	MW-10D	11/05/2020	0.0522 *	0.0200

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-11D	04/07/2016	0.1270 *	0.0200
Lithium, Total	mg/L	MW-11D	05/26/2016	0.1220 *	0.0200
Lithium, Total	mg/L	MW-11D	08/10/2016	0.1320 *	0.0200
Lithium, Total	mg/L	MW-11D	09/28/2016	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	11/30/2016	0.1370 *	0.0200
Lithium, Total	mg/L	MW-11D	01/26/2017	0.1330 *	0.0200
Lithium, Total	mg/L	MW-11D	05/24/2017	0.1090 *	0.0200
Lithium, Total	mg/L	MW-11D	08/09/2017	0.1240 *	0.0200
Lithium, Total	mg/L	MW-11D	05/29/2018	0.1220 *	0.0200
Lithium, Total	mg/L	MW-11D	09/14/2018	0.1260 *	0.0200
Lithium, Total	mg/L	MW-11D	05/14/2019	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	11/07/2019	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	05/27/2020	0.1420 *	0.0200
Lithium, Total	mg/L	MW-11D	11/05/2020	0.1340 *	0.0200
Lithium, Total	mg/L	MW-12D	04/06/2016	0.1410 *	0.0200
Lithium, Total	mg/L	MW-12D	05/25/2016	0.1520 *	0.0200
Lithium, Total	mg/L	MW-12D	08/09/2016	0.1400 *	0.0200
Lithium, Total	mg/L	MW-12D	09/27/2016	0.1470 *	0.0200
Lithium, Total	mg/L	MW-12D	11/29/2016	0.1400 *	0.0200
Lithium, Total	mg/L	MW-12D	01/25/2017	0.1660 *	0.0200
Lithium, Total	mg/L	MW-12D	05/23/2017	0.1290 *	0.0200
Lithium, Total	mg/L	MW-12D	08/08/2017	0.1510 *	0.0200
Lithium, Total	mg/L	MW-12D	05/30/2018	0.1180 *	0.0200
Lithium, Total	mg/L	MW-12D	09/17/2018	0.1220 *	0.0200
Lithium, Total	mg/L	MW-12D	05/16/2019	0.1040 *	0.0200
Lithium, Total	mg/L	MW-12D	11/06/2019	0.1040 *	0.0200
Lithium, Total	mg/L	MW-12D	05/18/2020	0.1130 *	0.0200
Lithium, Total	mg/L	MW-12D	11/05/2020	0.1080 *	0.0200
Lithium, Total	mg/L	MW-13D	04/06/2016	0.0876 *	0.0200
Lithium, Total	mg/L	MW-13D	05/25/2016	0.0998 *	0.0200

* - Significantly increased over background.
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 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-13D	08/09/2016	0.1120 *	0.0200
Lithium, Total	mg/L	MW-13D	09/27/2016	0.1330 *	0.0200
Lithium, Total	mg/L	MW-13D	11/29/2016	0.1760 *	0.0200
Lithium, Total	mg/L	MW-13D	01/25/2017	0.1900 *	0.0200
Lithium, Total	mg/L	MW-13D	05/23/2017	0.1540 *	0.0200
Lithium, Total	mg/L	MW-13D	08/08/2017	0.1280 *	0.0200
Lithium, Total	mg/L	MW-13D	05/30/2018	0.1120 *	0.0200
Lithium, Total	mg/L	MW-13D	09/18/2018	0.1010 *	0.0200
Lithium, Total	mg/L	MW-13D	05/16/2019	0.1050 *	0.0200
Lithium, Total	mg/L	MW-13D	11/06/2019	0.0850 *	0.0200
Lithium, Total	mg/L	MW-13D	05/19/2020	0.0968 *	0.0200
Lithium, Total	mg/L	MW-13D	11/05/2020	0.0796 *	0.0200
Lithium, Total	mg/L	MW-14D	04/07/2016	0.5260 *	0.0200
Lithium, Total	mg/L	MW-14D	05/26/2016	0.6200 *	0.0200
Lithium, Total	mg/L	MW-14D	08/10/2016	0.3580 *	0.0200
Lithium, Total	mg/L	MW-14D	09/28/2016	0.3550 *	0.0200
Lithium, Total	mg/L	MW-14D	11/30/2016	0.3520 *	0.0200
Lithium, Total	mg/L	MW-14D	01/26/2017	0.5200 *	0.0200
Lithium, Total	mg/L	MW-14D	05/23/2017	0.6620 *	0.0200
Lithium, Total	mg/L	MW-14D	08/09/2017	0.5410 *	0.0200
Lithium, Total	mg/L	MW-14D	05/30/2018	0.6640 *	0.0200
Lithium, Total	mg/L	MW-14D	09/17/2018	0.6100 *	0.0200
Lithium, Total	mg/L	MW-14D	05/15/2019	0.5670 *	0.0200
Lithium, Total	mg/L	MW-14D	11/07/2019	0.4790 *	0.0200
Lithium, Total	mg/L	MW-14D	05/26/2020	0.8200 *	0.0200
Lithium, Total	mg/L	MW-14D	11/05/2020	0.4450 *	0.0200
Lithium, Total	mg/L	MW-1D	04/07/2016	0.0876 *	0.0200
Lithium, Total	mg/L	MW-1D	05/26/2016	0.0860 *	0.0200
Lithium, Total	mg/L	MW-1D	08/09/2016	0.0844 *	0.0200
Lithium, Total	mg/L	MW-1D	09/27/2016	0.0682 *	0.0200

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-1D	11/29/2016		0.0708	*	0.0200
Lithium, Total	mg/L	MW-1D	01/26/2017		0.0607	*	0.0200
Lithium, Total	mg/L	MW-1D	05/23/2017		0.0548	*	0.0200
Lithium, Total	mg/L	MW-1D	08/09/2017		0.0574	*	0.0200
Lithium, Total	mg/L	MW-1D	05/29/2018		0.0385	*	0.0200
Lithium, Total	mg/L	MW-1D	09/17/2018		0.0312	*	0.0200
Lithium, Total	mg/L	MW-1D	05/15/2019		0.0534	*	0.0200
Lithium, Total	mg/L	MW-1D	11/07/2019		0.0293	*	0.0200
Lithium, Total	mg/L	MW-1D	05/26/2020		0.0377	*	0.0200
Lithium, Total	mg/L	MW-1D	11/06/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2D	04/05/2016		0.1080	*	0.0200
Lithium, Total	mg/L	MW-2D	05/24/2016		0.1050	*	0.0200
Lithium, Total	mg/L	MW-2D	08/08/2016		0.1030	*	0.0200
Lithium, Total	mg/L	MW-2D	09/26/2016		0.0778	*	0.0200
Lithium, Total	mg/L	MW-2D	11/28/2016		0.0912	*	0.0200
Lithium, Total	mg/L	MW-2D	01/24/2017		0.0902	*	0.0200
Lithium, Total	mg/L	MW-2D	05/22/2017		0.0733	*	0.0200
Lithium, Total	mg/L	MW-2D	08/07/2017		0.0878	*	0.0200
Lithium, Total	mg/L	MW-2D	05/29/2018		0.0367	*	0.0200
Lithium, Total	mg/L	MW-2D	09/17/2018		0.0321	*	0.0200
Lithium, Total	mg/L	MW-2D	05/15/2019		0.0452	*	0.0200
Lithium, Total	mg/L	MW-2D	11/05/2019		0.0650	*	0.0200
Lithium, Total	mg/L	MW-2D	05/19/2020		0.0428	*	0.0200
Lithium, Total	mg/L	MW-2D	11/04/2020		0.0554	*	0.0200
Lithium, Total	mg/L	MW-7D	04/06/2016		0.1500	*	0.0200
Lithium, Total	mg/L	MW-7D	05/25/2016		0.1320	*	0.0200
Lithium, Total	mg/L	MW-7D	08/09/2016		0.1200	*	0.0200
Lithium, Total	mg/L	MW-7D	09/27/2016		0.1070	*	0.0200
Lithium, Total	mg/L	MW-7D	11/29/2016		0.1270	*	0.0200
Lithium, Total	mg/L	MW-7D	01/25/2017		0.1500	*	0.0200

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-7D	05/23/2017	0.1360 *	0.0200
Lithium, Total	mg/L	MW-7D	08/08/2017	0.1520 *	0.0200
Lithium, Total	mg/L	MW-7D	05/30/2018	0.1200 *	0.0200
Lithium, Total	mg/L	MW-7D	09/18/2018	0.1100 *	0.0200
Lithium, Total	mg/L	MW-7D	05/15/2019	0.1250 *	0.0200
Lithium, Total	mg/L	MW-7D	11/06/2019	0.0955 *	0.0200
Lithium, Total	mg/L	MW-7D	05/27/2020	0.1040 *	0.0200
Lithium, Total	mg/L	MW-7D	11/17/2020	0.0917 *	0.0200
Lithium, Total	mg/L	MW-9D	04/06/2016	0.1460 *	0.0200
Lithium, Total	mg/L	MW-9D	05/25/2016	0.1340 *	0.0200
Lithium, Total	mg/L	MW-9D	08/08/2016	0.1230 *	0.0200
Lithium, Total	mg/L	MW-9D	09/27/2016	0.1020 *	0.0200
Lithium, Total	mg/L	MW-9D	11/29/2016	0.1190 *	0.0200
Lithium, Total	mg/L	MW-9D	01/25/2017	0.1090 *	0.0200
Lithium, Total	mg/L	MW-9D	05/23/2017	0.0719 *	0.0200
Lithium, Total	mg/L	MW-9D	08/08/2017	0.0659 *	0.0200
Lithium, Total	mg/L	MW-9D	05/30/2018	0.0482 *	0.0200
Lithium, Total	mg/L	MW-9D	09/17/2018	0.0435 *	0.0200
Lithium, Total	mg/L	MW-9D	05/16/2019	0.0444 *	0.0200
Lithium, Total	mg/L	MW-9D	11/06/2019	0.0336 *	0.0200
Lithium, Total	mg/L	MW-9D	05/19/2020	0.0321 *	0.0200
Lithium, Total	mg/L	MW-9D	11/04/2020	0.0252 *	0.0200
Lithium, Total	mg/L	MW-9I	04/06/2016	0.1040 *	0.0200
Lithium, Total	mg/L	MW-9I	05/25/2016	0.0796 *	0.0200
Lithium, Total	mg/L	MW-9I	08/08/2016	0.0686 *	0.0200
Lithium, Total	mg/L	MW-9I	09/27/2016	0.0583 *	0.0200
Lithium, Total	mg/L	MW-9I	11/28/2016	0.0623 *	0.0200
Lithium, Total	mg/L	MW-9I	01/25/2017	0.0596 *	0.0200
Lithium, Total	mg/L	MW-9I	05/23/2017	0.0515 *	0.0200
Lithium, Total	mg/L	MW-9I	08/08/2017	0.0563 *	0.0200

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-9I	05/30/2018		0.0354	*	0.0200
Lithium, Total	mg/L	MW-9I	09/17/2018		0.0370	*	0.0200
Lithium, Total	mg/L	MW-9I	05/16/2019		0.0384	*	0.0200
Lithium, Total	mg/L	MW-9I	11/06/2019		0.0302	*	0.0200
Lithium, Total	mg/L	MW-9I	05/19/2020		0.0306	*	0.0200
Lithium, Total	mg/L	MW-9I	11/04/2020		0.0233	*	0.0200
Molybdenum, Total	mg/L	MW-10D	04/06/2016		0.2640	*	0.0100
Molybdenum, Total	mg/L	MW-10D	05/25/2016		0.2880	*	0.0100
Molybdenum, Total	mg/L	MW-10D	08/09/2016		0.2900	*	0.0100
Molybdenum, Total	mg/L	MW-10D	09/27/2016		0.2590	*	0.0100
Molybdenum, Total	mg/L	MW-10D	11/29/2016		0.2740	*	0.0100
Molybdenum, Total	mg/L	MW-10D	01/25/2017		0.2510	*	0.0100
Molybdenum, Total	mg/L	MW-10D	05/23/2017		0.2350	*	0.0100
Molybdenum, Total	mg/L	MW-10D	08/08/2017		0.2200	*	0.0100
Molybdenum, Total	mg/L	MW-10D	05/30/2018		0.1680	*	0.0100
Molybdenum, Total	mg/L	MW-10D	09/18/2018		0.1410	*	0.0100
Molybdenum, Total	mg/L	MW-10D	05/16/2019		0.0990	*	0.0100
Molybdenum, Total	mg/L	MW-10D	11/05/2019		0.0765	*	0.0100
Molybdenum, Total	mg/L	MW-10D	05/19/2020		0.0728	*	0.0100
Molybdenum, Total	mg/L	MW-10D	11/05/2020		0.0886	*	0.0100
Molybdenum, Total	mg/L	MW-12D	04/06/2016		0.2860	*	0.0100
Molybdenum, Total	mg/L	MW-12D	05/25/2016		0.2570	*	0.0100
Molybdenum, Total	mg/L	MW-12D	08/09/2016		0.2700	*	0.0100
Molybdenum, Total	mg/L	MW-12D	09/27/2016		0.2740	*	0.0100
Molybdenum, Total	mg/L	MW-12D	11/29/2016		0.2490	*	0.0100
Molybdenum, Total	mg/L	MW-12D	01/25/2017		0.2540	*	0.0100
Molybdenum, Total	mg/L	MW-12D	05/23/2017		0.2140	*	0.0100
Molybdenum, Total	mg/L	MW-12D	08/08/2017		0.2320	*	0.0100
Molybdenum, Total	mg/L	MW-12D	05/30/2018		0.2320	*	0.0100
Molybdenum, Total	mg/L	MW-12D	09/17/2018		0.2390	*	0.0100

* - Significantly increased over background.
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Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-12D	05/16/2019		0.2190	*	0.0100
Molybdenum, Total	mg/L	MW-12D	11/06/2019		0.2180	*	0.0100
Molybdenum, Total	mg/L	MW-12D	05/18/2020		0.2270	*	0.0100
Molybdenum, Total	mg/L	MW-12D	11/05/2020		0.2000	*	0.0100
Molybdenum, Total	mg/L	MW-13D	04/06/2016		0.6460	*	0.0100
Molybdenum, Total	mg/L	MW-13D	05/25/2016		0.5750	*	0.0100
Molybdenum, Total	mg/L	MW-13D	08/09/2016		0.6710	*	0.0100
Molybdenum, Total	mg/L	MW-13D	09/27/2016		0.6470	*	0.0100
Molybdenum, Total	mg/L	MW-13D	11/29/2016		0.6950	*	0.0100
Molybdenum, Total	mg/L	MW-13D	01/25/2017		0.7040	*	0.0100
Molybdenum, Total	mg/L	MW-13D	05/23/2017		0.6670	*	0.0100
Molybdenum, Total	mg/L	MW-13D	08/08/2017		0.6510	*	0.0100
Molybdenum, Total	mg/L	MW-13D	05/30/2018		0.9220	*	0.0100
Molybdenum, Total	mg/L	MW-13D	09/18/2018		0.8570	*	0.0100
Molybdenum, Total	mg/L	MW-13D	05/16/2019		1.0900	*	0.0100
Molybdenum, Total	mg/L	MW-13D	11/06/2019		0.8800	*	0.0100
Molybdenum, Total	mg/L	MW-13D	05/19/2020		0.8810	*	0.0100
Molybdenum, Total	mg/L	MW-13D	11/05/2020		0.8590	*	0.0100
Molybdenum, Total	mg/L	MW-14D	04/07/2016		0.2000	*	0.0100
Molybdenum, Total	mg/L	MW-14D	05/26/2016		0.1870	*	0.0100
Molybdenum, Total	mg/L	MW-14D	08/10/2016		0.2540	*	0.0100
Molybdenum, Total	mg/L	MW-14D	09/28/2016		0.2420	*	0.0100
Molybdenum, Total	mg/L	MW-14D	11/30/2016		0.2450	*	0.0100
Molybdenum, Total	mg/L	MW-14D	01/26/2017		0.2190	*	0.0100
Molybdenum, Total	mg/L	MW-14D	05/23/2017		0.2240	*	0.0100
Molybdenum, Total	mg/L	MW-14D	08/09/2017		0.2000	*	0.0100
Molybdenum, Total	mg/L	MW-14D	05/30/2018		0.1850	*	0.0100
Molybdenum, Total	mg/L	MW-14D	09/17/2018		0.1850	*	0.0100
Molybdenum, Total	mg/L	MW-14D	05/15/2019		0.1880	*	0.0100
Molybdenum, Total	mg/L	MW-14D	11/07/2019		0.2670	*	0.0100

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-14D	05/26/2020	0.1870 *	0.0100
Molybdenum, Total	mg/L	MW-14D	11/05/2020	0.2590 *	0.0100
Molybdenum, Total	mg/L	MW-1D	04/07/2016	0.2340 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/26/2016	0.2050 *	0.0100
Molybdenum, Total	mg/L	MW-1D	08/09/2016	0.1590 *	0.0100
Molybdenum, Total	mg/L	MW-1D	09/27/2016	0.1300 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/29/2016	0.1280 *	0.0100
Molybdenum, Total	mg/L	MW-1D	01/26/2017	0.1210 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/23/2017	0.0970 *	0.0100
Molybdenum, Total	mg/L	MW-1D	08/09/2017	0.0762 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/29/2018	0.0635 *	0.0100
Molybdenum, Total	mg/L	MW-1D	09/17/2018	0.0512 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/15/2019	0.0545 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/07/2019	0.0478 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/26/2020	0.0449 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/06/2020	0.0346 *	0.0100
Molybdenum, Total	mg/L	MW-2D	04/05/2016	0.2890 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/24/2016	0.2860 *	0.0100
Molybdenum, Total	mg/L	MW-2D	08/08/2016	0.2730 *	0.0100
Molybdenum, Total	mg/L	MW-2D	09/26/2016	0.2560 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/28/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-2D	01/24/2017	0.2620 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/22/2017	0.2630 *	0.0100
Molybdenum, Total	mg/L	MW-2D	08/07/2017	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/29/2018	0.2500 *	0.0100
Molybdenum, Total	mg/L	MW-2D	09/17/2018	0.1940 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/15/2019	0.1060 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/05/2019	0.0796 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/19/2020	0.0893 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/04/2020	0.0769 *	0.0100

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-3D	04/05/2016		0.1450	*	0.0100
Molybdenum, Total	mg/L	MW-3D	05/25/2016		0.1400	*	0.0100
Molybdenum, Total	mg/L	MW-3D	08/08/2016		0.1150	*	0.0100
Molybdenum, Total	mg/L	MW-3D	09/26/2016		0.1020	*	0.0100
Molybdenum, Total	mg/L	MW-3D	11/28/2016		0.0896	*	0.0100
Molybdenum, Total	mg/L	MW-3D	01/24/2017		0.0666	*	0.0100
Molybdenum, Total	mg/L	MW-3D	05/22/2017		0.0574	*	0.0100
Molybdenum, Total	mg/L	MW-3D	08/07/2017		0.0539	*	0.0100
Molybdenum, Total	mg/L	MW-3D	05/29/2018		0.0224	*	0.0100
Molybdenum, Total	mg/L	MW-3D	09/17/2018		0.0179	*	0.0100
Molybdenum, Total	mg/L	MW-3D	05/15/2019		0.0124	*	0.0100
Molybdenum, Total	mg/L	MW-3D	11/06/2019		0.0119	*	0.0100
Molybdenum, Total	mg/L	MW-3D	05/18/2020		0.0110	*	0.0100
Molybdenum, Total	mg/L	MW-3D	11/03/2020	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-7D	04/06/2016		0.4230	*	0.0100
Molybdenum, Total	mg/L	MW-7D	05/25/2016		0.4450	*	0.0100
Molybdenum, Total	mg/L	MW-7D	08/09/2016		0.4600	*	0.0100
Molybdenum, Total	mg/L	MW-7D	09/27/2016		0.4480	*	0.0100
Molybdenum, Total	mg/L	MW-7D	11/29/2016		0.4880	*	0.0100
Molybdenum, Total	mg/L	MW-7D	01/25/2017		0.4610	*	0.0100
Molybdenum, Total	mg/L	MW-7D	05/23/2017		0.4410	*	0.0100
Molybdenum, Total	mg/L	MW-7D	08/08/2017		0.4550	*	0.0100
Molybdenum, Total	mg/L	MW-7D	05/30/2018		0.5440	*	0.0100
Molybdenum, Total	mg/L	MW-7D	09/18/2018		0.5740	*	0.0100
Molybdenum, Total	mg/L	MW-7D	05/15/2019		0.6160	*	0.0100
Molybdenum, Total	mg/L	MW-7D	11/06/2019		0.6170	*	0.0100
Molybdenum, Total	mg/L	MW-7D	05/27/2020		0.7360	*	0.0100
Molybdenum, Total	mg/L	MW-7D	11/17/2020		0.6970	*	0.0100
Molybdenum, Total	mg/L	MW-9D	04/06/2016		0.1300	*	0.0100
Molybdenum, Total	mg/L	MW-9D	05/25/2016		0.1320	*	0.0100

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-9D	08/08/2016		0.1280	*	0.0100
Molybdenum, Total	mg/L	MW-9D	09/27/2016		0.1220	*	0.0100
Molybdenum, Total	mg/L	MW-9D	11/29/2016		0.1400	*	0.0100
Molybdenum, Total	mg/L	MW-9D	01/25/2017		0.1430	*	0.0100
Molybdenum, Total	mg/L	MW-9D	05/23/2017		0.1240	*	0.0100
Molybdenum, Total	mg/L	MW-9D	08/08/2017		0.0960	*	0.0100
Molybdenum, Total	mg/L	MW-9D	05/30/2018		0.1090	*	0.0100
Molybdenum, Total	mg/L	MW-9D	09/17/2018		0.0855	*	0.0100
Molybdenum, Total	mg/L	MW-9D	05/16/2019		0.0504	*	0.0100
Molybdenum, Total	mg/L	MW-9D	11/06/2019		0.0533	*	0.0100
Molybdenum, Total	mg/L	MW-9D	05/19/2020		0.0555	*	0.0100
Molybdenum, Total	mg/L	MW-9D	11/04/2020		0.0452	*	0.0100
Molybdenum, Total	mg/L	MW-9I	04/06/2016		0.2140	*	0.0100
Molybdenum, Total	mg/L	MW-9I	05/25/2016		0.2180	*	0.0100
Molybdenum, Total	mg/L	MW-9I	08/08/2016		0.2010	*	0.0100
Molybdenum, Total	mg/L	MW-9I	09/27/2016		0.1910	*	0.0100
Molybdenum, Total	mg/L	MW-9I	11/28/2016		0.1890	*	0.0100
Molybdenum, Total	mg/L	MW-9I	01/25/2017		0.1570	*	0.0100
Molybdenum, Total	mg/L	MW-9I	05/23/2017		0.1300	*	0.0100
Molybdenum, Total	mg/L	MW-9I	08/08/2017		0.1150	*	0.0100
Molybdenum, Total	mg/L	MW-9I	05/30/2018		0.1250	*	0.0100
Molybdenum, Total	mg/L	MW-9I	09/17/2018		0.1100	*	0.0100
Molybdenum, Total	mg/L	MW-9I	05/16/2019		0.0968	*	0.0100
Molybdenum, Total	mg/L	MW-9I	11/06/2019		0.0912	*	0.0100
Molybdenum, Total	mg/L	MW-9I	05/19/2020		0.0959	*	0.0100
Molybdenum, Total	mg/L	MW-9I	11/04/2020		0.0892	*	0.0100
Total Radium	pCi/L	MW-1D	04/07/2016		2.0000		2.3707
Total Radium	pCi/L	MW-1D	05/26/2016		1.5200		2.3707
Total Radium	pCi/L	MW-1D	08/09/2016		1.0900		2.3707
Total Radium	pCi/L	MW-1D	09/27/2016		2.4100	*	2.3707

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-1D	11/29/2016		0.9310	2.3707
Total Radium	pCi/L	MW-1D	01/26/2017		1.9400	2.3707
Total Radium	pCi/L	MW-1D	05/23/2017		0.9140	2.3707
Total Radium	pCi/L	MW-1D	08/09/2017		1.5800	2.3707
Total Radium	pCi/L	MW-1D	05/29/2018		2.3000	2.3707
Total Radium	pCi/L	MW-1D	09/17/2018		1.4400	2.3707
Total Radium	pCi/L	MW-1D	05/15/2019		0.9340	2.3707
Total Radium	pCi/L	MW-1D	11/07/2019		1.4100	2.3707
Total Radium	pCi/L	MW-1D	05/26/2020		1.1700	2.3707
Total Radium	pCi/L	MW-1D	11/06/2020		3.3300 *	2.3707
Total Radium	pCi/L	MW-2D	04/05/2016		1.4500	2.3707
Total Radium	pCi/L	MW-2D	05/24/2016		1.5300	2.3707
Total Radium	pCi/L	MW-2D	08/08/2016		1.1600	2.3707
Total Radium	pCi/L	MW-2D	09/26/2016		1.6300	2.3707
Total Radium	pCi/L	MW-2D	11/28/2016		0.7300	2.3707
Total Radium	pCi/L	MW-2D	01/24/2017		1.2900	2.3707
Total Radium	pCi/L	MW-2D	05/22/2017		1.4200	2.3707
Total Radium	pCi/L	MW-2D	08/07/2017		1.3700	2.3707
Total Radium	pCi/L	MW-2D	05/29/2018	ND	1.9000	2.3707
Total Radium	pCi/L	MW-2D	09/17/2018		1.8800	2.3707
Total Radium	pCi/L	MW-2D	05/15/2019		1.8900	2.3707
Total Radium	pCi/L	MW-2D	11/05/2019		3.1500 *	2.3707
Total Radium	pCi/L	MW-2D	05/19/2020		1.8200	2.3707
Total Radium	pCi/L	MW-2D	11/04/2020		3.9600 *	2.3707
Total Radium	pCi/L	MW-9I	04/06/2016		0.7970	2.3707
Total Radium	pCi/L	MW-9I	05/25/2016		1.7100	2.3707
Total Radium	pCi/L	MW-9I	08/08/2016		0.5920	2.3707
Total Radium	pCi/L	MW-9I	09/27/2016		1.6900	2.3707
Total Radium	pCi/L	MW-9I	11/28/2016		1.6500	2.3707
Total Radium	pCi/L	MW-9I	01/25/2017	ND	1.7100	2.3707

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

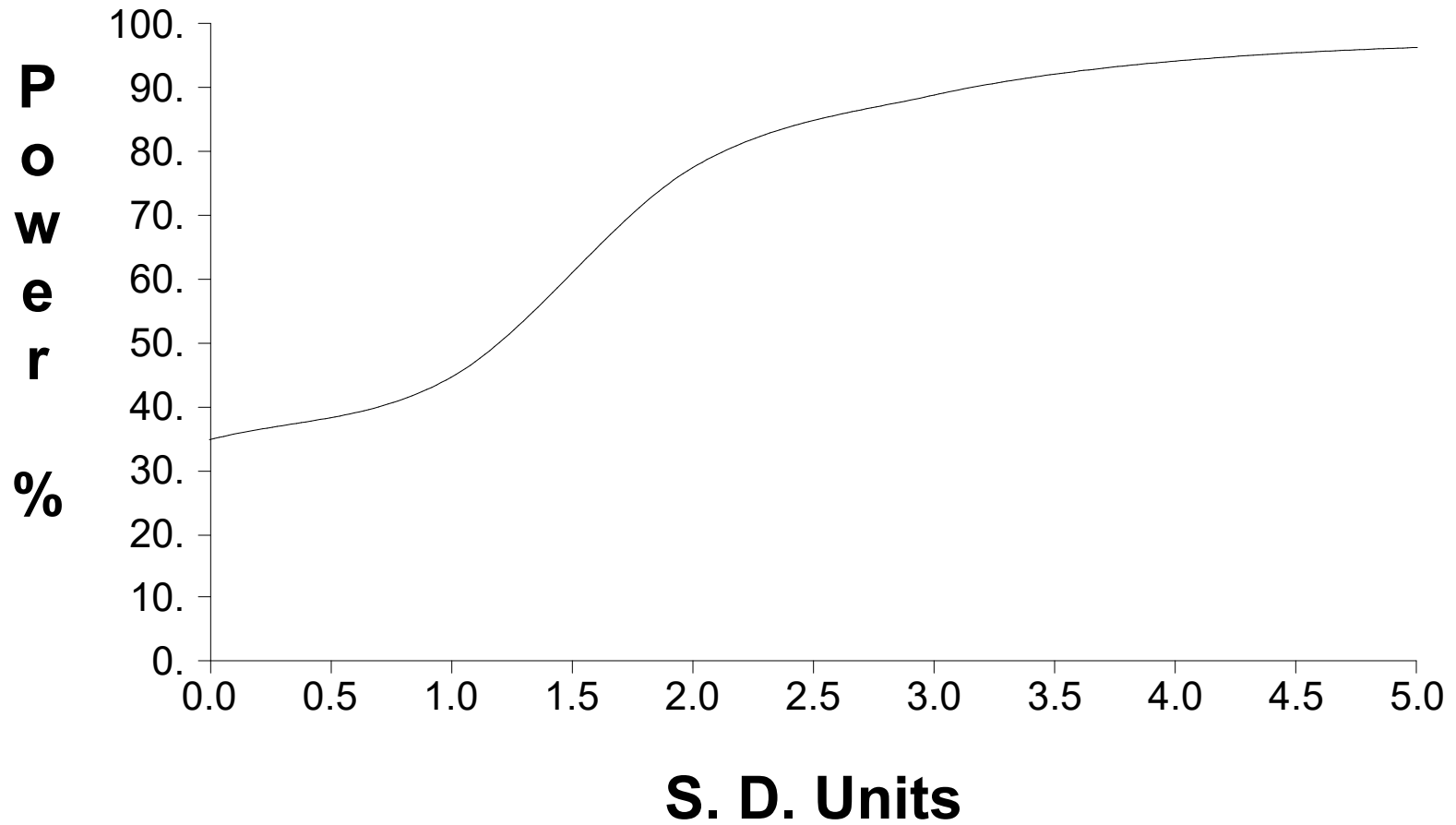
Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-9I	05/23/2017		1.7700	2.3707
Total Radium	pCi/L	MW-9I	08/08/2017		0.8510	2.3707
Total Radium	pCi/L	MW-9I	05/30/2018		2.0400	2.3707
Total Radium	pCi/L	MW-9I	09/17/2018		2.6600 *	2.3707
Total Radium	pCi/L	MW-9I	05/16/2019		1.7300	2.3707
Total Radium	pCi/L	MW-9I	11/06/2019	ND	1.1900	2.3707
Total Radium	pCi/L	MW-9I	05/19/2020		1.2700	2.3707
Total Radium	pCi/L	MW-9I	11/04/2020		2.4200 *	2.3707

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



May 2021

Table 1

Upgradient Data

Constituent	Units	Well	Date	Result	Adjusted	
Antimony, Total	mg/L	MW-151	09/18/2018	ND	0.0010	
Antimony, Total	mg/L	MW-151	11/29/2018	ND	0.0010	
Antimony, Total	mg/L	MW-151	02/04/2019	ND	0.0010	
Antimony, Total	mg/L	MW-151	03/25/2019	ND	0.0010	
Antimony, Total	mg/L	MW-151	05/14/2019	ND	0.0010	
Antimony, Total	mg/L	MW-151	07/24/2019	ND	0.0010	
Antimony, Total	mg/L	MW-151	11/05/2019	ND	0.0010	
Antimony, Total	mg/L	MW-151	01/29/2020	ND	0.0010	
Antimony, Total	mg/L	MW-151	05/27/2020	ND	0.0010	
Antimony, Total	mg/L	MW-151	11/03/2020	ND	0.0010	
Antimony, Total	mg/L	MW-151	05/06/2021	ND	0.0010	
Arsenic, Total	mg/L	MW-151	09/18/2018	ND	0.0010	
Arsenic, Total	mg/L	MW-151	11/29/2018	ND	0.0010	
Arsenic, Total	mg/L	MW-151	02/04/2019	ND	0.0010	
Arsenic, Total	mg/L	MW-151	03/25/2019	ND	0.0010	
Arsenic, Total	mg/L	MW-151	05/14/2019	ND	0.0010	
Arsenic, Total	mg/L	MW-151	07/24/2019	ND	0.0010	
Arsenic, Total	mg/L	MW-151	11/05/2019	ND	0.0010	
Arsenic, Total	mg/L	MW-151	01/29/2020	ND	0.0010	
Arsenic, Total	mg/L	MW-151	05/27/2020	ND	0.0010	
Arsenic, Total	mg/L	MW-151	11/03/2020	ND	0.0010	
Arsenic, Total	mg/L	MW-151	05/06/2021	ND	0.0010	
Barium, Total	mg/L	MW-151	09/18/2018		0.0621	
Barium, Total	mg/L	MW-151	11/29/2018		0.0660	
Barium, Total	mg/L	MW-151	02/04/2019		0.0771	
Barium, Total	mg/L	MW-151	03/25/2019		0.0788	
Barium, Total	mg/L	MW-151	05/14/2019		0.0781	
Barium, Total	mg/L	MW-151	07/24/2019		0.0662	
Barium, Total	mg/L	MW-151	11/05/2019		0.0590	
Barium, Total	mg/L	MW-151	01/29/2020		0.0566	
Barium, Total	mg/L	MW-151	05/27/2020		0.0728	
Barium, Total	mg/L	MW-151	11/03/2020		0.0619	
Barium, Total	mg/L	MW-151	05/06/2021		0.0674	
Beryllium, Total	mg/L	MW-151	09/18/2018	ND	0.0002	
Beryllium, Total	mg/L	MW-151	11/29/2018	ND	0.0002	
Beryllium, Total	mg/L	MW-151	02/04/2019	ND	0.0002	
Beryllium, Total	mg/L	MW-151	03/25/2019	ND	0.0002	
Beryllium, Total	mg/L	MW-151	05/14/2019	ND	0.0002	
Beryllium, Total	mg/L	MW-151	07/24/2019	ND	0.0002	
Beryllium, Total	mg/L	MW-151	11/05/2019	ND	0.0002	
Beryllium, Total	mg/L	MW-151	01/29/2020	ND	0.0002	
Beryllium, Total	mg/L	MW-151	05/27/2020	ND	0.0002	
Beryllium, Total	mg/L	MW-151	11/03/2020	ND	0.0002	
Beryllium, Total	mg/L	MW-151	05/06/2021	ND	0.0002	
Cadmium, Total	mg/L	MW-151	09/18/2018	ND	0.0020	
Cadmium, Total	mg/L	MW-151	11/29/2018	ND	0.0020	
Cadmium, Total	mg/L	MW-151	02/04/2019	ND	0.0020	
Cadmium, Total	mg/L	MW-151	03/25/2019	ND	0.0020	
Cadmium, Total	mg/L	MW-151	05/14/2019	ND	0.0020	
Cadmium, Total	mg/L	MW-151	07/24/2019	ND	0.0020	
Cadmium, Total	mg/L	MW-151	11/05/2019	ND	0.0020	
Cadmium, Total	mg/L	MW-151	01/29/2020	ND	0.0010	0.0020 **
Cadmium, Total	mg/L	MW-151	05/27/2020	ND	0.0020	
Cadmium, Total	mg/L	MW-151	05/06/2021	ND	0.0020	
Chromium, Total	mg/L	MW-151	09/18/2018	ND	0.0100	
Chromium, Total	mg/L	MW-151	11/29/2018	ND	0.0100	
Chromium, Total	mg/L	MW-151	02/04/2019	ND	0.0100	
Chromium, Total	mg/L	MW-151	03/25/2019	ND	0.0100	
Chromium, Total	mg/L	MW-151	05/14/2019	ND	0.0100	
Chromium, Total	mg/L	MW-151	07/24/2019	ND	0.0100	
Chromium, Total	mg/L	MW-151	11/05/2019	ND	0.0100	
Chromium, Total	mg/L	MW-151	01/29/2020	ND	0.0200	0.0100 **
Chromium, Total	mg/L	MW-151	05/27/2020	ND	0.0100	
Chromium, Total	mg/L	MW-151	11/03/2020	ND	0.0100	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Chromium, Total	mg/L	MW-151	05/06/2021	ND	0.0100		
Cobalt, Total	mg/L	MW-151	09/18/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-151	11/29/2018	ND	0.0010		
Cobalt, Total	mg/L	MW-151	02/04/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-151	03/25/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-151	05/14/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-151	07/24/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-151	11/05/2019	ND	0.0010		
Cobalt, Total	mg/L	MW-151	01/29/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-151	05/27/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-151	11/03/2020	ND	0.0010		
Cobalt, Total	mg/L	MW-151	05/06/2021	ND	0.0010		
Fluoride	mg/L	MW-151	09/18/2018		0.1100		
Fluoride	mg/L	MW-151	11/29/2018		0.1300		
Fluoride	mg/L	MW-151	02/04/2019		0.1200		
Fluoride	mg/L	MW-151	03/25/2019		0.1300		
Fluoride	mg/L	MW-151	05/14/2019		0.1100		
Fluoride	mg/L	MW-151	07/24/2019	ND	0.1000		
Fluoride	mg/L	MW-151	11/05/2019	ND	0.1000		
Fluoride	mg/L	MW-151	01/29/2020		0.1200		
Fluoride	mg/L	MW-151	05/27/2020		0.1200		
Fluoride	mg/L	MW-151	11/03/2020	ND	0.1000		
Fluoride	mg/L	MW-151	05/06/2021	ND	0.1000		
Lead, Total	mg/L	MW-151	09/18/2018	ND	0.0100		
Lead, Total	mg/L	MW-151	11/29/2018	ND	0.0100		
Lead, Total	mg/L	MW-151	02/04/2019	ND	0.0100		
Lead, Total	mg/L	MW-151	03/25/2019	ND	0.0100		
Lead, Total	mg/L	MW-151	05/14/2019	ND	0.0100		
Lead, Total	mg/L	MW-151	07/24/2019	ND	0.0100		
Lead, Total	mg/L	MW-151	11/05/2019	ND	0.0100		
Lead, Total	mg/L	MW-151	01/29/2020	ND	0.0100		
Lead, Total	mg/L	MW-151	05/27/2020	ND	0.0100		
Lead, Total	mg/L	MW-151	11/03/2020	ND	0.0100		
Lead, Total	mg/L	MW-151	05/06/2021	ND	0.0100		
Lithium, Total	mg/L	MW-151	09/18/2018	ND	0.0200		
Lithium, Total	mg/L	MW-151	11/29/2018	ND	0.0200		
Lithium, Total	mg/L	MW-151	02/04/2019	ND	0.0200		
Lithium, Total	mg/L	MW-151	03/25/2019	ND	0.0200		
Lithium, Total	mg/L	MW-151	05/14/2019	ND	0.0200		
Lithium, Total	mg/L	MW-151	07/24/2019	ND	0.0200		
Lithium, Total	mg/L	MW-151	11/05/2019	ND	0.0200		
Lithium, Total	mg/L	MW-151	01/29/2020	ND	0.0200		
Lithium, Total	mg/L	MW-151	05/27/2020	ND	0.0200		
Lithium, Total	mg/L	MW-151	11/03/2020	ND	0.0200		
Lithium, Total	mg/L	MW-151	05/06/2021	ND	0.0200		
Mercury	mg/L	MW-151	09/18/2018	ND	0.0020		
Mercury	mg/L	MW-151	11/29/2018	ND	0.0020		
Mercury	mg/L	MW-151	02/04/2019	ND	0.0020		
Mercury	mg/L	MW-151	03/25/2019	ND	0.0020		
Mercury	mg/L	MW-151	05/14/2019	ND	0.0020		
Mercury	mg/L	MW-151	07/24/2019	ND	0.0020		
Mercury	mg/L	MW-151	11/05/2019	ND	0.0020		
Mercury	mg/L	MW-151	01/29/2020	ND	0.0002	0.0020	**
Mercury	mg/L	MW-151	05/27/2020	ND	0.0020		
Mercury	mg/L	MW-151	05/06/2021	ND	0.0020		
Molybdenum, Total	mg/L	MW-151	09/18/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	11/29/2018	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	02/04/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	03/25/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	05/14/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	07/24/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	11/05/2019	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	01/29/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-151	05/27/2020	ND	0.0100		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Molybdenum, Total	mg/L	MW-15I	11/03/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15I	05/06/2021	ND	0.0100		
Selenium, Total	mg/L	MW-15I	09/18/2018		0.0019		
Selenium, Total	mg/L	MW-15I	11/29/2018		0.0019		
Selenium, Total	mg/L	MW-15I	02/04/2019		0.0021		
Selenium, Total	mg/L	MW-15I	03/25/2019		0.0019		
Selenium, Total	mg/L	MW-15I	05/14/2019		0.0015		
Selenium, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15I	01/29/2020		0.0017		
Selenium, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15I	11/03/2020		0.0020		
Selenium, Total	mg/L	MW-15I	05/06/2021		0.0017		
Thallium, Total	mg/L	MW-15I	09/18/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15I	11/29/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15I	02/04/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	03/25/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	05/14/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	07/24/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	11/05/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15I	01/29/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15I	05/27/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15I	05/06/2021	ND	0.0010		
Total Radium	pCi/L	MW-15I	09/18/2018		0.7100		
Total Radium	pCi/L	MW-15I	11/29/2018		0.7930		
Total Radium	pCi/L	MW-15I	02/04/2019		0.8490		
Total Radium	pCi/L	MW-15I	03/25/2019		1.6500		
Total Radium	pCi/L	MW-15I	05/14/2019		1.6300		
Total Radium	pCi/L	MW-15I	07/24/2019		1.6200		
Total Radium	pCi/L	MW-15I	11/05/2019	ND	1.4600		
Total Radium	pCi/L	MW-15I	01/29/2020		0.5700		
Total Radium	pCi/L	MW-15I	05/27/2020		1.0500		
Total Radium	pCi/L	MW-15I	11/03/2020		0.6830		
Total Radium	pCi/L	MW-15I	05/06/2021		0.9160		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-10S	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-11S	05/05/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-12S	11/05/2020		0.0028	***	0.0010
Antimony, Total	mg/L	MW-13S	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	05/05/2021		0.0028	***	0.0010
Antimony, Total	mg/L	MW-2S	05/03/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-3S	05/03/2021		0.0055	***	0.0010
Antimony, Total	mg/L	MW-4S	11/03/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-5S	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-6S	05/05/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-7S	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-8S	05/05/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9S	11/09/2020		0.0073	***	0.0010
Arsenic, Total	mg/L	MW-10S	05/06/2021		0.4130	***	0.0010
Arsenic, Total	mg/L	MW-11S	05/05/2021		0.0024	***	0.0010
Arsenic, Total	mg/L	MW-12S	11/05/2020		0.0469	***	0.0010
Arsenic, Total	mg/L	MW-13S	05/06/2021		0.3210	***	0.0010
Arsenic, Total	mg/L	MW-1S	05/05/2021		0.0246	***	0.0010
Arsenic, Total	mg/L	MW-2S	05/03/2021		0.0069	***	0.0010
Arsenic, Total	mg/L	MW-3S	05/03/2021	ND	0.0010	**	0.0010
Arsenic, Total	mg/L	MW-4S	11/03/2020		0.0033	***	0.0010
Arsenic, Total	mg/L	MW-5S	05/06/2021	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-6S	05/05/2021		0.0119	***	0.0010
Arsenic, Total	mg/L	MW-7S	05/06/2021		0.4190	***	0.0010
Arsenic, Total	mg/L	MW-8S	05/05/2021	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	11/09/2020	ND	0.0010	**	0.0010
Barium, Total	mg/L	MW-10S	05/06/2021		0.0878		0.0904
Barium, Total	mg/L	MW-11S	05/05/2021		0.0751		0.0904
Barium, Total	mg/L	MW-12S	11/05/2020		0.0314		0.0904
Barium, Total	mg/L	MW-13S	05/06/2021		0.0348		0.0904
Barium, Total	mg/L	MW-1S	05/05/2021		0.1250	***	0.0904
Barium, Total	mg/L	MW-2S	05/03/2021		0.0924	***	0.0904
Barium, Total	mg/L	MW-3S	05/03/2021		0.0409		0.0904
Barium, Total	mg/L	MW-4S	11/03/2020		0.1130	*	0.0904
Barium, Total	mg/L	MW-5S	05/06/2021		0.0350		0.0904
Barium, Total	mg/L	MW-6S	05/05/2021		0.1130	***	0.0904
Barium, Total	mg/L	MW-7S	05/06/2021		0.0453		0.0904
Barium, Total	mg/L	MW-8S	05/05/2021		0.0295		0.0904
Barium, Total	mg/L	MW-9S	11/09/2020		0.0520		0.0904
Beryllium, Total	mg/L	MW-10S	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11S	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-12S	11/05/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-13S	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-1S	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-2S	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-3S	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-4S	11/03/2020	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-5S	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-6S	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-7S	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-8S	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9S	11/09/2020	ND	0.0002		0.0002
Cadmium, Total	mg/L	MW-10S	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-11S	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-12S	05/29/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-13S	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1S	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2S	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-3S	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-4S	06/05/2020	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-5S	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-6S	05/05/2021	ND	0.0020		0.0020

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Cadmium, Total	mg/L	MW-7S	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-8S	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-9S	05/29/2020	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-10S	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11S	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-12S	11/05/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-13S	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1S	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2S	05/03/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-3S	05/03/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-5S	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-6S	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-7S	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-8S	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9S	11/09/2020	ND	0.0100		0.0100
Cobalt, Total	mg/L	MW-10S	05/06/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11S	05/05/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-12S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-13S	05/06/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-1S	05/05/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	05/03/2021	ND	0.0010	**	0.0010
Cobalt, Total	mg/L	MW-3S	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	11/03/2020		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-5S	05/06/2021		0.0013	*	0.0010
Cobalt, Total	mg/L	MW-6S	05/05/2021		0.0018	***	0.0010
Cobalt, Total	mg/L	MW-7S	05/06/2021		0.0015	*	0.0010
Cobalt, Total	mg/L	MW-8S	05/05/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9S	11/09/2020	ND	0.0010		0.0010
Fluoride	mg/L	MW-10S	05/06/2021		2.5000	***	0.2521
Fluoride	mg/L	MW-11S	05/05/2021		1.4000	***	0.2521
Fluoride	mg/L	MW-12S	11/05/2020		1.8000	***	0.2521
Fluoride	mg/L	MW-13S	05/06/2021		0.9200	***	0.2521
Fluoride	mg/L	MW-1S	05/05/2021		0.2400	**	0.2521
Fluoride	mg/L	MW-2S	05/03/2021		0.4600	***	0.2521
Fluoride	mg/L	MW-3S	05/03/2021		0.1700		0.2521
Fluoride	mg/L	MW-4S	11/03/2020	ND	0.1000		0.2521
Fluoride	mg/L	MW-5S	05/06/2021		1.7000	***	0.2521
Fluoride	mg/L	MW-6S	05/05/2021		1.3000	***	0.2521
Fluoride	mg/L	MW-7S	05/06/2021		0.5100	***	0.2521
Fluoride	mg/L	MW-8S	05/05/2021	ND	0.1000		0.2521
Fluoride	mg/L	MW-9S	11/09/2020		0.2100		0.2521
Lead, Total	mg/L	MW-10S	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-12S	11/05/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-13S	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-1S	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2S	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3S	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Lead, Total	mg/L	MW-5S	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-6S	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-7S	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-8S	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9S	11/09/2020	ND	0.0100		0.0100
Lithium, Total	mg/L	MW-10S	05/06/2021		0.0453	***	0.0200
Lithium, Total	mg/L	MW-11S	05/05/2021	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-12S	11/05/2020		0.0846	***	0.0200
Lithium, Total	mg/L	MW-13S	05/06/2021		0.0625	***	0.0200
Lithium, Total	mg/L	MW-1S	05/05/2021	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2S	05/03/2021	ND	0.0200	**	0.0200
Lithium, Total	mg/L	MW-3S	05/03/2021	ND	0.0200		0.0200

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-4S	11/03/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-5S	05/06/2021		0.0422	***	0.0200
Lithium, Total	mg/L	MW-6S	05/05/2021		0.0626	***	0.0200
Lithium, Total	mg/L	MW-7S	05/06/2021		0.0817	***	0.0200
Lithium, Total	mg/L	MW-8S	05/05/2021		0.1230	***	0.0200
Lithium, Total	mg/L	MW-9S	11/09/2020		0.0727	***	0.0200
Mercury	mg/L	MW-10S	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-11S	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-12S	05/29/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-13S	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-1S	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-2S	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-3S	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-4S	06/05/2020	ND	0.0020		0.0020
Mercury	mg/L	MW-5S	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-6S	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-7S	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-8S	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-9S	05/29/2020	ND	0.0020		0.0020
Molybdenum, Total	mg/L	MW-10S	05/06/2021		0.0722	***	0.0100
Molybdenum, Total	mg/L	MW-11S	05/05/2021		0.0776	***	0.0100
Molybdenum, Total	mg/L	MW-12S	11/05/2020		0.1960	***	0.0100
Molybdenum, Total	mg/L	MW-13S	05/06/2021		0.6920	***	0.0100
Molybdenum, Total	mg/L	MW-1S	05/05/2021		0.0248	***	0.0100
Molybdenum, Total	mg/L	MW-2S	05/03/2021		0.0350	***	0.0100
Molybdenum, Total	mg/L	MW-3S	05/03/2021		0.0361	***	0.0100
Molybdenum, Total	mg/L	MW-4S	11/03/2020	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-5S	05/06/2021		0.1310	***	0.0100
Molybdenum, Total	mg/L	MW-6S	05/05/2021		0.2160	***	0.0100
Molybdenum, Total	mg/L	MW-7S	05/06/2021		0.6760	***	0.0100
Molybdenum, Total	mg/L	MW-8S	05/05/2021		0.3540	***	0.0100
Molybdenum, Total	mg/L	MW-9S	11/09/2020		0.2010	***	0.0100
Selenium, Total	mg/L	MW-10S	05/06/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-11S	05/05/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-12S	11/05/2020	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-13S	05/06/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-1S	05/05/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-2S	05/03/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-3S	05/03/2021		0.0095	*	0.0039
Selenium, Total	mg/L	MW-4S	11/03/2020		0.0414	***	0.0039
Selenium, Total	mg/L	MW-5S	05/06/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-6S	05/05/2021		0.0039	*	0.0039
Selenium, Total	mg/L	MW-7S	05/06/2021	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-8S	05/05/2021		0.0021		0.0039
Selenium, Total	mg/L	MW-9S	11/09/2020		0.0159	***	0.0039
Thallium, Total	mg/L	MW-10S	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-11S	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-12S	05/29/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-13S	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-1S	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-2S	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-3S	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-4S	06/05/2020	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-5S	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-6S	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-7S	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-8S	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9S	05/29/2020	ND	0.0010		0.0010
Total Radium	pCi/L	MW-10S	05/06/2021	ND	2.0000	**	2.4348
Total Radium	pCi/L	MW-11S	05/05/2021		1.4500		2.4348
Total Radium	pCi/L	MW-12S	11/05/2020		1.7500		2.4348
Total Radium	pCi/L	MW-13S	05/06/2021		1.4100		2.4348

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Total Radium	pCi/L	MW-1S	05/05/2021		3.5400	***	2.4348
Total Radium	pCi/L	MW-2S	05/03/2021		0.8270	**	2.4348
Total Radium	pCi/L	MW-3S	05/03/2021	ND	1.6900		2.4348
Total Radium	pCi/L	MW-4S	11/03/2020		1.3000		2.4348
Total Radium	pCi/L	MW-5S	05/06/2021		1.1800		2.4348
Total Radium	pCi/L	MW-6S	05/05/2021	ND	1.7000		2.4348
Total Radium	pCi/L	MW-7S	05/06/2021		1.5300		2.4348
Total Radium	pCi/L	MW-8S	05/05/2021	ND	2.0100		2.4348
Total Radium	pCi/L	MW-9S	11/09/2020	ND	1.8600		2.4348

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	11	0.000	39	187	0.209
Arsenic, Total	0	11	0.000	116	187	0.620
Barium, Total	11	11	1.000	187	187	1.000
Beryllium, Total	0	11	0.000	1	174	0.006
Cadmium, Total	0	10	0.000	3	161	0.019
Chromium, Total	0	11	0.000	8	187	0.043
Cobalt, Total	0	11	0.000	14	174	0.080
Fluoride	7	11	0.636	185	200	0.925
Lead, Total	0	11	0.000	2	174	0.011
Lithium, Total	0	11	0.000	149	187	0.797
Mercury	0	10	0.000	0	161	0.000
Molybdenum, Total	0	11	0.000	174	187	0.930
Selenium, Total	8	11	0.727	34	187	0.182
Thallium, Total	0	10	0.000	0	161	0.000
Total Radium	10	11	0.909	151	185	0.816

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form
Antimony, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Arsenic, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Barium, Total	11	11	1.000	0.418	0.229					2.326	normal
Beryllium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Cadmium, Total	0	10	0.000	3.262	3.262					2.326	non-norm
Chromium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Cobalt, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Fluoride	7	11	0.636	1.580	1.611					2.326	normal
Lead, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Lithium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Mercury	0	10	0.000	3.262	3.262					2.326	non-norm
Molybdenum, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Selenium, Total	8	11	0.727	1.839	2.346					2.326	normal
Thallium, Total	0	10	0.000	3.262	3.262					2.326	non-norm
Total Radium	10	11	0.909	1.586	0.959					2.326	normal

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Model Type
nonpar
nonpar
normal
nonpar
nonpar
nonpar
nonpar
normal
nonpar
nonpar
nonpar
nonpar
normal
nonpar
normal

* - Distribution override for that constituent.
Fit to distribution is confirmed if $G \leq$ critical value.
Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type	Conf	
Antimony, Total	mg/L	0	11					0.0010	nonpar	***	0.87
Arsenic, Total	mg/L	0	11					0.0010	nonpar	***	0.87
Barium, Total	mg/L	11	11	0.0678	0.0078	0.0100	2.8863	0.0904	normal		
Beryllium, Total	mg/L	0	11					0.0002	nonpar	***	0.87
Cadmium, Total	mg/L	0	10					0.0020	nonpar	***	0.86
Chromium, Total	mg/L	0	11					0.0100	nonpar	***	0.87
Cobalt, Total	mg/L	0	11					0.0010	nonpar	***	0.87
Fluoride	mg/L	7	11	0.0764	0.0609	0.0100	2.8863	0.2521	normal		
Lead, Total	mg/L	0	11					0.0100	nonpar	***	0.87
Lithium, Total	mg/L	0	11					0.0200	nonpar	***	0.87
Mercury	mg/L	0	10					0.0020	nonpar	***	0.86
Molybdenum, Total	mg/L	0	11					0.0100	nonpar	***	0.87
Selenium, Total	mg/L	8	11	0.0013	0.0009	0.0100	2.8863	0.0039	normal		
Thallium, Total	mg/L	0	10					0.0010	nonpar	***	0.86
Total Radium	pCi/L	10	11	0.9519	0.5138	0.0100	2.8863	2.4348	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.
 Date Range = Dates of the first and last measurements included in background at each well.
 Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-12S	04/06/2016		0.0060	*	0.0010
Antimony, Total	mg/L	MW-12S	05/25/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	08/09/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	09/27/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	11/29/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	01/25/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	05/23/2017		0.0077	*	0.0010
Antimony, Total	mg/L	MW-12S	08/08/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	05/30/2018	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-12S	09/17/2018		0.0037	*	0.0010
Antimony, Total	mg/L	MW-12S	05/16/2019		0.0044	*	0.0010
Antimony, Total	mg/L	MW-12S	05/29/2020		0.0021	*	0.0010
Antimony, Total	mg/L	MW-12S	11/05/2020		0.0028	*	0.0010
Antimony, Total	mg/L	MW-1S	04/07/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/26/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	08/09/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	09/27/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	11/29/2016	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	01/26/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/23/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	08/09/2017	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	05/29/2018	ND	0.0060		0.0010
Antimony, Total	mg/L	MW-1S	09/17/2018		0.0013	*	0.0010
Antimony, Total	mg/L	MW-1S	05/15/2019	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	11/07/2019		0.0063	*	0.0010
Antimony, Total	mg/L	MW-1S	05/26/2020	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1S	11/06/2020		0.0034	*	0.0010
Antimony, Total	mg/L	MW-1S	05/05/2021		0.0028	*	0.0010
Antimony, Total	mg/L	MW-3S	04/05/2016		0.0095	*	0.0010
Antimony, Total	mg/L	MW-3S	05/25/2016		0.0085	*	0.0010
Antimony, Total	mg/L	MW-3S	08/08/2016		0.0089	*	0.0010
Antimony, Total	mg/L	MW-3S	09/26/2016		0.0100	*	0.0010
Antimony, Total	mg/L	MW-3S	11/28/2016		0.0085	*	0.0010
Antimony, Total	mg/L	MW-3S	01/24/2017		0.0064	*	0.0010
Antimony, Total	mg/L	MW-3S	05/22/2017		0.0096	*	0.0010
Antimony, Total	mg/L	MW-3S	08/07/2017		0.0073	*	0.0010
Antimony, Total	mg/L	MW-3S	05/29/2018		0.0089	*	0.0010
Antimony, Total	mg/L	MW-3S	09/17/2018		0.0091	*	0.0010
Antimony, Total	mg/L	MW-3S	05/14/2019		0.0073	*	0.0010
Antimony, Total	mg/L	MW-3S	11/05/2019		0.0087	*	0.0010
Antimony, Total	mg/L	MW-3S	05/18/2020		0.0071	*	0.0010
Antimony, Total	mg/L	MW-3S	11/03/2020		0.0077	*	0.0010
Antimony, Total	mg/L	MW-3S	05/03/2021		0.0055	*	0.0010
Antimony, Total	mg/L	MW-9S	04/06/2016		0.0149	*	0.0010
Antimony, Total	mg/L	MW-9S	05/25/2016		0.0144	*	0.0010
Antimony, Total	mg/L	MW-9S	08/08/2016		0.0130	*	0.0010
Antimony, Total	mg/L	MW-9S	09/27/2016		0.0141	*	0.0010
Antimony, Total	mg/L	MW-9S	11/28/2016		0.0119	*	0.0010
Antimony, Total	mg/L	MW-9S	01/25/2017		0.0125	*	0.0010
Antimony, Total	mg/L	MW-9S	05/23/2017		0.0126	*	0.0010
Antimony, Total	mg/L	MW-9S	08/08/2017		0.0080	*	0.0010
Antimony, Total	mg/L	MW-9S	05/30/2018		0.0115	*	0.0010
Antimony, Total	mg/L	MW-9S	09/17/2018		0.0115	*	0.0010
Antimony, Total	mg/L	MW-9S	05/16/2019		0.0092	*	0.0010
Antimony, Total	mg/L	MW-9S	05/29/2020		0.0088	*	0.0010
Antimony, Total	mg/L	MW-9S	11/09/2020		0.0073	*	0.0010
Arsenic, Total	mg/L	MW-10S	04/06/2016		0.4550	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/25/2016		0.4400	*	0.0010
Arsenic, Total	mg/L	MW-10S	08/09/2016		0.4840	*	0.0010
Arsenic, Total	mg/L	MW-10S	09/27/2016		0.4920	*	0.0010
Arsenic, Total	mg/L	MW-10S	11/29/2016		0.5450	*	0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-10S	01/25/2017		0.5070	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/23/2017		0.4400	*	0.0010
Arsenic, Total	mg/L	MW-10S	08/08/2017		0.4940	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/30/2018		0.4440	*	0.0010
Arsenic, Total	mg/L	MW-10S	09/18/2018		0.3430	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/16/2019		0.3490	*	0.0010
Arsenic, Total	mg/L	MW-10S	11/05/2019		0.3850	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/19/2020		0.3580	*	0.0010
Arsenic, Total	mg/L	MW-10S	11/05/2020		0.3490	*	0.0010
Arsenic, Total	mg/L	MW-10S	05/06/2021		0.4130	*	0.0010
Arsenic, Total	mg/L	MW-11S	04/07/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	05/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	08/10/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	09/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	11/30/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	01/26/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	05/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	08/09/2017		0.0121	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-11S	09/14/2018		0.0029	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/15/2019		0.0031	*	0.0010
Arsenic, Total	mg/L	MW-11S	11/07/2019		0.0025	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/27/2020		0.0138	*	0.0010
Arsenic, Total	mg/L	MW-11S	11/05/2020		0.0026	*	0.0010
Arsenic, Total	mg/L	MW-11S	05/05/2021		0.0024	*	0.0010
Arsenic, Total	mg/L	MW-12S	04/06/2016		0.0156	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/25/2016		0.0147	*	0.0010
Arsenic, Total	mg/L	MW-12S	08/09/2016		0.0155	*	0.0010
Arsenic, Total	mg/L	MW-12S	09/27/2016		0.0156	*	0.0010
Arsenic, Total	mg/L	MW-12S	11/29/2016		0.0144	*	0.0010
Arsenic, Total	mg/L	MW-12S	01/25/2017		0.0181	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/23/2017		0.0194	*	0.0010
Arsenic, Total	mg/L	MW-12S	08/08/2017		0.0162	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/30/2018		0.0435	*	0.0010
Arsenic, Total	mg/L	MW-12S	09/17/2018		0.0382	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/16/2019		0.0300	*	0.0010
Arsenic, Total	mg/L	MW-12S	05/29/2020		0.0647	*	0.0010
Arsenic, Total	mg/L	MW-12S	11/05/2020		0.0469	*	0.0010
Arsenic, Total	mg/L	MW-13S	04/06/2016		0.3650	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/25/2016		0.3690	*	0.0010
Arsenic, Total	mg/L	MW-13S	08/09/2016		0.3760	*	0.0010
Arsenic, Total	mg/L	MW-13S	09/27/2016		0.4160	*	0.0010
Arsenic, Total	mg/L	MW-13S	11/29/2016		0.4260	*	0.0010
Arsenic, Total	mg/L	MW-13S	01/25/2017		0.3970	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/23/2017		0.3860	*	0.0010
Arsenic, Total	mg/L	MW-13S	08/08/2017		0.3710	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/30/2018		0.3750	*	0.0010
Arsenic, Total	mg/L	MW-13S	09/18/2018		0.3200	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/15/2019		0.3240	*	0.0010
Arsenic, Total	mg/L	MW-13S	11/07/2019		0.3520	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/19/2020		0.3110	*	0.0010
Arsenic, Total	mg/L	MW-13S	11/05/2020		0.4330	*	0.0010
Arsenic, Total	mg/L	MW-13S	05/06/2021		0.3210	*	0.0010
Arsenic, Total	mg/L	MW-1S	04/07/2016		0.0494	*	0.0010
Arsenic, Total	mg/L	MW-1S	05/26/2016		0.0228	*	0.0010
Arsenic, Total	mg/L	MW-1S	08/09/2016		0.0341	*	0.0010
Arsenic, Total	mg/L	MW-1S	09/27/2016		0.0106	*	0.0010
Arsenic, Total	mg/L	MW-1S	11/29/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-1S	01/26/2017		0.0358	*	0.0010
Arsenic, Total	mg/L	MW-1S	05/23/2017		0.0233	*	0.0010
Arsenic, Total	mg/L	MW-1S	08/09/2017		0.0145	*	0.0010

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-1S	05/29/2018		0.1680 *		0.0010
Arsenic, Total	mg/L	MW-1S	09/17/2018		0.0336 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/15/2019		0.0135 *		0.0010
Arsenic, Total	mg/L	MW-1S	11/07/2019		0.0506 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/26/2020		0.0124 *		0.0010
Arsenic, Total	mg/L	MW-1S	11/06/2020		0.0212 *		0.0010
Arsenic, Total	mg/L	MW-1S	05/05/2021		0.0246 *		0.0010
Arsenic, Total	mg/L	MW-2S	04/05/2016		0.0265 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/24/2016		0.0220 *		0.0010
Arsenic, Total	mg/L	MW-2S	08/08/2016		0.0273 *		0.0010
Arsenic, Total	mg/L	MW-2S	09/26/2016		0.0224 *		0.0010
Arsenic, Total	mg/L	MW-2S	11/28/2016		0.0217 *		0.0010
Arsenic, Total	mg/L	MW-2S	01/24/2017		0.0173 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/22/2017		0.0270 *		0.0010
Arsenic, Total	mg/L	MW-2S	08/07/2017		0.0198 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/29/2018		0.0184 *		0.0010
Arsenic, Total	mg/L	MW-2S	09/17/2018		0.0146 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/14/2019		0.0125 *		0.0010
Arsenic, Total	mg/L	MW-2S	11/05/2019		0.0146 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/19/2020		0.0090 *		0.0010
Arsenic, Total	mg/L	MW-2S	11/04/2020		0.0164 *		0.0010
Arsenic, Total	mg/L	MW-2S	05/03/2021		0.0069 *		0.0010
Arsenic, Total	mg/L	MW-3S	04/05/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	09/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	11/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	01/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/22/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	08/07/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-3S	09/17/2018		0.0020 *		0.0010
Arsenic, Total	mg/L	MW-3S	05/14/2019		0.0023 *		0.0010
Arsenic, Total	mg/L	MW-3S	11/05/2019		0.0018 *		0.0010
Arsenic, Total	mg/L	MW-3S	05/18/2020		0.0015 *		0.0010
Arsenic, Total	mg/L	MW-3S	11/03/2020		0.0012 *		0.0010
Arsenic, Total	mg/L	MW-3S	05/03/2021	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-4S	04/05/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	09/26/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	11/29/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	01/24/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/22/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	08/07/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	05/29/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-4S	09/14/2018	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-4S	05/14/2019	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-4S	06/05/2020		0.0012 *		0.0010
Arsenic, Total	mg/L	MW-4S	11/03/2020		0.0033 *		0.0010
Arsenic, Total	mg/L	MW-6S	04/06/2016		0.0283 *		0.0010
Arsenic, Total	mg/L	MW-6S	05/25/2016		0.0230 *		0.0010
Arsenic, Total	mg/L	MW-6S	08/09/2016		0.0343 *		0.0010
Arsenic, Total	mg/L	MW-6S	09/27/2016		0.0300 *		0.0010
Arsenic, Total	mg/L	MW-6S	11/29/2016		0.0351 *		0.0010
Arsenic, Total	mg/L	MW-6S	01/25/2017		0.0116 *		0.0010
Arsenic, Total	mg/L	MW-6S	05/23/2017		0.0124 *		0.0010
Arsenic, Total	mg/L	MW-6S	08/08/2017		0.0112 *		0.0010
Arsenic, Total	mg/L	MW-6S	05/30/2018		0.0136 *		0.0010
Arsenic, Total	mg/L	MW-6S	09/18/2018		0.0155 *		0.0010
Arsenic, Total	mg/L	MW-6S	05/14/2019		0.0114 *		0.0010

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	mg/L	MW-6S	05/28/2020		0.0238	*	0.0010
Arsenic, Total	mg/L	MW-6S	11/09/2020		0.0392	*	0.0010
Arsenic, Total	mg/L	MW-6S	05/05/2021		0.0119	*	0.0010
Arsenic, Total	mg/L	MW-7S	04/06/2016		0.3200	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/25/2016		0.3530	*	0.0010
Arsenic, Total	mg/L	MW-7S	08/09/2016		0.3650	*	0.0010
Arsenic, Total	mg/L	MW-7S	09/27/2016		0.3520	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/29/2016		0.3720	*	0.0010
Arsenic, Total	mg/L	MW-7S	01/25/2017		0.3520	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/23/2017		0.3730	*	0.0010
Arsenic, Total	mg/L	MW-7S	08/08/2017		0.3590	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/30/2018		0.3830	*	0.0010
Arsenic, Total	mg/L	MW-7S	09/18/2018		0.3170	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/15/2019		0.3450	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/06/2019		0.4390	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/27/2020		0.3670	*	0.0010
Arsenic, Total	mg/L	MW-7S	11/17/2020		0.4620	*	0.0010
Arsenic, Total	mg/L	MW-7S	05/06/2021		0.4190	*	0.0010
Arsenic, Total	mg/L	MW-9S	04/06/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/25/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	08/08/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	09/27/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	11/28/2016	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	01/25/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/23/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	08/08/2017	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	05/30/2018	ND	0.0100		0.0010
Arsenic, Total	mg/L	MW-9S	09/17/2018	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	05/16/2019	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-9S	05/29/2020		0.0015	*	0.0010
Arsenic, Total	mg/L	MW-9S	11/09/2020	ND	0.0010		0.0010
Barium, Total	mg/L	MW-1S	04/07/2016		0.1000	*	0.0904
Barium, Total	mg/L	MW-1S	05/26/2016		0.0764	*	0.0904
Barium, Total	mg/L	MW-1S	08/09/2016		0.0973	*	0.0904
Barium, Total	mg/L	MW-1S	09/27/2016		0.0678	*	0.0904
Barium, Total	mg/L	MW-1S	11/29/2016		0.0433	*	0.0904
Barium, Total	mg/L	MW-1S	01/26/2017		0.1270	*	0.0904
Barium, Total	mg/L	MW-1S	05/23/2017		0.0725	*	0.0904
Barium, Total	mg/L	MW-1S	08/09/2017		0.0622	*	0.0904
Barium, Total	mg/L	MW-1S	05/29/2018		0.2790	*	0.0904
Barium, Total	mg/L	MW-1S	09/17/2018		0.0958	*	0.0904
Barium, Total	mg/L	MW-1S	05/15/2019		0.0635	*	0.0904
Barium, Total	mg/L	MW-1S	11/07/2019		0.1400	*	0.0904
Barium, Total	mg/L	MW-1S	05/26/2020		0.0698	*	0.0904
Barium, Total	mg/L	MW-1S	11/06/2020		0.1120	*	0.0904
Barium, Total	mg/L	MW-1S	05/05/2021		0.1250	*	0.0904
Barium, Total	mg/L	MW-2S	04/05/2016		0.2050	*	0.0904
Barium, Total	mg/L	MW-2S	05/24/2016		0.1580	*	0.0904
Barium, Total	mg/L	MW-2S	08/08/2016		0.1680	*	0.0904
Barium, Total	mg/L	MW-2S	09/26/2016		0.1800	*	0.0904
Barium, Total	mg/L	MW-2S	11/28/2016		0.1850	*	0.0904
Barium, Total	mg/L	MW-2S	01/24/2017		0.0974	*	0.0904
Barium, Total	mg/L	MW-2S	05/22/2017		0.1380	*	0.0904
Barium, Total	mg/L	MW-2S	08/07/2017		0.1270	*	0.0904
Barium, Total	mg/L	MW-2S	05/29/2018		0.0903	*	0.0904
Barium, Total	mg/L	MW-2S	09/17/2018		0.0860	*	0.0904
Barium, Total	mg/L	MW-2S	05/14/2019		0.1230	*	0.0904
Barium, Total	mg/L	MW-2S	11/05/2019		0.1950	*	0.0904
Barium, Total	mg/L	MW-2S	05/19/2020		0.0861	*	0.0904
Barium, Total	mg/L	MW-2S	11/04/2020		0.1370	*	0.0904
Barium, Total	mg/L	MW-2S	05/03/2021		0.0924	*	0.0904

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	mg/L	MW-4S	04/05/2016		0.1170	*	0.0904
Barium, Total	mg/L	MW-4S	05/25/2016		0.1360	*	0.0904
Barium, Total	mg/L	MW-4S	08/08/2016		0.1400	*	0.0904
Barium, Total	mg/L	MW-4S	09/26/2016		0.1230	*	0.0904
Barium, Total	mg/L	MW-4S	11/29/2016		0.1280	*	0.0904
Barium, Total	mg/L	MW-4S	01/24/2017		0.1190	*	0.0904
Barium, Total	mg/L	MW-4S	05/22/2017		0.0703		0.0904
Barium, Total	mg/L	MW-4S	08/07/2017		0.0938	*	0.0904
Barium, Total	mg/L	MW-4S	05/29/2018		0.0494		0.0904
Barium, Total	mg/L	MW-4S	09/14/2018		0.0930	*	0.0904
Barium, Total	mg/L	MW-4S	05/14/2019		0.0600		0.0904
Barium, Total	mg/L	MW-4S	06/05/2020		0.0860		0.0904
Barium, Total	mg/L	MW-4S	11/03/2020		0.1130	*	0.0904
Barium, Total	mg/L	MW-6S	04/06/2016		0.1500	*	0.0904
Barium, Total	mg/L	MW-6S	05/25/2016		0.1120	*	0.0904
Barium, Total	mg/L	MW-6S	08/09/2016		0.1660	*	0.0904
Barium, Total	mg/L	MW-6S	09/27/2016		0.1600	*	0.0904
Barium, Total	mg/L	MW-6S	11/29/2016		0.1890	*	0.0904
Barium, Total	mg/L	MW-6S	01/25/2017		0.1050	*	0.0904
Barium, Total	mg/L	MW-6S	05/23/2017		0.0805		0.0904
Barium, Total	mg/L	MW-6S	08/08/2017		0.0806		0.0904
Barium, Total	mg/L	MW-6S	05/30/2018		0.1160	*	0.0904
Barium, Total	mg/L	MW-6S	09/18/2018		0.1320	*	0.0904
Barium, Total	mg/L	MW-6S	05/14/2019		0.1030	*	0.0904
Barium, Total	mg/L	MW-6S	05/28/2020		0.1410	*	0.0904
Barium, Total	mg/L	MW-6S	11/09/2020		0.1210	*	0.0904
Barium, Total	mg/L	MW-6S	05/05/2021		0.1130	*	0.0904
Cobalt, Total	mg/L	MW-2S	04/05/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-2S	05/24/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	08/08/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	09/26/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	11/28/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	01/24/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/22/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	08/07/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/29/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-2S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	11/05/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	05/19/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2S	11/04/2020		0.0013	*	0.0010
Cobalt, Total	mg/L	MW-2S	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	04/05/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-4S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	08/08/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	09/26/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	01/24/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/22/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	08/07/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/29/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-4S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	06/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-4S	11/03/2020		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-5S	04/06/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-5S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	08/08/2017	ND	0.0050		0.0010

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, Total	mg/L	MW-5S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-5S	05/14/2019		0.0012	*	0.0010
Cobalt, Total	mg/L	MW-5S	05/18/2020		0.0010	**	0.0010
Cobalt, Total	mg/L	MW-5S	11/05/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-5S	05/06/2021		0.0013	*	0.0010
Cobalt, Total	mg/L	MW-6S	04/06/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-6S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	08/08/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-6S	05/14/2019	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-6S	05/28/2020		0.0024	*	0.0010
Cobalt, Total	mg/L	MW-6S	11/09/2020		0.0016	*	0.0010
Cobalt, Total	mg/L	MW-6S	05/05/2021		0.0018	*	0.0010
Cobalt, Total	mg/L	MW-7S	04/06/2016	ND	0.0100		0.0010
Cobalt, Total	mg/L	MW-7S	05/25/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	08/09/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	09/27/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	11/29/2016	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	01/25/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	05/23/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	08/08/2017	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	05/30/2018	ND	0.0050		0.0010
Cobalt, Total	mg/L	MW-7S	05/15/2019		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-7S	11/06/2019		0.0016	*	0.0010
Cobalt, Total	mg/L	MW-7S	05/27/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-7S	11/17/2020	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-7S	05/06/2021		0.0015	*	0.0010
Fluoride	mg/L	MW-10S	04/06/2016		3.5000	*	0.2521
Fluoride	mg/L	MW-10S	05/25/2016		3.0000	*	0.2521
Fluoride	mg/L	MW-10S	08/09/2016		2.2000	*	0.2521
Fluoride	mg/L	MW-10S	09/27/2016		2.6000	*	0.2521
Fluoride	mg/L	MW-10S	11/29/2016		3.1000	*	0.2521
Fluoride	mg/L	MW-10S	01/25/2017		2.7000	*	0.2521
Fluoride	mg/L	MW-10S	05/23/2017		2.4000	*	0.2521
Fluoride	mg/L	MW-10S	08/08/2017		2.1000	*	0.2521
Fluoride	mg/L	MW-10S	09/20/2017		1.8000	*	0.2521
Fluoride	mg/L	MW-10S	05/30/2018		2.2000	*	0.2521
Fluoride	mg/L	MW-10S	09/18/2018		2.7000	*	0.2521
Fluoride	mg/L	MW-10S	05/16/2019		2.5000	*	0.2521
Fluoride	mg/L	MW-10S	11/05/2019		2.1000	*	0.2521
Fluoride	mg/L	MW-10S	05/19/2020		2.0000	*	0.2521
Fluoride	mg/L	MW-10S	11/05/2020		2.4000	*	0.2521
Fluoride	mg/L	MW-10S	05/06/2021		2.5000	*	0.2521
Fluoride	mg/L	MW-11S	04/07/2016		1.2000	*	0.2521
Fluoride	mg/L	MW-11S	05/26/2016		1.3000	*	0.2521
Fluoride	mg/L	MW-11S	08/10/2016		1.4000	*	0.2521
Fluoride	mg/L	MW-11S	09/28/2016		1.5000	*	0.2521
Fluoride	mg/L	MW-11S	11/30/2016		1.5000	*	0.2521
Fluoride	mg/L	MW-11S	01/26/2017		1.6000	*	0.2521
Fluoride	mg/L	MW-11S	05/24/2017		1.5000	*	0.2521
Fluoride	mg/L	MW-11S	08/09/2017		1.5000	*	0.2521
Fluoride	mg/L	MW-11S	09/20/2017		1.6000	*	0.2521
Fluoride	mg/L	MW-11S	05/29/2018		1.5000	*	0.2521
Fluoride	mg/L	MW-11S	09/14/2018		1.4000	*	0.2521
Fluoride	mg/L	MW-11S	05/15/2019		1.4000	*	0.2521
Fluoride	mg/L	MW-11S	11/07/2019		1.4000	*	0.2521

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-11S	05/27/2020	1.6000 *	0.2521
Fluoride	mg/L	MW-11S	11/05/2020	1.6000 *	0.2521
Fluoride	mg/L	MW-11S	05/05/2021	1.4000 *	0.2521
Fluoride	mg/L	MW-12S	04/06/2016	0.3500 *	0.2521
Fluoride	mg/L	MW-12S	05/25/2016	0.3700 *	0.2521
Fluoride	mg/L	MW-12S	08/09/2016	0.3800 *	0.2521
Fluoride	mg/L	MW-12S	09/27/2016	0.3800 *	0.2521
Fluoride	mg/L	MW-12S	11/29/2016	0.4200 *	0.2521
Fluoride	mg/L	MW-12S	01/25/2017	0.5200 *	0.2521
Fluoride	mg/L	MW-12S	05/23/2017	0.5100 *	0.2521
Fluoride	mg/L	MW-12S	08/08/2017	0.5700 *	0.2521
Fluoride	mg/L	MW-12S	09/20/2017	0.7500 *	0.2521
Fluoride	mg/L	MW-12S	05/30/2018	1.8000 *	0.2521
Fluoride	mg/L	MW-12S	09/17/2018	1.7000 *	0.2521
Fluoride	mg/L	MW-12S	05/16/2019	1.5000 *	0.2521
Fluoride	mg/L	MW-12S	05/29/2020	1.8000 *	0.2521
Fluoride	mg/L	MW-12S	11/05/2020	1.8000 *	0.2521
Fluoride	mg/L	MW-13S	04/06/2016	0.5200 *	0.2521
Fluoride	mg/L	MW-13S	05/25/2016	0.5200 *	0.2521
Fluoride	mg/L	MW-13S	08/09/2016	0.4900 *	0.2521
Fluoride	mg/L	MW-13S	09/27/2016	0.5200 *	0.2521
Fluoride	mg/L	MW-13S	11/29/2016	0.5500 *	0.2521
Fluoride	mg/L	MW-13S	01/25/2017	0.5700 *	0.2521
Fluoride	mg/L	MW-13S	05/23/2017	0.6300 *	0.2521
Fluoride	mg/L	MW-13S	08/08/2017	0.7200 *	0.2521
Fluoride	mg/L	MW-13S	09/20/2017	0.6500 *	0.2521
Fluoride	mg/L	MW-13S	05/30/2018	0.8600 *	0.2521
Fluoride	mg/L	MW-13S	09/18/2018	0.8800 *	0.2521
Fluoride	mg/L	MW-13S	05/15/2019	0.8300 *	0.2521
Fluoride	mg/L	MW-13S	11/07/2019	0.7800 *	0.2521
Fluoride	mg/L	MW-13S	05/19/2020	0.9300 *	0.2521
Fluoride	mg/L	MW-13S	11/05/2020	0.9400 *	0.2521
Fluoride	mg/L	MW-13S	05/06/2021	0.9200 *	0.2521
Fluoride	mg/L	MW-1S	04/07/2016	0.5200 *	0.2521
Fluoride	mg/L	MW-1S	05/26/2016	0.5700 *	0.2521
Fluoride	mg/L	MW-1S	08/09/2016	0.4900 *	0.2521
Fluoride	mg/L	MW-1S	09/27/2016	0.5100 *	0.2521
Fluoride	mg/L	MW-1S	11/29/2016	0.5800 *	0.2521
Fluoride	mg/L	MW-1S	01/26/2017	0.6900 *	0.2521
Fluoride	mg/L	MW-1S	05/23/2017	0.6900 *	0.2521
Fluoride	mg/L	MW-1S	08/09/2017	0.7000 *	0.2521
Fluoride	mg/L	MW-1S	09/20/2017	0.6200 *	0.2521
Fluoride	mg/L	MW-1S	05/29/2018	0.6200 *	0.2521
Fluoride	mg/L	MW-1S	09/17/2018	0.6200 *	0.2521
Fluoride	mg/L	MW-1S	05/15/2019	0.5000 *	0.2521
Fluoride	mg/L	MW-1S	11/07/2019	0.4200 *	0.2521
Fluoride	mg/L	MW-1S	05/26/2020	0.3600 *	0.2521
Fluoride	mg/L	MW-1S	11/06/2020	0.3500 *	0.2521
Fluoride	mg/L	MW-1S	05/05/2021	0.2400 *	0.2521
Fluoride	mg/L	MW-2S	04/05/2016	0.8400 *	0.2521
Fluoride	mg/L	MW-2S	05/24/2016	1.1000 *	0.2521
Fluoride	mg/L	MW-2S	08/08/2016	1.2000 *	0.2521
Fluoride	mg/L	MW-2S	09/26/2016	1.8000 *	0.2521
Fluoride	mg/L	MW-2S	11/28/2016	1.3000 *	0.2521
Fluoride	mg/L	MW-2S	01/24/2017	2.4000 *	0.2521
Fluoride	mg/L	MW-2S	05/22/2017	1.4000 *	0.2521
Fluoride	mg/L	MW-2S	08/07/2017	1.8000 *	0.2521
Fluoride	mg/L	MW-2S	09/20/2017	1.6000 *	0.2521
Fluoride	mg/L	MW-2S	05/29/2018	1.1000 *	0.2521
Fluoride	mg/L	MW-2S	09/17/2018	1.8000 *	0.2521
Fluoride	mg/L	MW-2S	05/14/2019	0.9600 *	0.2521

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2S	11/05/2019	0.7000 *	0.2521
Fluoride	mg/L	MW-2S	05/19/2020	0.5800 *	0.2521
Fluoride	mg/L	MW-2S	11/04/2020	0.2800 *	0.2521
Fluoride	mg/L	MW-2S	05/03/2021	0.4600 *	0.2521
Fluoride	mg/L	MW-5S	04/06/2016	4.0000 *	0.2521
Fluoride	mg/L	MW-5S	05/25/2016	4.0000 *	0.2521
Fluoride	mg/L	MW-5S	08/09/2016	3.5000 *	0.2521
Fluoride	mg/L	MW-5S	09/27/2016	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	11/29/2016	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	01/25/2017	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	05/23/2017	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	08/08/2017	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	09/20/2017	3.4000 *	0.2521
Fluoride	mg/L	MW-5S	05/30/2018	2.6000 *	0.2521
Fluoride	mg/L	MW-5S	09/18/2018	3.0000 *	0.2521
Fluoride	mg/L	MW-5S	05/14/2019	2.5000 *	0.2521
Fluoride	mg/L	MW-5S	05/18/2020	2.4000 *	0.2521
Fluoride	mg/L	MW-5S	11/05/2020	2.3000 *	0.2521
Fluoride	mg/L	MW-5S	05/06/2021	1.7000 *	0.2521
Fluoride	mg/L	MW-6S	04/06/2016	0.9300 *	0.2521
Fluoride	mg/L	MW-6S	05/25/2016	0.9400 *	0.2521
Fluoride	mg/L	MW-6S	08/09/2016	0.7600 *	0.2521
Fluoride	mg/L	MW-6S	09/27/2016	0.8400 *	0.2521
Fluoride	mg/L	MW-6S	11/29/2016	0.9100 *	0.2521
Fluoride	mg/L	MW-6S	01/25/2017	0.7400 *	0.2521
Fluoride	mg/L	MW-6S	05/23/2017	0.8300 *	0.2521
Fluoride	mg/L	MW-6S	08/08/2017	1.1000 *	0.2521
Fluoride	mg/L	MW-6S	09/20/2017	0.9300 *	0.2521
Fluoride	mg/L	MW-6S	05/30/2018	1.0000 *	0.2521
Fluoride	mg/L	MW-6S	09/18/2018	1.2000 *	0.2521
Fluoride	mg/L	MW-6S	05/14/2019	0.5500 *	0.2521
Fluoride	mg/L	MW-6S	05/28/2020	1.0000 *	0.2521
Fluoride	mg/L	MW-6S	11/09/2020	1.4000 *	0.2521
Fluoride	mg/L	MW-6S	05/05/2021	1.3000 *	0.2521
Fluoride	mg/L	MW-7S	04/06/2016	0.3400 *	0.2521
Fluoride	mg/L	MW-7S	05/25/2016	0.3800 *	0.2521
Fluoride	mg/L	MW-7S	08/09/2016	0.3400 *	0.2521
Fluoride	mg/L	MW-7S	09/27/2016	0.3600 *	0.2521
Fluoride	mg/L	MW-7S	11/29/2016	0.3600 *	0.2521
Fluoride	mg/L	MW-7S	01/25/2017	0.3400 *	0.2521
Fluoride	mg/L	MW-7S	05/23/2017	0.3700 *	0.2521
Fluoride	mg/L	MW-7S	08/08/2017	0.4100 *	0.2521
Fluoride	mg/L	MW-7S	09/20/2017	0.4000 *	0.2521
Fluoride	mg/L	MW-7S	05/30/2018	0.4200 *	0.2521
Fluoride	mg/L	MW-7S	09/18/2018	0.4500 *	0.2521
Fluoride	mg/L	MW-7S	05/15/2019	0.5000 *	0.2521
Fluoride	mg/L	MW-7S	11/06/2019	0.4600 *	0.2521
Fluoride	mg/L	MW-7S	05/27/2020	0.5700 *	0.2521
Fluoride	mg/L	MW-7S	11/17/2020	0.5400 *	0.2521
Fluoride	mg/L	MW-7S	05/06/2021	0.5100 *	0.2521
Lithium, Total	mg/L	MW-10S	04/06/2016	0.1060 *	0.0200
Lithium, Total	mg/L	MW-10S	05/25/2016	0.0949 *	0.0200
Lithium, Total	mg/L	MW-10S	08/09/2016	0.0986 *	0.0200
Lithium, Total	mg/L	MW-10S	09/27/2016	0.0793 *	0.0200
Lithium, Total	mg/L	MW-10S	11/29/2016	0.0966 *	0.0200
Lithium, Total	mg/L	MW-10S	01/25/2017	0.0952 *	0.0200
Lithium, Total	mg/L	MW-10S	05/23/2017	0.0720 *	0.0200
Lithium, Total	mg/L	MW-10S	08/08/2017	0.0932 *	0.0200
Lithium, Total	mg/L	MW-10S	05/30/2018	0.0570 *	0.0200
Lithium, Total	mg/L	MW-10S	09/18/2018	0.0592 *	0.0200
Lithium, Total	mg/L	MW-10S	05/16/2019	0.0695 *	0.0200

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	mg/L	MW-10S	11/05/2019		0.0605 *		0.0200
Lithium, Total	mg/L	MW-10S	05/19/2020		0.0758 *		0.0200
Lithium, Total	mg/L	MW-10S	11/05/2020		0.0499 *		0.0200
Lithium, Total	mg/L	MW-10S	05/06/2021		0.0453 *		0.0200
Lithium, Total	mg/L	MW-12S	04/06/2016		0.2150 *		0.0200
Lithium, Total	mg/L	MW-12S	05/25/2016		0.1960 *		0.0200
Lithium, Total	mg/L	MW-12S	08/09/2016		0.1930 *		0.0200
Lithium, Total	mg/L	MW-12S	09/27/2016		0.1760 *		0.0200
Lithium, Total	mg/L	MW-12S	11/29/2016		0.1890 *		0.0200
Lithium, Total	mg/L	MW-12S	01/25/2017		0.1580 *		0.0200
Lithium, Total	mg/L	MW-12S	05/23/2017		0.1550 *		0.0200
Lithium, Total	mg/L	MW-12S	08/08/2017		0.1600 *		0.0200
Lithium, Total	mg/L	MW-12S	05/30/2018		0.1060 *		0.0200
Lithium, Total	mg/L	MW-12S	09/17/2018		0.1160 *		0.0200
Lithium, Total	mg/L	MW-12S	05/16/2019		0.1270 *		0.0200
Lithium, Total	mg/L	MW-12S	05/29/2020		0.0975 *		0.0200
Lithium, Total	mg/L	MW-12S	11/05/2020		0.0846 *		0.0200
Lithium, Total	mg/L	MW-13S	04/06/2016		0.0890 *		0.0200
Lithium, Total	mg/L	MW-13S	05/25/2016		0.1050 *		0.0200
Lithium, Total	mg/L	MW-13S	08/09/2016		0.1160 *		0.0200
Lithium, Total	mg/L	MW-13S	09/27/2016		0.1190 *		0.0200
Lithium, Total	mg/L	MW-13S	11/29/2016		0.1480 *		0.0200
Lithium, Total	mg/L	MW-13S	01/25/2017		0.1430 *		0.0200
Lithium, Total	mg/L	MW-13S	05/23/2017		0.1160 *		0.0200
Lithium, Total	mg/L	MW-13S	08/08/2017		0.1070 *		0.0200
Lithium, Total	mg/L	MW-13S	05/30/2018		0.0914 *		0.0200
Lithium, Total	mg/L	MW-13S	09/18/2018		0.0846 *		0.0200
Lithium, Total	mg/L	MW-13S	05/15/2019		0.0997 *		0.0200
Lithium, Total	mg/L	MW-13S	11/07/2019		0.0751 *		0.0200
Lithium, Total	mg/L	MW-13S	05/19/2020		0.0836 *		0.0200
Lithium, Total	mg/L	MW-13S	11/05/2020		0.0693 *		0.0200
Lithium, Total	mg/L	MW-13S	05/06/2021		0.0625 *		0.0200
Lithium, Total	mg/L	MW-2S	04/05/2016		0.1120 *		0.0200
Lithium, Total	mg/L	MW-2S	05/24/2016		0.0876 *		0.0200
Lithium, Total	mg/L	MW-2S	08/08/2016		0.0879 *		0.0200
Lithium, Total	mg/L	MW-2S	09/26/2016		0.0719 *		0.0200
Lithium, Total	mg/L	MW-2S	11/28/2016		0.0882 *		0.0200
Lithium, Total	mg/L	MW-2S	01/24/2017		0.0726 *		0.0200
Lithium, Total	mg/L	MW-2S	05/22/2017		0.0606 *		0.0200
Lithium, Total	mg/L	MW-2S	08/07/2017		0.0752 *		0.0200
Lithium, Total	mg/L	MW-2S	05/29/2018		0.0257 *		0.0200
Lithium, Total	mg/L	MW-2S	09/17/2018		0.0251 *		0.0200
Lithium, Total	mg/L	MW-2S	05/14/2019	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2S	11/05/2019		0.0261 *		0.0200
Lithium, Total	mg/L	MW-2S	05/19/2020	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-2S	11/04/2020		0.0230 *		0.0200
Lithium, Total	mg/L	MW-2S	05/03/2021	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-5S	04/06/2016		0.0896 *		0.0200
Lithium, Total	mg/L	MW-5S	05/25/2016		0.0783 *		0.0200
Lithium, Total	mg/L	MW-5S	08/09/2016		0.0753 *		0.0200
Lithium, Total	mg/L	MW-5S	09/27/2016		0.0763 *		0.0200
Lithium, Total	mg/L	MW-5S	11/29/2016		0.0946 *		0.0200
Lithium, Total	mg/L	MW-5S	01/25/2017		0.0857 *		0.0200
Lithium, Total	mg/L	MW-5S	05/23/2017		0.0574 *		0.0200
Lithium, Total	mg/L	MW-5S	08/08/2017		0.0639 *		0.0200
Lithium, Total	mg/L	MW-5S	05/30/2018		0.0575 *		0.0200
Lithium, Total	mg/L	MW-5S	09/18/2018		0.0528 *		0.0200
Lithium, Total	mg/L	MW-5S	05/14/2019		0.0599 *		0.0200
Lithium, Total	mg/L	MW-5S	05/18/2020		0.0549 *		0.0200
Lithium, Total	mg/L	MW-5S	11/05/2020		0.0417 *		0.0200
Lithium, Total	mg/L	MW-5S	05/06/2021		0.0422 *		0.0200

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-6S	04/06/2016	0.1120 *	0.0200
Lithium, Total	mg/L	MW-6S	05/25/2016	0.0990 *	0.0200
Lithium, Total	mg/L	MW-6S	08/09/2016	0.1020 *	0.0200
Lithium, Total	mg/L	MW-6S	09/27/2016	0.0891 *	0.0200
Lithium, Total	mg/L	MW-6S	11/29/2016	0.1010 *	0.0200
Lithium, Total	mg/L	MW-6S	01/25/2017	0.1140 *	0.0200
Lithium, Total	mg/L	MW-6S	05/23/2017	0.0990 *	0.0200
Lithium, Total	mg/L	MW-6S	08/08/2017	0.0865 *	0.0200
Lithium, Total	mg/L	MW-6S	05/30/2018	0.0758 *	0.0200
Lithium, Total	mg/L	MW-6S	09/18/2018	0.0584 *	0.0200
Lithium, Total	mg/L	MW-6S	05/14/2019	0.1170 *	0.0200
Lithium, Total	mg/L	MW-6S	05/28/2020	0.0845 *	0.0200
Lithium, Total	mg/L	MW-6S	11/09/2020	0.0619 *	0.0200
Lithium, Total	mg/L	MW-6S	05/05/2021	0.0626 *	0.0200
Lithium, Total	mg/L	MW-7S	04/06/2016	0.1160 *	0.0200
Lithium, Total	mg/L	MW-7S	05/25/2016	0.1100 *	0.0200
Lithium, Total	mg/L	MW-7S	08/09/2016	0.1090 *	0.0200
Lithium, Total	mg/L	MW-7S	09/27/2016	0.1010 *	0.0200
Lithium, Total	mg/L	MW-7S	11/29/2016	0.1280 *	0.0200
Lithium, Total	mg/L	MW-7S	01/25/2017	0.1450 *	0.0200
Lithium, Total	mg/L	MW-7S	05/23/2017	0.1350 *	0.0200
Lithium, Total	mg/L	MW-7S	08/08/2017	0.1310 *	0.0200
Lithium, Total	mg/L	MW-7S	05/30/2018	0.1030 *	0.0200
Lithium, Total	mg/L	MW-7S	09/18/2018	0.0943 *	0.0200
Lithium, Total	mg/L	MW-7S	05/15/2019	0.1060 *	0.0200
Lithium, Total	mg/L	MW-7S	11/06/2019	0.0898 *	0.0200
Lithium, Total	mg/L	MW-7S	05/27/2020	0.0871 *	0.0200
Lithium, Total	mg/L	MW-7S	11/17/2020	0.0868 *	0.0200
Lithium, Total	mg/L	MW-7S	05/06/2021	0.0817 *	0.0200
Lithium, Total	mg/L	MW-8S	04/07/2016	0.1820 *	0.0200
Lithium, Total	mg/L	MW-8S	05/26/2016	0.1350 *	0.0200
Lithium, Total	mg/L	MW-8S	08/09/2016	0.2040 *	0.0200
Lithium, Total	mg/L	MW-8S	09/28/2016	0.1840 *	0.0200
Lithium, Total	mg/L	MW-8S	11/30/2016	0.1840 *	0.0200
Lithium, Total	mg/L	MW-8S	01/26/2017	0.1550 *	0.0200
Lithium, Total	mg/L	MW-8S	05/23/2017	0.0940 *	0.0200
Lithium, Total	mg/L	MW-8S	08/09/2017	0.0738 *	0.0200
Lithium, Total	mg/L	MW-8S	05/29/2018	0.1320 *	0.0200
Lithium, Total	mg/L	MW-8S	09/17/2018	0.1470 *	0.0200
Lithium, Total	mg/L	MW-8S	05/15/2019	0.1240 *	0.0200
Lithium, Total	mg/L	MW-8S	11/07/2019	0.1740 *	0.0200
Lithium, Total	mg/L	MW-8S	05/26/2020	0.1240 *	0.0200
Lithium, Total	mg/L	MW-8S	11/09/2020	0.1880 *	0.0200
Lithium, Total	mg/L	MW-8S	05/05/2021	0.1230 *	0.0200
Lithium, Total	mg/L	MW-9S	04/06/2016	0.1260 *	0.0200
Lithium, Total	mg/L	MW-9S	05/25/2016	0.1100 *	0.0200
Lithium, Total	mg/L	MW-9S	08/08/2016	0.1030 *	0.0200
Lithium, Total	mg/L	MW-9S	09/27/2016	0.0849 *	0.0200
Lithium, Total	mg/L	MW-9S	11/28/2016	0.1160 *	0.0200
Lithium, Total	mg/L	MW-9S	01/25/2017	0.1140 *	0.0200
Lithium, Total	mg/L	MW-9S	05/23/2017	0.0867 *	0.0200
Lithium, Total	mg/L	MW-9S	08/08/2017	0.0906 *	0.0200
Lithium, Total	mg/L	MW-9S	05/30/2018	0.0933 *	0.0200
Lithium, Total	mg/L	MW-9S	09/17/2018	0.0894 *	0.0200
Lithium, Total	mg/L	MW-9S	05/16/2019	0.0703 *	0.0200
Lithium, Total	mg/L	MW-9S	05/29/2020	0.0860 *	0.0200
Lithium, Total	mg/L	MW-9S	11/09/2020	0.0727 *	0.0200
Molybdenum, Total	mg/L	MW-10S	04/06/2016	0.3240 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/25/2016	0.2990 *	0.0100
Molybdenum, Total	mg/L	MW-10S	08/09/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-10S	09/27/2016	0.2470 *	0.0100

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-10S	11/29/2016	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-10S	01/25/2017	0.2000 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/23/2017	0.2190 *	0.0100
Molybdenum, Total	mg/L	MW-10S	08/08/2017	0.1660 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/30/2018	0.1380 *	0.0100
Molybdenum, Total	mg/L	MW-10S	09/18/2018	0.1170 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/16/2019	0.0934 *	0.0100
Molybdenum, Total	mg/L	MW-10S	11/05/2019	0.0934 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/19/2020	0.0827 *	0.0100
Molybdenum, Total	mg/L	MW-10S	11/05/2020	0.0774 *	0.0100
Molybdenum, Total	mg/L	MW-10S	05/06/2021	0.0722 *	0.0100
Molybdenum, Total	mg/L	MW-11S	04/07/2016	0.0773 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/26/2016	0.0815 *	0.0100
Molybdenum, Total	mg/L	MW-11S	08/10/2016	0.0820 *	0.0100
Molybdenum, Total	mg/L	MW-11S	09/28/2016	0.0807 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/30/2016	0.0829 *	0.0100
Molybdenum, Total	mg/L	MW-11S	01/26/2017	0.0834 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/24/2017	0.0787 *	0.0100
Molybdenum, Total	mg/L	MW-11S	08/09/2017	0.0735 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/29/2018	0.0733 *	0.0100
Molybdenum, Total	mg/L	MW-11S	09/14/2018	0.0744 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/15/2019	0.0732 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/07/2019	0.0759 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/27/2020	0.0833 *	0.0100
Molybdenum, Total	mg/L	MW-11S	11/05/2020	0.0806 *	0.0100
Molybdenum, Total	mg/L	MW-11S	05/05/2021	0.0776 *	0.0100
Molybdenum, Total	mg/L	MW-12S	04/06/2016	0.2560 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/25/2016	0.2740 *	0.0100
Molybdenum, Total	mg/L	MW-12S	08/09/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-12S	09/27/2016	0.2650 *	0.0100
Molybdenum, Total	mg/L	MW-12S	11/29/2016	0.2690 *	0.0100
Molybdenum, Total	mg/L	MW-12S	01/25/2017	0.2270 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/23/2017	0.2730 *	0.0100
Molybdenum, Total	mg/L	MW-12S	08/08/2017	0.2830 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/30/2018	0.2870 *	0.0100
Molybdenum, Total	mg/L	MW-12S	09/17/2018	0.2940 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/16/2019	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-12S	05/29/2020	0.1980 *	0.0100
Molybdenum, Total	mg/L	MW-12S	11/05/2020	0.1960 *	0.0100
Molybdenum, Total	mg/L	MW-13S	04/06/2016	0.5770 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/25/2016	0.5630 *	0.0100
Molybdenum, Total	mg/L	MW-13S	08/09/2016	0.5520 *	0.0100
Molybdenum, Total	mg/L	MW-13S	09/27/2016	0.5170 *	0.0100
Molybdenum, Total	mg/L	MW-13S	11/29/2016	0.5170 *	0.0100
Molybdenum, Total	mg/L	MW-13S	01/25/2017	0.4810 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/23/2017	0.5080 *	0.0100
Molybdenum, Total	mg/L	MW-13S	08/08/2017	0.5110 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/30/2018	0.7200 *	0.0100
Molybdenum, Total	mg/L	MW-13S	09/18/2018	0.7700 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/15/2019	0.7820 *	0.0100
Molybdenum, Total	mg/L	MW-13S	11/07/2019	0.8090 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/19/2020	0.7460 *	0.0100
Molybdenum, Total	mg/L	MW-13S	11/05/2020	0.7220 *	0.0100
Molybdenum, Total	mg/L	MW-13S	05/06/2021	0.6920 *	0.0100
Molybdenum, Total	mg/L	MW-1S	04/07/2016	0.4560 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/26/2016	0.3090 *	0.0100
Molybdenum, Total	mg/L	MW-1S	08/09/2016	0.1990 *	0.0100
Molybdenum, Total	mg/L	MW-1S	09/27/2016	0.1670 *	0.0100
Molybdenum, Total	mg/L	MW-1S	11/29/2016	0.1510 *	0.0100
Molybdenum, Total	mg/L	MW-1S	01/26/2017	0.2470 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/23/2017	0.1060 *	0.0100

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-1S	08/09/2017	0.0886 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/29/2018	0.0579 *	0.0100
Molybdenum, Total	mg/L	MW-1S	09/17/2018	0.0518 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/15/2019	0.0505 *	0.0100
Molybdenum, Total	mg/L	MW-1S	11/07/2019	0.0289 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/26/2020	0.0372 *	0.0100
Molybdenum, Total	mg/L	MW-1S	11/06/2020	0.0254 *	0.0100
Molybdenum, Total	mg/L	MW-1S	05/05/2021	0.0248 *	0.0100
Molybdenum, Total	mg/L	MW-2S	04/05/2016	0.4580 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/24/2016	0.3520 *	0.0100
Molybdenum, Total	mg/L	MW-2S	08/08/2016	0.2480 *	0.0100
Molybdenum, Total	mg/L	MW-2S	09/26/2016	0.1790 *	0.0100
Molybdenum, Total	mg/L	MW-2S	11/28/2016	0.1900 *	0.0100
Molybdenum, Total	mg/L	MW-2S	01/24/2017	0.2140 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/22/2017	0.1350 *	0.0100
Molybdenum, Total	mg/L	MW-2S	08/07/2017	0.1410 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/29/2018	0.0783 *	0.0100
Molybdenum, Total	mg/L	MW-2S	09/17/2018	0.0852 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/14/2019	0.0367 *	0.0100
Molybdenum, Total	mg/L	MW-2S	11/05/2019	0.0314 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/19/2020	0.0278 *	0.0100
Molybdenum, Total	mg/L	MW-2S	11/04/2020	0.0360 *	0.0100
Molybdenum, Total	mg/L	MW-2S	05/03/2021	0.0350 *	0.0100
Molybdenum, Total	mg/L	MW-3S	04/05/2016	0.1390 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/25/2016	0.1240 *	0.0100
Molybdenum, Total	mg/L	MW-3S	08/08/2016	0.0976 *	0.0100
Molybdenum, Total	mg/L	MW-3S	09/26/2016	0.0777 *	0.0100
Molybdenum, Total	mg/L	MW-3S	11/28/2016	0.0984 *	0.0100
Molybdenum, Total	mg/L	MW-3S	01/24/2017	0.0889 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/22/2017	0.0639 *	0.0100
Molybdenum, Total	mg/L	MW-3S	08/07/2017	0.0643 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/29/2018	0.0788 *	0.0100
Molybdenum, Total	mg/L	MW-3S	09/17/2018	0.0522 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/14/2019	0.0432 *	0.0100
Molybdenum, Total	mg/L	MW-3S	11/05/2019	0.0416 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/18/2020	0.0492 *	0.0100
Molybdenum, Total	mg/L	MW-3S	11/03/2020	0.0406 *	0.0100
Molybdenum, Total	mg/L	MW-3S	05/03/2021	0.0361 *	0.0100
Molybdenum, Total	mg/L	MW-5S	04/06/2016	0.2510 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/25/2016	0.2660 *	0.0100
Molybdenum, Total	mg/L	MW-5S	08/09/2016	0.2660 *	0.0100
Molybdenum, Total	mg/L	MW-5S	09/27/2016	0.2750 *	0.0100
Molybdenum, Total	mg/L	MW-5S	11/29/2016	0.3210 *	0.0100
Molybdenum, Total	mg/L	MW-5S	01/25/2017	0.3130 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/23/2017	0.3190 *	0.0100
Molybdenum, Total	mg/L	MW-5S	08/08/2017	0.3070 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/30/2018	0.2650 *	0.0100
Molybdenum, Total	mg/L	MW-5S	09/18/2018	0.2540 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/14/2019	0.2310 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/18/2020	0.2180 *	0.0100
Molybdenum, Total	mg/L	MW-5S	11/05/2020	0.1820 *	0.0100
Molybdenum, Total	mg/L	MW-5S	05/06/2021	0.1310 *	0.0100
Molybdenum, Total	mg/L	MW-6S	04/06/2016	0.3090 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/25/2016	0.2610 *	0.0100
Molybdenum, Total	mg/L	MW-6S	08/09/2016	0.2400 *	0.0100
Molybdenum, Total	mg/L	MW-6S	09/27/2016	0.2260 *	0.0100
Molybdenum, Total	mg/L	MW-6S	11/29/2016	0.2430 *	0.0100
Molybdenum, Total	mg/L	MW-6S	01/25/2017	0.1660 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/23/2017	0.1420 *	0.0100
Molybdenum, Total	mg/L	MW-6S	08/08/2017	0.1850 *	0.0100
Molybdenum, Total	mg/L	MW-6S	05/30/2018	0.1500 *	0.0100

* - Significantly increased over background.
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 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-6S	09/18/2018		0.1570	*	0.0100
Molybdenum, Total	mg/L	MW-6S	05/14/2019		0.0656	*	0.0100
Molybdenum, Total	mg/L	MW-6S	05/28/2020		0.1460	*	0.0100
Molybdenum, Total	mg/L	MW-6S	11/09/2020		0.2110	*	0.0100
Molybdenum, Total	mg/L	MW-6S	05/05/2021		0.2160	*	0.0100
Molybdenum, Total	mg/L	MW-7S	04/06/2016		0.4350	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/25/2016		0.4480	*	0.0100
Molybdenum, Total	mg/L	MW-7S	08/09/2016		0.4770	*	0.0100
Molybdenum, Total	mg/L	MW-7S	09/27/2016		0.4680	*	0.0100
Molybdenum, Total	mg/L	MW-7S	11/29/2016		0.4860	*	0.0100
Molybdenum, Total	mg/L	MW-7S	01/25/2017		0.4390	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/23/2017		0.4290	*	0.0100
Molybdenum, Total	mg/L	MW-7S	08/08/2017		0.4250	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/30/2018		0.5280	*	0.0100
Molybdenum, Total	mg/L	MW-7S	09/18/2018		0.5180	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/15/2019		0.5750	*	0.0100
Molybdenum, Total	mg/L	MW-7S	11/06/2019		0.6080	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/27/2020		0.7050	*	0.0100
Molybdenum, Total	mg/L	MW-7S	11/17/2020		0.6810	*	0.0100
Molybdenum, Total	mg/L	MW-7S	05/06/2021		0.6760	*	0.0100
Molybdenum, Total	mg/L	MW-8S	04/07/2016		0.2580	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/26/2016		0.2100	*	0.0100
Molybdenum, Total	mg/L	MW-8S	08/09/2016		0.3290	*	0.0100
Molybdenum, Total	mg/L	MW-8S	09/28/2016		0.3310	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/30/2016		0.3890	*	0.0100
Molybdenum, Total	mg/L	MW-8S	01/26/2017		0.2940	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/23/2017		0.2080	*	0.0100
Molybdenum, Total	mg/L	MW-8S	08/09/2017		0.1500	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/29/2018		0.4190	*	0.0100
Molybdenum, Total	mg/L	MW-8S	09/17/2018		0.3110	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/15/2019		0.3290	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/07/2019		0.5300	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/26/2020		0.3060	*	0.0100
Molybdenum, Total	mg/L	MW-8S	11/09/2020		0.5320	*	0.0100
Molybdenum, Total	mg/L	MW-8S	05/05/2021		0.3540	*	0.0100
Molybdenum, Total	mg/L	MW-9S	04/06/2016		0.5190	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/25/2016		0.4380	*	0.0100
Molybdenum, Total	mg/L	MW-9S	08/08/2016		0.3740	*	0.0100
Molybdenum, Total	mg/L	MW-9S	09/27/2016		0.3440	*	0.0100
Molybdenum, Total	mg/L	MW-9S	11/28/2016		0.3680	*	0.0100
Molybdenum, Total	mg/L	MW-9S	01/25/2017		0.2900	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/23/2017		0.2170	*	0.0100
Molybdenum, Total	mg/L	MW-9S	08/08/2017		0.1910	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/30/2018		0.1160	*	0.0100
Molybdenum, Total	mg/L	MW-9S	09/17/2018		0.0984	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/16/2019		0.1180	*	0.0100
Molybdenum, Total	mg/L	MW-9S	05/29/2020		0.0939	*	0.0100
Molybdenum, Total	mg/L	MW-9S	11/09/2020		0.2010	*	0.0100
Selenium, Total	mg/L	MW-3S	04/05/2016		0.0111	*	0.0039
Selenium, Total	mg/L	MW-3S	05/25/2016		0.0107	*	0.0039
Selenium, Total	mg/L	MW-3S	08/08/2016		0.0150	*	0.0039
Selenium, Total	mg/L	MW-3S	09/26/2016	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	11/28/2016	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	01/24/2017	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	05/22/2017	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	08/07/2017	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	05/29/2018	ND	0.0100		0.0039
Selenium, Total	mg/L	MW-3S	09/17/2018		0.0034	*	0.0039
Selenium, Total	mg/L	MW-3S	05/14/2019		0.0165	*	0.0039
Selenium, Total	mg/L	MW-3S	11/05/2019	ND	0.0010		0.0039
Selenium, Total	mg/L	MW-3S	05/18/2020		0.0082	*	0.0039

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 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Selenium, Total	mg/L	MW-3S	11/03/2020		0.0015	0.0039
Selenium, Total	mg/L	MW-3S	05/03/2021		0.0095 *	0.0039
Selenium, Total	mg/L	MW-4S	04/05/2016		0.0508 *	0.0039
Selenium, Total	mg/L	MW-4S	05/25/2016		0.0315 *	0.0039
Selenium, Total	mg/L	MW-4S	08/08/2016		0.0356 *	0.0039
Selenium, Total	mg/L	MW-4S	09/26/2016		0.0134 *	0.0039
Selenium, Total	mg/L	MW-4S	11/29/2016		0.0390 *	0.0039
Selenium, Total	mg/L	MW-4S	01/24/2017		0.0196 *	0.0039
Selenium, Total	mg/L	MW-4S	05/22/2017		0.0205 *	0.0039
Selenium, Total	mg/L	MW-4S	08/07/2017		0.0199 *	0.0039
Selenium, Total	mg/L	MW-4S	05/29/2018	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-4S	09/14/2018		0.0338 *	0.0039
Selenium, Total	mg/L	MW-4S	05/14/2019		0.0161 *	0.0039
Selenium, Total	mg/L	MW-4S	06/05/2020		0.0124 *	0.0039
Selenium, Total	mg/L	MW-4S	11/03/2020		0.0414 *	0.0039
Selenium, Total	mg/L	MW-6S	04/06/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	05/25/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	08/09/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	09/27/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	11/29/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	01/25/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	05/23/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	08/08/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	05/30/2018	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-6S	09/18/2018		0.0020	0.0039
Selenium, Total	mg/L	MW-6S	05/14/2019		0.0017	0.0039
Selenium, Total	mg/L	MW-6S	05/28/2020		0.0037	0.0039
Selenium, Total	mg/L	MW-6S	11/09/2020	ND	0.0010	0.0039
Selenium, Total	mg/L	MW-6S	05/05/2021		0.0039 *	0.0039
Selenium, Total	mg/L	MW-9S	04/06/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	05/25/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	08/08/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	09/27/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	11/28/2016	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	01/25/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	05/23/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	08/08/2017	ND	0.0100	0.0039
Selenium, Total	mg/L	MW-9S	05/30/2018		0.1460 *	0.0039
Selenium, Total	mg/L	MW-9S	09/17/2018		0.0660 *	0.0039
Selenium, Total	mg/L	MW-9S	05/16/2019		0.0020	0.0039
Selenium, Total	mg/L	MW-9S	05/29/2020		0.1200 *	0.0039
Selenium, Total	mg/L	MW-9S	11/09/2020		0.0159 *	0.0039
Total Radium	pCi/L	MW-10S	04/06/2016		1.1700	2.4348
Total Radium	pCi/L	MW-10S	05/25/2016		0.7040	2.4348
Total Radium	pCi/L	MW-10S	08/09/2016		1.1400	2.4348
Total Radium	pCi/L	MW-10S	09/27/2016		1.3300	2.4348
Total Radium	pCi/L	MW-10S	11/29/2016		1.5400	2.4348
Total Radium	pCi/L	MW-10S	01/25/2017	ND	1.7300	2.4348
Total Radium	pCi/L	MW-10S	05/23/2017		1.1200	2.4348
Total Radium	pCi/L	MW-10S	08/08/2017		1.4000	2.4348
Total Radium	pCi/L	MW-10S	05/30/2018		1.1700	2.4348
Total Radium	pCi/L	MW-10S	09/18/2018		1.7600	2.4348
Total Radium	pCi/L	MW-10S	05/16/2019		1.0300	2.4348
Total Radium	pCi/L	MW-10S	11/05/2019		0.6290	2.4348
Total Radium	pCi/L	MW-10S	05/19/2020		0.9880	2.4348
Total Radium	pCi/L	MW-10S	11/05/2020		4.0700 *	2.4348
Total Radium	pCi/L	MW-10S	05/06/2021	ND	2.0000	2.4348
Total Radium	pCi/L	MW-1S	04/07/2016		2.0400	2.4348
Total Radium	pCi/L	MW-1S	05/26/2016		1.5300	2.4348
Total Radium	pCi/L	MW-1S	08/09/2016		4.2400 *	2.4348
Total Radium	pCi/L	MW-1S	09/27/2016		1.7500	2.4348

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-1S	11/29/2016		1.3400	2.4348
Total Radium	pCi/L	MW-1S	01/26/2017		2.1400	2.4348
Total Radium	pCi/L	MW-1S	05/23/2017		2.4100	2.4348
Total Radium	pCi/L	MW-1S	08/09/2017		1.2400	2.4348
Total Radium	pCi/L	MW-1S	05/29/2018	*	4.8400	2.4348
Total Radium	pCi/L	MW-1S	09/17/2018		2.2700	2.4348
Total Radium	pCi/L	MW-1S	05/15/2019		1.7600	2.4348
Total Radium	pCi/L	MW-1S	11/07/2019	*	5.3800	2.4348
Total Radium	pCi/L	MW-1S	05/26/2020		0.9380	2.4348
Total Radium	pCi/L	MW-1S	11/06/2020	*	3.0800	2.4348
Total Radium	pCi/L	MW-1S	05/05/2021	*	3.5400	2.4348
Total Radium	pCi/L	MW-2S	04/05/2016		1.6900	2.4348
Total Radium	pCi/L	MW-2S	05/24/2016		2.2300	2.4348
Total Radium	pCi/L	MW-2S	08/08/2016		1.2300	2.4348
Total Radium	pCi/L	MW-2S	09/26/2016		0.9650	2.4348
Total Radium	pCi/L	MW-2S	11/28/2016	*	2.4400	2.4348
Total Radium	pCi/L	MW-2S	01/24/2017		0.9750	2.4348
Total Radium	pCi/L	MW-2S	05/22/2017		1.5000	2.4348
Total Radium	pCi/L	MW-2S	08/07/2017		1.3000	2.4348
Total Radium	pCi/L	MW-2S	05/29/2018		1.3800	2.4348
Total Radium	pCi/L	MW-2S	09/17/2018		1.1400	2.4348
Total Radium	pCi/L	MW-2S	05/14/2019		2.1200	2.4348
Total Radium	pCi/L	MW-2S	11/05/2019	*	2.6900	2.4348
Total Radium	pCi/L	MW-2S	05/19/2020		1.3600	2.4348
Total Radium	pCi/L	MW-2S	11/04/2020	*	4.4600	2.4348
Total Radium	pCi/L	MW-2S	05/03/2021		0.8270	2.4348

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

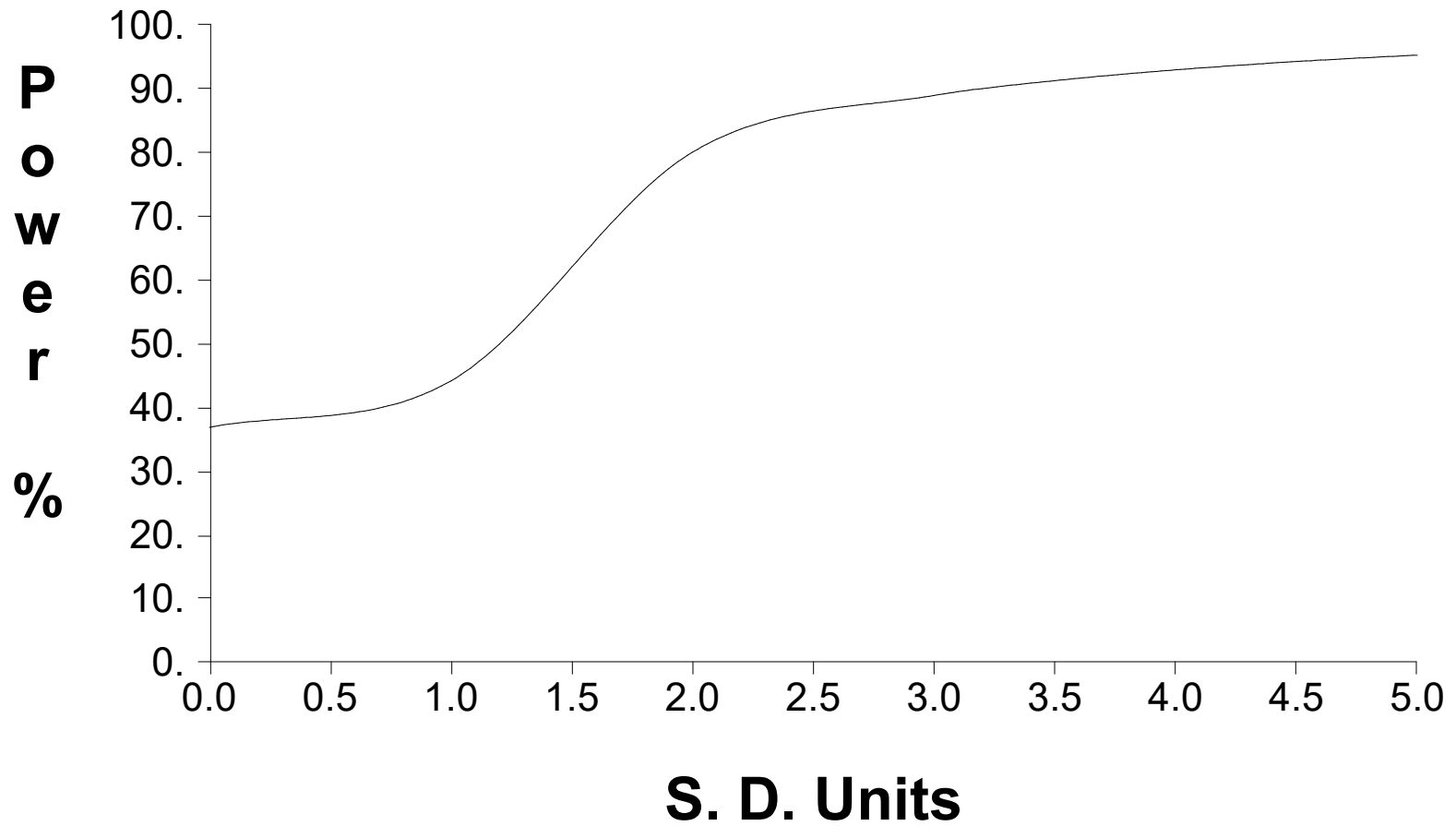


Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Antimony, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Antimony, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		
Antimony, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Antimony, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Antimony, Total	mg/L	MW-15D	11/03/2020	ND	0.0010		
Antimony, Total	mg/L	MW-15D	05/06/2021	ND	0.0010		
Arsenic, Total	mg/L	MW-15D	09/18/2018		0.0013		
Arsenic, Total	mg/L	MW-15D	11/29/2018		0.0012		
Arsenic, Total	mg/L	MW-15D	02/04/2019		0.0013		
Arsenic, Total	mg/L	MW-15D	03/25/2019		0.0011		
Arsenic, Total	mg/L	MW-15D	05/14/2019		0.0010		
Arsenic, Total	mg/L	MW-15D	07/24/2019		0.0011		
Arsenic, Total	mg/L	MW-15D	11/05/2019		0.0011		
Arsenic, Total	mg/L	MW-15D	01/29/2020		0.0011		
Arsenic, Total	mg/L	MW-15D	05/27/2020		0.0012		
Arsenic, Total	mg/L	MW-15D	11/03/2020		0.0017		
Arsenic, Total	mg/L	MW-15D	05/06/2021		0.0011		
Barium, Total	mg/L	MW-15D	09/18/2018		0.0714		
Barium, Total	mg/L	MW-15D	11/29/2018		0.0678		
Barium, Total	mg/L	MW-15D	02/04/2019		0.0696		
Barium, Total	mg/L	MW-15D	03/25/2019		0.0684		
Barium, Total	mg/L	MW-15D	05/14/2019		0.0656		
Barium, Total	mg/L	MW-15D	07/24/2019		0.0646		
Barium, Total	mg/L	MW-15D	11/05/2019		0.0653		
Barium, Total	mg/L	MW-15D	01/29/2020		0.0652		
Barium, Total	mg/L	MW-15D	05/27/2020		0.0642		
Barium, Total	mg/L	MW-15D	11/03/2020		0.0632		
Barium, Total	mg/L	MW-15D	05/06/2021		0.0689		
Beryllium, Total	mg/L	MW-15D	09/18/2018	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	11/29/2018	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	02/04/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	03/25/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	05/14/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	07/24/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	11/05/2019	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	01/29/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	05/27/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	11/03/2020	ND	0.0002		
Beryllium, Total	mg/L	MW-15D	05/06/2021	ND	0.0002		
Cadmium, Total	mg/L	MW-15D	09/18/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	11/29/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	02/04/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	03/25/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	05/14/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	07/24/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	11/05/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010	0.0020	**
Cadmium, Total	mg/L	MW-15D	05/27/2020	ND	0.0020		
Cadmium, Total	mg/L	MW-15D	05/06/2021	ND	0.0020		
Chromium, Total	mg/L	MW-15D	09/18/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/29/2018	ND	0.0100		
Chromium, Total	mg/L	MW-15D	02/04/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	03/25/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	05/14/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	07/24/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/05/2019	ND	0.0100		
Chromium, Total	mg/L	MW-15D	01/29/2020	ND	0.0200	0.0100	**
Chromium, Total	mg/L	MW-15D	05/27/2020	ND	0.0100		
Chromium, Total	mg/L	MW-15D	11/03/2020	ND	0.0100		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted
Chromium, Total	mg/L	MW-15D	05/06/2021	ND	0.0100	
Cobalt, Total	mg/L	MW-15D	09/18/2018	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	11/29/2018	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	02/04/2019	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	03/25/2019	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	05/14/2019	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	07/24/2019	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	11/05/2019	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	01/29/2020	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	05/27/2020	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	11/03/2020	ND	0.0010	
Cobalt, Total	mg/L	MW-15D	05/06/2021	ND	0.0010	
Fluoride	mg/L	MW-15D	09/18/2018	ND	0.1000	
Fluoride	mg/L	MW-15D	11/29/2018		0.1200	
Fluoride	mg/L	MW-15D	02/04/2019		0.1200	
Fluoride	mg/L	MW-15D	03/25/2019		0.1300	
Fluoride	mg/L	MW-15D	05/14/2019		0.1100	
Fluoride	mg/L	MW-15D	07/24/2019	ND	0.1000	
Fluoride	mg/L	MW-15D	11/05/2019	ND	0.1000	
Fluoride	mg/L	MW-15D	01/29/2020		0.1000	
Fluoride	mg/L	MW-15D	05/27/2020		0.1100	
Fluoride	mg/L	MW-15D	11/03/2020	ND	0.1000	
Fluoride	mg/L	MW-15D	05/06/2021	ND	0.1000	
Lead, Total	mg/L	MW-15D	09/18/2018	ND	0.0100	
Lead, Total	mg/L	MW-15D	11/29/2018	ND	0.0100	
Lead, Total	mg/L	MW-15D	02/04/2019	ND	0.0100	
Lead, Total	mg/L	MW-15D	03/25/2019	ND	0.0100	
Lead, Total	mg/L	MW-15D	05/14/2019	ND	0.0100	
Lead, Total	mg/L	MW-15D	07/24/2019	ND	0.0100	
Lead, Total	mg/L	MW-15D	11/05/2019	ND	0.0100	
Lead, Total	mg/L	MW-15D	01/29/2020	ND	0.0100	
Lead, Total	mg/L	MW-15D	05/27/2020	ND	0.0100	
Lead, Total	mg/L	MW-15D	11/03/2020	ND	0.0100	
Lead, Total	mg/L	MW-15D	05/06/2021	ND	0.0100	
Lithium, Total	mg/L	MW-15D	09/18/2018	ND	0.0200	
Lithium, Total	mg/L	MW-15D	11/29/2018	ND	0.0200	
Lithium, Total	mg/L	MW-15D	02/04/2019	ND	0.0200	
Lithium, Total	mg/L	MW-15D	03/25/2019	ND	0.0200	
Lithium, Total	mg/L	MW-15D	05/14/2019	ND	0.0200	
Lithium, Total	mg/L	MW-15D	07/24/2019	ND	0.0200	
Lithium, Total	mg/L	MW-15D	11/05/2019	ND	0.0200	
Lithium, Total	mg/L	MW-15D	01/29/2020	ND	0.0200	
Lithium, Total	mg/L	MW-15D	05/27/2020	ND	0.0200	
Lithium, Total	mg/L	MW-15D	11/03/2020	ND	0.0200	
Lithium, Total	mg/L	MW-15D	05/06/2021	ND	0.0200	
Mercury	mg/L	MW-15D	09/18/2018	ND	0.0020	
Mercury	mg/L	MW-15D	11/29/2018	ND	0.0020	
Mercury	mg/L	MW-15D	02/04/2019	ND	0.0020	
Mercury	mg/L	MW-15D	03/25/2019	ND	0.0020	
Mercury	mg/L	MW-15D	05/14/2019	ND	0.0020	
Mercury	mg/L	MW-15D	07/24/2019	ND	0.0020	
Mercury	mg/L	MW-15D	11/05/2019	ND	0.0020	
Mercury	mg/L	MW-15D	01/29/2020	ND	0.0002	0.0020 **
Mercury	mg/L	MW-15D	05/27/2020	ND	0.0020	
Mercury	mg/L	MW-15D	05/06/2021	ND	0.0020	
Molybdenum, Total	mg/L	MW-15D	09/18/2018	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	11/29/2018	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	02/04/2019	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	03/25/2019	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	05/14/2019	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	07/24/2019	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	11/05/2019	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	01/29/2020	ND	0.0100	
Molybdenum, Total	mg/L	MW-15D	05/27/2020	ND	0.0100	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Molybdenum, Total	mg/L	MW-15D	11/03/2020	ND	0.0100		
Molybdenum, Total	mg/L	MW-15D	05/06/2021	ND	0.0100		
Selenium, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Selenium, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		
Selenium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15D	11/03/2020	ND	0.0010		
Selenium, Total	mg/L	MW-15D	05/06/2021	ND	0.0010		
Thallium, Total	mg/L	MW-15D	09/18/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15D	11/29/2018	ND	0.0010		
Thallium, Total	mg/L	MW-15D	02/04/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	03/25/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	05/14/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	07/24/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	11/05/2019	ND	0.0010		
Thallium, Total	mg/L	MW-15D	01/29/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15D	05/27/2020	ND	0.0010		
Thallium, Total	mg/L	MW-15D	05/06/2021	ND	0.0010		
Total Radium	pCi/L	MW-15D	09/18/2018		1.1700		
Total Radium	pCi/L	MW-15D	11/29/2018		1.6500		
Total Radium	pCi/L	MW-15D	02/04/2019		1.0600		
Total Radium	pCi/L	MW-15D	03/25/2019		1.4600		
Total Radium	pCi/L	MW-15D	05/14/2019		2.0600		
Total Radium	pCi/L	MW-15D	07/24/2019		1.4500		
Total Radium	pCi/L	MW-15D	11/05/2019		1.1000		
Total Radium	pCi/L	MW-15D	01/29/2020		0.8340		
Total Radium	pCi/L	MW-15D	05/27/2020		1.2100		
Total Radium	pCi/L	MW-15D	11/03/2020		1.4300		
Total Radium	pCi/L	MW-15D	05/06/2021		1.7400		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	mg/L	MW-10D	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-11D	05/05/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-12D	05/03/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-13D	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-14D	05/05/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-1D	05/05/2021	ND	0.0010	**	0.0010
Antimony, Total	mg/L	MW-2D	05/03/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-3D	05/03/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-7D	05/06/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9D	05/03/2021	ND	0.0010		0.0010
Antimony, Total	mg/L	MW-9I	05/03/2021	ND	0.0010		0.0010
Arsenic, Total	mg/L	MW-10D	05/06/2021		0.2500	***	0.0018
Arsenic, Total	mg/L	MW-11D	05/05/2021		0.0155	***	0.0018
Arsenic, Total	mg/L	MW-12D	05/03/2021		0.4630	***	0.0018
Arsenic, Total	mg/L	MW-13D	05/06/2021		0.2420	***	0.0018
Arsenic, Total	mg/L	MW-14D	05/05/2021		0.1330	***	0.0018
Arsenic, Total	mg/L	MW-1D	05/05/2021		0.0059	***	0.0018
Arsenic, Total	mg/L	MW-2D	05/03/2021		0.0025	***	0.0018
Arsenic, Total	mg/L	MW-3D	05/03/2021		0.0038	***	0.0018
Arsenic, Total	mg/L	MW-7D	05/06/2021		0.4760	***	0.0018
Arsenic, Total	mg/L	MW-9D	05/03/2021		0.0087	***	0.0018
Arsenic, Total	mg/L	MW-9I	05/03/2021		0.0048	***	0.0018
Barium, Total	mg/L	MW-10D	05/06/2021		0.0264		0.0743
Barium, Total	mg/L	MW-11D	05/05/2021		0.0265		0.0743
Barium, Total	mg/L	MW-12D	05/03/2021		0.0284		0.0743
Barium, Total	mg/L	MW-13D	05/06/2021		0.0541		0.0743
Barium, Total	mg/L	MW-14D	05/05/2021		0.0711		0.0743
Barium, Total	mg/L	MW-1D	05/05/2021		0.0775	***	0.0743
Barium, Total	mg/L	MW-2D	05/03/2021		0.0378	**	0.0743
Barium, Total	mg/L	MW-3D	05/03/2021		0.0393		0.0743
Barium, Total	mg/L	MW-7D	05/06/2021		0.0418		0.0743
Barium, Total	mg/L	MW-9D	05/03/2021		0.0552		0.0743
Barium, Total	mg/L	MW-9I	05/03/2021		0.0695		0.0743
Beryllium, Total	mg/L	MW-10D	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-11D	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-12D	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-13D	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-14D	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-1D	05/05/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-2D	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-3D	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-7D	05/06/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9D	05/03/2021	ND	0.0002		0.0002
Beryllium, Total	mg/L	MW-9I	05/03/2021	ND	0.0002		0.0002
Cadmium, Total	mg/L	MW-10D	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-11D	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-12D	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-13D	05/06/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-14D	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1D	05/05/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2D	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-3D	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-7D	05/06/2021		0.0021	*	0.0020
Cadmium, Total	mg/L	MW-9D	05/03/2021	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-9I	05/03/2021	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-10D	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-11D	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-12D	05/03/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-13D	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-14D	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1D	05/05/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2D	05/03/2021	ND	0.0100		0.0100

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Chromium, Total	mg/L	MW-3D	05/03/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-7D	05/06/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9D	05/03/2021	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-9I	05/03/2021	ND	0.0100		0.0100
Cobalt, Total	mg/L	MW-10D	05/06/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-11D	05/05/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-12D	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-13D	05/06/2021		0.0011	*	0.0010
Cobalt, Total	mg/L	MW-14D	05/05/2021		0.0012	*	0.0010
Cobalt, Total	mg/L	MW-1D	05/05/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-2D	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-3D	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-7D	05/06/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9D	05/03/2021	ND	0.0010		0.0010
Cobalt, Total	mg/L	MW-9I	05/03/2021	ND	0.0010		0.0010
Fluoride	mg/L	MW-10D	05/06/2021		2.6000	***	0.1300
Fluoride	mg/L	MW-11D	05/05/2021		0.2500	***	0.1300
Fluoride	mg/L	MW-12D	05/03/2021		1.3000	***	0.1300
Fluoride	mg/L	MW-13D	05/06/2021		0.6000	***	0.1300
Fluoride	mg/L	MW-14D	05/05/2021	ND	0.1000	**	0.1300
Fluoride	mg/L	MW-1D	05/05/2021		0.2300	***	0.1300
Fluoride	mg/L	MW-2D	05/03/2021		0.8700	***	0.1300
Fluoride	mg/L	MW-3D	05/03/2021		0.1800	***	0.1300
Fluoride	mg/L	MW-7D	05/06/2021		0.3600	***	0.1300
Fluoride	mg/L	MW-9D	05/03/2021		0.4000	***	0.1300
Fluoride	mg/L	MW-9I	05/03/2021		0.9700	***	0.1300
Lead, Total	mg/L	MW-10D	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11D	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-12D	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-13D	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-14D	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-1D	05/05/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2D	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3D	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-7D	05/06/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9D	05/03/2021	ND	0.0100		0.0100
Lead, Total	mg/L	MW-9I	05/03/2021	ND	0.0100		0.0100
Lithium, Total	mg/L	MW-10D	05/06/2021		0.0498	***	0.0200
Lithium, Total	mg/L	MW-11D	05/05/2021		0.1410	***	0.0200
Lithium, Total	mg/L	MW-12D	05/03/2021		0.0696	***	0.0200
Lithium, Total	mg/L	MW-13D	05/06/2021		0.0727	***	0.0200
Lithium, Total	mg/L	MW-14D	05/05/2021		0.8090	***	0.0200
Lithium, Total	mg/L	MW-1D	05/05/2021		0.0236	*	0.0200
Lithium, Total	mg/L	MW-2D	05/03/2021		0.0403	***	0.0200
Lithium, Total	mg/L	MW-3D	05/03/2021	ND	0.0200		0.0200
Lithium, Total	mg/L	MW-7D	05/06/2021		0.0969	***	0.0200
Lithium, Total	mg/L	MW-9D	05/03/2021		0.0250	***	0.0200
Lithium, Total	mg/L	MW-9I	05/03/2021		0.0305	***	0.0200
Mercury	mg/L	MW-10D	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-11D	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-12D	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-13D	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-14D	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-1D	05/05/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-2D	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-3D	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-7D	05/06/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-9D	05/03/2021	ND	0.0020		0.0020
Mercury	mg/L	MW-9I	05/03/2021	ND	0.0020		0.0020
Molybdenum, Total	mg/L	MW-10D	05/06/2021		0.0972	***	0.0100
Molybdenum, Total	mg/L	MW-11D	05/05/2021	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-12D	05/03/2021		0.1730	***	0.0100

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**** - Current value passed - awaiting one more verification.
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ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	mg/L	MW-13D	05/06/2021		0.7620	***	0.0100
Molybdenum, Total	mg/L	MW-14D	05/05/2021		0.2180	***	0.0100
Molybdenum, Total	mg/L	MW-1D	05/05/2021		0.0398	***	0.0100
Molybdenum, Total	mg/L	MW-2D	05/03/2021		0.0563	***	0.0100
Molybdenum, Total	mg/L	MW-3D	05/03/2021	ND	0.0100		0.0100
Molybdenum, Total	mg/L	MW-7D	05/06/2021		0.7040	***	0.0100
Molybdenum, Total	mg/L	MW-9D	05/03/2021		0.0496	***	0.0100
Molybdenum, Total	mg/L	MW-9I	05/03/2021		0.1340	***	0.0100
Selenium, Total	mg/L	MW-10D	05/06/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-11D	05/05/2021	ND	0.0055		0.0010
Selenium, Total	mg/L	MW-12D	05/03/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-13D	05/06/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-14D	05/05/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-1D	05/05/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-2D	05/03/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-3D	05/03/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-7D	05/06/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-9D	05/03/2021	ND	0.0010		0.0010
Selenium, Total	mg/L	MW-9I	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-10D	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-11D	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-12D	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-13D	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-14D	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-1D	05/05/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-2D	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-3D	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-7D	05/06/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9D	05/03/2021	ND	0.0010		0.0010
Thallium, Total	mg/L	MW-9I	05/03/2021	ND	0.0010		0.0010
Total Radium	pCi/L	MW-10D	05/06/2021		1.9400		2.3911
Total Radium	pCi/L	MW-11D	05/05/2021		0.6650		2.3911
Total Radium	pCi/L	MW-12D	05/03/2021	ND	2.0700		2.3911
Total Radium	pCi/L	MW-13D	05/06/2021		1.7700		2.3911
Total Radium	pCi/L	MW-14D	05/05/2021		2.0700		2.3911
Total Radium	pCi/L	MW-1D	05/05/2021		1.9900	**	2.3911
Total Radium	pCi/L	MW-2D	05/03/2021		1.8400	**	2.3911
Total Radium	pCi/L	MW-3D	05/03/2021	ND	1.6400		2.3911
Total Radium	pCi/L	MW-7D	05/06/2021		1.4500		2.3911
Total Radium	pCi/L	MW-9D	05/03/2021		1.6500		2.3911
Total Radium	pCi/L	MW-9I	05/03/2021	ND	2.2000	**	2.3911

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 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	11	0.000	1	165	0.006
Arsenic, Total	11	11	1.000	122	165	0.739
Barium, Total	11	11	1.000	165	165	1.000
Beryllium, Total	0	11	0.000	0	154	0.000
Cadmium, Total	0	10	0.000	5	143	0.035
Chromium, Total	0	11	0.000	4	165	0.024
Cobalt, Total	0	11	0.000	3	154	0.019
Fluoride	6	11	0.545	174	176	0.989
Lead, Total	0	11	0.000	0	154	0.000
Lithium, Total	0	11	0.000	158	165	0.958
Mercury	0	10	0.000	1	143	0.007
Molybdenum, Total	0	11	0.000	148	165	0.897
Selenium, Total	0	11	0.000	0	165	0.000
Thallium, Total	0	10	0.000	0	143	0.000
Total Radium	11	11	1.000	142	165	0.861

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form
Antimony, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Arsenic, Total	11	11	1.000	2.605	2.030					2.326	lognor
Barium, Total	11	11	1.000	0.028	0.102					2.326	normal
Beryllium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Cadmium, Total	0	10	0.000	3.262	3.262					2.326	non-norm
Chromium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Cobalt, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Fluoride	6	11	0.545	2.479	2.457					2.326	non-norm
Lead, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Lithium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Mercury	0	10	0.000	3.262	3.262					2.326	non-norm
Molybdenum, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Selenium, Total	0	11	0.000	3.485	3.485					2.326	non-norm
Thallium, Total	0	10	0.000	3.262	3.262					2.326	non-norm
Total Radium	11	11	1.000	1.312	2.012					2.326	normal

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Model Type
Antimony, Total	nonpar
Arsenic, Total	lognor
Barium, Total	normal
Beryllium, Total	nonpar
Cadmium, Total	nonpar
Chromium, Total	nonpar
Cobalt, Total	nonpar
Fluoride	nonpar
Lead, Total	nonpar
Lithium, Total	nonpar
Mercury	nonpar
Molybdenum, Total	nonpar
Selenium, Total	nonpar
Thallium, Total	nonpar
Total Radium	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if $G \leq$ critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	mg/L	0	11					0.0010	nonpar	***	0.89
Arsenic, Total	mg/L	11	11	-6.7353	0.1429	0.0100	2.8863	0.0018	lognor		
Barium, Total	mg/L	11	11	0.0667	0.0026	0.0100	2.8863	0.0743	normal		
Beryllium, Total	mg/L	0	11					0.0002	nonpar	***	0.89
Cadmium, Total	mg/L	0	10					0.0020	nonpar	***	0.87
Chromium, Total	mg/L	0	11					0.0100	nonpar	***	0.89
Cobalt, Total	mg/L	0	11					0.0010	nonpar	***	0.89
Fluoride	mg/L	6	11					0.1300	nonpar		0.89
Lead, Total	mg/L	0	11					0.0100	nonpar	***	0.89
Lithium, Total	mg/L	0	11					0.0200	nonpar	***	0.89
Mercury	mg/L	0	10					0.0020	nonpar	***	0.87
Molybdenum, Total	mg/L	0	11					0.0100	nonpar	***	0.89
Selenium, Total	mg/L	0	11					0.0010	nonpar	***	0.89
Thallium, Total	mg/L	0	10					0.0010	nonpar	***	0.87
Total Radium	pCi/L	11	11	1.3785	0.3508	0.0100	2.8863	2.3911	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.
 Date Range = Dates of the first and last measurements included in background at each well.
 Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Antimony, Total	mg/L	MW-1D	04/07/2016	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	05/26/2016	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	08/09/2016	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	09/27/2016	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	11/29/2016	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	01/26/2017	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	05/23/2017	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	08/09/2017	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	05/29/2018	ND	0.0060	0.0010
Antimony, Total	mg/L	MW-1D	09/17/2018	ND	0.0010	0.0010
Antimony, Total	mg/L	MW-1D	05/15/2019	ND	0.0010	0.0010
Antimony, Total	mg/L	MW-1D	11/07/2019	ND	0.0010	0.0010
Antimony, Total	mg/L	MW-1D	05/26/2020	ND	0.0010	0.0010
Antimony, Total	mg/L	MW-1D	11/06/2020		0.0031 *	0.0010
Antimony, Total	mg/L	MW-1D	05/05/2021	ND	0.0010	0.0010
Arsenic, Total	mg/L	MW-10D	04/06/2016		0.4120 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/25/2016		0.4400 *	0.0018
Arsenic, Total	mg/L	MW-10D	08/09/2016		0.4640 *	0.0018
Arsenic, Total	mg/L	MW-10D	09/27/2016		0.4880 *	0.0018
Arsenic, Total	mg/L	MW-10D	11/29/2016		0.4060 *	0.0018
Arsenic, Total	mg/L	MW-10D	01/25/2017		0.4330 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/23/2017		0.3990 *	0.0018
Arsenic, Total	mg/L	MW-10D	08/08/2017		0.4470 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/30/2018		0.3960 *	0.0018
Arsenic, Total	mg/L	MW-10D	09/18/2018		0.3230 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/16/2019		0.3130 *	0.0018
Arsenic, Total	mg/L	MW-10D	11/05/2019		0.2750 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/19/2020		0.2680 *	0.0018
Arsenic, Total	mg/L	MW-10D	11/05/2020		0.2650 *	0.0018
Arsenic, Total	mg/L	MW-10D	05/06/2021		0.2500 *	0.0018
Arsenic, Total	mg/L	MW-11D	04/07/2016		0.0106 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/26/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-11D	08/10/2016		0.0144 *	0.0018
Arsenic, Total	mg/L	MW-11D	09/28/2016		0.0148 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/30/2016		0.0120 *	0.0018
Arsenic, Total	mg/L	MW-11D	01/26/2017		0.0107 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/24/2017		0.0144 *	0.0018
Arsenic, Total	mg/L	MW-11D	08/09/2017		0.0145 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/29/2018		0.0182 *	0.0018
Arsenic, Total	mg/L	MW-11D	09/14/2018		0.0146 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/14/2019		0.0143 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/07/2019		0.0154 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/27/2020		0.0157 *	0.0018
Arsenic, Total	mg/L	MW-11D	11/05/2020		0.0144 *	0.0018
Arsenic, Total	mg/L	MW-11D	05/05/2021		0.0155 *	0.0018
Arsenic, Total	mg/L	MW-12D	04/06/2016		0.2410 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/25/2016		0.2520 *	0.0018
Arsenic, Total	mg/L	MW-12D	08/09/2016		0.2430 *	0.0018
Arsenic, Total	mg/L	MW-12D	09/27/2016		0.2570 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/29/2016		0.2800 *	0.0018
Arsenic, Total	mg/L	MW-12D	01/25/2017		0.2750 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/23/2017		0.2680 *	0.0018
Arsenic, Total	mg/L	MW-12D	08/08/2017		0.2040 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/30/2018		0.2230 *	0.0018
Arsenic, Total	mg/L	MW-12D	09/17/2018		0.2140 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/16/2019		0.2100 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/06/2019		0.2320 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/18/2020		0.2870 *	0.0018
Arsenic, Total	mg/L	MW-12D	11/05/2020		0.5130 *	0.0018
Arsenic, Total	mg/L	MW-12D	05/03/2021		0.4630 *	0.0018
Arsenic, Total	mg/L	MW-13D	04/06/2016		0.2140 *	0.0018

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	mg/L	MW-13D	05/25/2016		0.2150 *	0.0018
Arsenic, Total	mg/L	MW-13D	08/09/2016		0.2450 *	0.0018
Arsenic, Total	mg/L	MW-13D	09/27/2016		0.2820 *	0.0018
Arsenic, Total	mg/L	MW-13D	11/29/2016		0.2910 *	0.0018
Arsenic, Total	mg/L	MW-13D	01/25/2017		0.3150 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/23/2017		0.3060 *	0.0018
Arsenic, Total	mg/L	MW-13D	08/08/2017		0.2770 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/30/2018		0.2530 *	0.0018
Arsenic, Total	mg/L	MW-13D	09/18/2018		0.2140 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/16/2019		0.2250 *	0.0018
Arsenic, Total	mg/L	MW-13D	11/06/2019		0.2190 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/19/2020		0.2410 *	0.0018
Arsenic, Total	mg/L	MW-13D	11/05/2020		0.2240 *	0.0018
Arsenic, Total	mg/L	MW-13D	05/06/2021		0.2420 *	0.0018
Arsenic, Total	mg/L	MW-14D	04/07/2016		0.0891 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/26/2016		0.0876 *	0.0018
Arsenic, Total	mg/L	MW-14D	08/10/2016		0.0865 *	0.0018
Arsenic, Total	mg/L	MW-14D	09/28/2016		0.0923 *	0.0018
Arsenic, Total	mg/L	MW-14D	11/30/2016		0.1030 *	0.0018
Arsenic, Total	mg/L	MW-14D	01/26/2017		0.1160 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/23/2017		0.1240 *	0.0018
Arsenic, Total	mg/L	MW-14D	08/09/2017		0.1280 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/30/2018		0.1470 *	0.0018
Arsenic, Total	mg/L	MW-14D	09/17/2018		0.1160 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/15/2019		0.1080 *	0.0018
Arsenic, Total	mg/L	MW-14D	11/07/2019		0.1110 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/26/2020		0.1310 *	0.0018
Arsenic, Total	mg/L	MW-14D	11/05/2020		0.1050 *	0.0018
Arsenic, Total	mg/L	MW-14D	05/05/2021		0.1330 *	0.0018
Arsenic, Total	mg/L	MW-1D	04/07/2016		0.0103 *	0.0018
Arsenic, Total	mg/L	MW-1D	05/26/2016		0.0120 *	0.0018
Arsenic, Total	mg/L	MW-1D	08/09/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	09/27/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	11/29/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	01/26/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	05/23/2017		0.0117 *	0.0018
Arsenic, Total	mg/L	MW-1D	08/09/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	05/29/2018	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-1D	09/17/2018		0.0042 *	0.0018
Arsenic, Total	mg/L	MW-1D	05/15/2019		0.0047 *	0.0018
Arsenic, Total	mg/L	MW-1D	11/07/2019		0.0052 *	0.0018
Arsenic, Total	mg/L	MW-1D	05/26/2020		0.0074 *	0.0018
Arsenic, Total	mg/L	MW-1D	11/06/2020		0.0506 *	0.0018
Arsenic, Total	mg/L	MW-1D	05/05/2021		0.0059 *	0.0018
Arsenic, Total	mg/L	MW-2D	04/05/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	05/24/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	08/08/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	09/26/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	11/28/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	01/24/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	05/22/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	08/07/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	05/29/2018	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-2D	09/17/2018		0.0018 *	0.0018
Arsenic, Total	mg/L	MW-2D	05/15/2019		0.0022 *	0.0018
Arsenic, Total	mg/L	MW-2D	11/05/2019		0.0031 *	0.0018
Arsenic, Total	mg/L	MW-2D	05/19/2020		0.0019 *	0.0018
Arsenic, Total	mg/L	MW-2D	11/04/2020		0.0038 *	0.0018
Arsenic, Total	mg/L	MW-2D	05/03/2021		0.0025 *	0.0018
Arsenic, Total	mg/L	MW-3D	04/05/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	05/25/2016	ND	0.0100	0.0018

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	mg/L	MW-3D	08/08/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	09/26/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	11/28/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	01/24/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	05/22/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	08/07/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	05/29/2018	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-3D	09/17/2018		0.0027 *	0.0018
Arsenic, Total	mg/L	MW-3D	05/15/2019		0.0029 *	0.0018
Arsenic, Total	mg/L	MW-3D	11/06/2019		0.0029 *	0.0018
Arsenic, Total	mg/L	MW-3D	05/18/2020		0.0033 *	0.0018
Arsenic, Total	mg/L	MW-3D	11/03/2020		0.0029 *	0.0018
Arsenic, Total	mg/L	MW-3D	05/03/2021		0.0038 *	0.0018
Arsenic, Total	mg/L	MW-7D	04/06/2016		0.4280 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/25/2016		0.4350 *	0.0018
Arsenic, Total	mg/L	MW-7D	08/09/2016		0.4120 *	0.0018
Arsenic, Total	mg/L	MW-7D	09/27/2016		0.4080 *	0.0018
Arsenic, Total	mg/L	MW-7D	11/29/2016		0.4170 *	0.0018
Arsenic, Total	mg/L	MW-7D	01/25/2017		0.4680 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/23/2017		0.5090 *	0.0018
Arsenic, Total	mg/L	MW-7D	08/08/2017		0.5040 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/30/2018		0.4910 *	0.0018
Arsenic, Total	mg/L	MW-7D	09/18/2018		0.4330 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/15/2019		0.4710 *	0.0018
Arsenic, Total	mg/L	MW-7D	11/06/2019		0.4320 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/27/2020		0.4670 *	0.0018
Arsenic, Total	mg/L	MW-7D	11/17/2020		0.4020 *	0.0018
Arsenic, Total	mg/L	MW-7D	05/06/2021		0.4760 *	0.0018
Arsenic, Total	mg/L	MW-9D	04/06/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	05/25/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	08/08/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	09/27/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	11/29/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	01/25/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	05/23/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	08/08/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	05/30/2018	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9D	09/17/2018		0.0028 *	0.0018
Arsenic, Total	mg/L	MW-9D	05/16/2019		0.0021 *	0.0018
Arsenic, Total	mg/L	MW-9D	11/06/2019		0.0032 *	0.0018
Arsenic, Total	mg/L	MW-9D	05/19/2020		0.0053 *	0.0018
Arsenic, Total	mg/L	MW-9D	11/04/2020		0.0047 *	0.0018
Arsenic, Total	mg/L	MW-9D	05/03/2021		0.0087 *	0.0018
Arsenic, Total	mg/L	MW-9I	04/06/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	05/25/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	08/08/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	09/27/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	11/28/2016	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	01/25/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	05/23/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	08/08/2017	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	05/30/2018	ND	0.0100	0.0018
Arsenic, Total	mg/L	MW-9I	09/17/2018		0.0050 *	0.0018
Arsenic, Total	mg/L	MW-9I	05/16/2019		0.0038 *	0.0018
Arsenic, Total	mg/L	MW-9I	11/06/2019		0.0040 *	0.0018
Arsenic, Total	mg/L	MW-9I	05/19/2020		0.0042 *	0.0018
Arsenic, Total	mg/L	MW-9I	11/04/2020		0.0046 *	0.0018
Arsenic, Total	mg/L	MW-9I	05/03/2021		0.0048 *	0.0018
Barium, Total	mg/L	MW-1D	04/07/2016		0.0472	0.0743
Barium, Total	mg/L	MW-1D	05/26/2016		0.0496	0.0743
Barium, Total	mg/L	MW-1D	08/09/2016		0.0516	0.0743

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Barium, Total	mg/L	MW-1D	09/27/2016		0.0498	0.0743
Barium, Total	mg/L	MW-1D	11/29/2016		0.0393	0.0743
Barium, Total	mg/L	MW-1D	01/26/2017		0.0442	0.0743
Barium, Total	mg/L	MW-1D	05/23/2017		0.0484	0.0743
Barium, Total	mg/L	MW-1D	08/09/2017		0.0513	0.0743
Barium, Total	mg/L	MW-1D	05/29/2018		0.0498	0.0743
Barium, Total	mg/L	MW-1D	09/17/2018		0.0517	0.0743
Barium, Total	mg/L	MW-1D	05/15/2019		0.0618	0.0743
Barium, Total	mg/L	MW-1D	11/07/2019		0.0555	0.0743
Barium, Total	mg/L	MW-1D	05/26/2020		0.0710	0.0743
Barium, Total	mg/L	MW-1D	11/06/2020		0.1130	0.0743
Barium, Total	mg/L	MW-1D	05/05/2021		0.0775	0.0743
Barium, Total	mg/L	MW-2D	04/05/2016		0.0627	0.0743
Barium, Total	mg/L	MW-2D	05/24/2016		0.0346	0.0743
Barium, Total	mg/L	MW-2D	08/08/2016		0.0338	0.0743
Barium, Total	mg/L	MW-2D	09/26/2016		0.0364	0.0743
Barium, Total	mg/L	MW-2D	11/28/2016		0.0362	0.0743
Barium, Total	mg/L	MW-2D	01/24/2017		0.0301	0.0743
Barium, Total	mg/L	MW-2D	05/22/2017		0.0286	0.0743
Barium, Total	mg/L	MW-2D	08/07/2017		0.0360	0.0743
Barium, Total	mg/L	MW-2D	05/29/2018		0.0582	0.0743
Barium, Total	mg/L	MW-2D	09/17/2018		0.0632	0.0743
Barium, Total	mg/L	MW-2D	05/15/2019		0.0766	0.0743
Barium, Total	mg/L	MW-2D	11/05/2019		0.1140	0.0743
Barium, Total	mg/L	MW-2D	05/19/2020		0.0653	0.0743
Barium, Total	mg/L	MW-2D	11/04/2020		0.1080	0.0743
Barium, Total	mg/L	MW-2D	05/03/2021		0.0378	0.0743
Cadmium, Total	mg/L	MW-7D	04/06/2016		0.0024	0.0020
Cadmium, Total	mg/L	MW-7D	05/25/2016		0.0022	0.0020
Cadmium, Total	mg/L	MW-7D	08/09/2016	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	09/27/2016	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	11/29/2016	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	01/25/2017	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	05/23/2017	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	08/08/2017	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	05/30/2018	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	05/15/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	11/06/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	05/27/2020	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7D	05/06/2021		0.0021	0.0020
Cobalt, Total	mg/L	MW-13D	04/06/2016	ND	0.0100	0.0010
Cobalt, Total	mg/L	MW-13D	05/25/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	08/09/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	09/27/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	11/29/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	01/25/2017	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	05/23/2017	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	08/08/2017	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	05/30/2018	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-13D	05/16/2019	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-13D	11/06/2019	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-13D	05/19/2020	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-13D	11/05/2020	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-13D	05/06/2021		0.0011	0.0010
Cobalt, Total	mg/L	MW-14D	04/07/2016	ND	0.0100	0.0010
Cobalt, Total	mg/L	MW-14D	05/26/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	08/10/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	09/28/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	11/30/2016	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	01/26/2017	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	05/23/2017	ND	0.0050	0.0010

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Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Cobalt, Total	mg/L	MW-14D	08/09/2017	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	05/30/2018	ND	0.0050	0.0010
Cobalt, Total	mg/L	MW-14D	05/15/2019	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-14D	11/07/2019		0.0011 *	0.0010
Cobalt, Total	mg/L	MW-14D	05/26/2020	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-14D	11/05/2020	ND	0.0010	0.0010
Cobalt, Total	mg/L	MW-14D	05/05/2021		0.0012 *	0.0010
Fluoride	mg/L	MW-10D	04/06/2016		1.7000 *	0.1300
Fluoride	mg/L	MW-10D	05/25/2016		2.2000 *	0.1300
Fluoride	mg/L	MW-10D	08/09/2016		2.1000 *	0.1300
Fluoride	mg/L	MW-10D	09/27/2016		2.2000 *	0.1300
Fluoride	mg/L	MW-10D	11/29/2016		2.2000 *	0.1300
Fluoride	mg/L	MW-10D	01/25/2017		2.3000 *	0.1300
Fluoride	mg/L	MW-10D	05/23/2017		2.2000 *	0.1300
Fluoride	mg/L	MW-10D	08/08/2017		2.2000 *	0.1300
Fluoride	mg/L	MW-10D	09/20/2017		2.1000 *	0.1300
Fluoride	mg/L	MW-10D	05/30/2018		2.6000 *	0.1300
Fluoride	mg/L	MW-10D	09/18/2018		2.6000 *	0.1300
Fluoride	mg/L	MW-10D	05/16/2019		2.4000 *	0.1300
Fluoride	mg/L	MW-10D	11/05/2019		2.3000 *	0.1300
Fluoride	mg/L	MW-10D	05/19/2020		2.5000 *	0.1300
Fluoride	mg/L	MW-10D	11/05/2020		2.6000 *	0.1300
Fluoride	mg/L	MW-10D	05/06/2021		2.6000 *	0.1300
Fluoride	mg/L	MW-11D	04/07/2016		0.3800 *	0.1300
Fluoride	mg/L	MW-11D	05/26/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-11D	08/10/2016		0.3100 *	0.1300
Fluoride	mg/L	MW-11D	09/28/2016		0.3000 *	0.1300
Fluoride	mg/L	MW-11D	11/30/2016		0.2900 *	0.1300
Fluoride	mg/L	MW-11D	01/26/2017		0.3100 *	0.1300
Fluoride	mg/L	MW-11D	05/24/2017		0.4300 *	0.1300
Fluoride	mg/L	MW-11D	08/09/2017		0.4500 *	0.1300
Fluoride	mg/L	MW-11D	09/20/2017		0.4800 *	0.1300
Fluoride	mg/L	MW-11D	05/29/2018		0.4500 *	0.1300
Fluoride	mg/L	MW-11D	09/14/2018		0.3100 *	0.1300
Fluoride	mg/L	MW-11D	05/14/2019		0.4700 *	0.1300
Fluoride	mg/L	MW-11D	11/07/2019		0.4100 *	0.1300
Fluoride	mg/L	MW-11D	05/27/2020		0.3700 *	0.1300
Fluoride	mg/L	MW-11D	11/05/2020		0.4300 *	0.1300
Fluoride	mg/L	MW-11D	05/05/2021		0.2500 *	0.1300
Fluoride	mg/L	MW-12D	04/06/2016		0.2200 *	0.1300
Fluoride	mg/L	MW-12D	05/25/2016		0.2700 *	0.1300
Fluoride	mg/L	MW-12D	08/09/2016		0.2800 *	0.1300
Fluoride	mg/L	MW-12D	09/27/2016		0.3100 *	0.1300
Fluoride	mg/L	MW-12D	11/29/2016		0.3800 *	0.1300
Fluoride	mg/L	MW-12D	01/25/2017		0.4900 *	0.1300
Fluoride	mg/L	MW-12D	05/23/2017		0.5000 *	0.1300
Fluoride	mg/L	MW-12D	08/08/2017		0.5300 *	0.1300
Fluoride	mg/L	MW-12D	09/20/2017		0.4400 *	0.1300
Fluoride	mg/L	MW-12D	05/30/2018		1.1000 *	0.1300
Fluoride	mg/L	MW-12D	09/17/2018		0.9500 *	0.1300
Fluoride	mg/L	MW-12D	05/16/2019		1.3000 *	0.1300
Fluoride	mg/L	MW-12D	11/06/2019		1.2000 *	0.1300
Fluoride	mg/L	MW-12D	05/18/2020		1.1000 *	0.1300
Fluoride	mg/L	MW-12D	11/05/2020		0.9700 *	0.1300
Fluoride	mg/L	MW-12D	05/03/2021		1.3000 *	0.1300
Fluoride	mg/L	MW-13D	04/06/2016		0.3900 *	0.1300
Fluoride	mg/L	MW-13D	05/25/2016		0.4000 *	0.1300
Fluoride	mg/L	MW-13D	08/09/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-13D	09/27/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-13D	11/29/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-13D	01/25/2017		0.3700 *	0.1300

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Fluoride	mg/L	MW-13D	05/23/2017		0.3600 *	0.1300
Fluoride	mg/L	MW-13D	08/08/2017		0.4300 *	0.1300
Fluoride	mg/L	MW-13D	09/20/2017		0.4100 *	0.1300
Fluoride	mg/L	MW-13D	05/30/2018		0.4500 *	0.1300
Fluoride	mg/L	MW-13D	09/18/2018		0.4700 *	0.1300
Fluoride	mg/L	MW-13D	05/16/2019		0.4900 *	0.1300
Fluoride	mg/L	MW-13D	11/06/2019		0.4900 *	0.1300
Fluoride	mg/L	MW-13D	05/19/2020		0.5900 *	0.1300
Fluoride	mg/L	MW-13D	11/05/2020		0.6200 *	0.1300
Fluoride	mg/L	MW-13D	05/06/2021		0.6000 *	0.1300
Fluoride	mg/L	MW-14D	04/07/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-14D	05/26/2016		0.3600 *	0.1300
Fluoride	mg/L	MW-14D	08/10/2016		0.3600 *	0.1300
Fluoride	mg/L	MW-14D	09/28/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-14D	11/30/2016		0.3900 *	0.1300
Fluoride	mg/L	MW-14D	01/26/2017		0.3100 *	0.1300
Fluoride	mg/L	MW-14D	05/23/2017		0.3400 *	0.1300
Fluoride	mg/L	MW-14D	08/09/2017		0.3400 *	0.1300
Fluoride	mg/L	MW-14D	09/20/2017		0.3400 *	0.1300
Fluoride	mg/L	MW-14D	05/30/2018		0.3200 *	0.1300
Fluoride	mg/L	MW-14D	09/17/2018		0.2300 *	0.1300
Fluoride	mg/L	MW-14D	05/15/2019		0.2800 *	0.1300
Fluoride	mg/L	MW-14D	11/07/2019		0.2100 *	0.1300
Fluoride	mg/L	MW-14D	05/26/2020	ND	0.1000	0.1300
Fluoride	mg/L	MW-14D	11/05/2020		0.2600 *	0.1300
Fluoride	mg/L	MW-14D	05/05/2021	ND	0.1000	0.1300
Fluoride	mg/L	MW-1D	04/07/2016		0.4300 *	0.1300
Fluoride	mg/L	MW-1D	05/26/2016		0.4700 *	0.1300
Fluoride	mg/L	MW-1D	08/09/2016		0.3800 *	0.1300
Fluoride	mg/L	MW-1D	09/27/2016		0.3700 *	0.1300
Fluoride	mg/L	MW-1D	11/29/2016		0.3900 *	0.1300
Fluoride	mg/L	MW-1D	01/26/2017		0.4100 *	0.1300
Fluoride	mg/L	MW-1D	05/23/2017		0.4200 *	0.1300
Fluoride	mg/L	MW-1D	08/09/2017		0.4100 *	0.1300
Fluoride	mg/L	MW-1D	09/20/2017		0.4200 *	0.1300
Fluoride	mg/L	MW-1D	05/29/2018		0.3700 *	0.1300
Fluoride	mg/L	MW-1D	09/17/2018		0.3700 *	0.1300
Fluoride	mg/L	MW-1D	05/15/2019		0.3400 *	0.1300
Fluoride	mg/L	MW-1D	11/07/2019		0.3100 *	0.1300
Fluoride	mg/L	MW-1D	05/26/2020		0.2600 *	0.1300
Fluoride	mg/L	MW-1D	11/06/2020		0.3300 *	0.1300
Fluoride	mg/L	MW-1D	05/05/2021		0.2300 *	0.1300
Fluoride	mg/L	MW-2D	04/05/2016		2.1000 *	0.1300
Fluoride	mg/L	MW-2D	05/24/2016		2.2000 *	0.1300
Fluoride	mg/L	MW-2D	08/08/2016		2.2000 *	0.1300
Fluoride	mg/L	MW-2D	09/26/2016		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	11/28/2016		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	01/24/2017		2.4000 *	0.1300
Fluoride	mg/L	MW-2D	05/22/2017		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	08/07/2017		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	09/20/2017		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	05/29/2018		2.6000 *	0.1300
Fluoride	mg/L	MW-2D	09/17/2018		2.8000 *	0.1300
Fluoride	mg/L	MW-2D	05/15/2019		1.6000 *	0.1300
Fluoride	mg/L	MW-2D	11/05/2019		1.3000 *	0.1300
Fluoride	mg/L	MW-2D	05/19/2020		1.2000 *	0.1300
Fluoride	mg/L	MW-2D	11/04/2020		1.0000 *	0.1300
Fluoride	mg/L	MW-2D	05/03/2021		0.8700 *	0.1300
Fluoride	mg/L	MW-3D	04/05/2016		0.3300 *	0.1300
Fluoride	mg/L	MW-3D	05/25/2016		0.4300 *	0.1300
Fluoride	mg/L	MW-3D	08/08/2016		0.4100 *	0.1300

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-3D	09/26/2016	0.4400 *	0.1300
Fluoride	mg/L	MW-3D	11/28/2016	0.4200 *	0.1300
Fluoride	mg/L	MW-3D	01/24/2017	0.4000 *	0.1300
Fluoride	mg/L	MW-3D	05/22/2017	0.3800 *	0.1300
Fluoride	mg/L	MW-3D	08/07/2017	0.4000 *	0.1300
Fluoride	mg/L	MW-3D	09/20/2017	0.4000 *	0.1300
Fluoride	mg/L	MW-3D	05/29/2018	0.2900 *	0.1300
Fluoride	mg/L	MW-3D	09/17/2018	0.2800 *	0.1300
Fluoride	mg/L	MW-3D	05/15/2019	0.2400 *	0.1300
Fluoride	mg/L	MW-3D	11/06/2019	0.2100 *	0.1300
Fluoride	mg/L	MW-3D	05/18/2020	0.2300 *	0.1300
Fluoride	mg/L	MW-3D	11/03/2020	0.2000 *	0.1300
Fluoride	mg/L	MW-3D	05/03/2021	0.1800 *	0.1300
Fluoride	mg/L	MW-7D	04/06/2016	0.2800 *	0.1300
Fluoride	mg/L	MW-7D	05/25/2016	0.3300 *	0.1300
Fluoride	mg/L	MW-7D	08/09/2016	0.3100 *	0.1300
Fluoride	mg/L	MW-7D	09/27/2016	0.3100 *	0.1300
Fluoride	mg/L	MW-7D	11/29/2016	0.3000 *	0.1300
Fluoride	mg/L	MW-7D	01/25/2017	0.2600 *	0.1300
Fluoride	mg/L	MW-7D	05/23/2017	0.2500 *	0.1300
Fluoride	mg/L	MW-7D	08/08/2017	0.2800 *	0.1300
Fluoride	mg/L	MW-7D	09/20/2017	0.2600 *	0.1300
Fluoride	mg/L	MW-7D	05/30/2018	0.2900 *	0.1300
Fluoride	mg/L	MW-7D	09/18/2018	0.3000 *	0.1300
Fluoride	mg/L	MW-7D	05/15/2019	0.3200 *	0.1300
Fluoride	mg/L	MW-7D	11/06/2019	0.3500 *	0.1300
Fluoride	mg/L	MW-7D	05/27/2020	0.3900 *	0.1300
Fluoride	mg/L	MW-7D	11/17/2020	0.4200 *	0.1300
Fluoride	mg/L	MW-7D	05/06/2021	0.3600 *	0.1300
Fluoride	mg/L	MW-9D	04/06/2016	0.3400 *	0.1300
Fluoride	mg/L	MW-9D	05/25/2016	0.3900 *	0.1300
Fluoride	mg/L	MW-9D	08/08/2016	0.3900 *	0.1300
Fluoride	mg/L	MW-9D	09/27/2016	0.4000 *	0.1300
Fluoride	mg/L	MW-9D	11/29/2016	0.4400 *	0.1300
Fluoride	mg/L	MW-9D	01/25/2017	0.4000 *	0.1300
Fluoride	mg/L	MW-9D	05/23/2017	0.4600 *	0.1300
Fluoride	mg/L	MW-9D	08/08/2017	0.4900 *	0.1300
Fluoride	mg/L	MW-9D	09/20/2017	0.5200 *	0.1300
Fluoride	mg/L	MW-9D	05/30/2018	0.4500 *	0.1300
Fluoride	mg/L	MW-9D	09/17/2018	0.4300 *	0.1300
Fluoride	mg/L	MW-9D	05/16/2019	0.4400 *	0.1300
Fluoride	mg/L	MW-9D	11/06/2019	0.4400 *	0.1300
Fluoride	mg/L	MW-9D	05/19/2020	0.4600 *	0.1300
Fluoride	mg/L	MW-9D	11/04/2020	0.4200 *	0.1300
Fluoride	mg/L	MW-9D	05/03/2021	0.4000 *	0.1300
Fluoride	mg/L	MW-9I	04/06/2016	0.4400 *	0.1300
Fluoride	mg/L	MW-9I	05/25/2016	0.5300 *	0.1300
Fluoride	mg/L	MW-9I	08/08/2016	0.5500 *	0.1300
Fluoride	mg/L	MW-9I	09/27/2016	0.5800 *	0.1300
Fluoride	mg/L	MW-9I	11/28/2016	0.6100 *	0.1300
Fluoride	mg/L	MW-9I	01/25/2017	0.5300 *	0.1300
Fluoride	mg/L	MW-9I	05/23/2017	0.5700 *	0.1300
Fluoride	mg/L	MW-9I	08/08/2017	0.5800 *	0.1300
Fluoride	mg/L	MW-9I	09/20/2017	0.5900 *	0.1300
Fluoride	mg/L	MW-9I	05/30/2018	0.5300 *	0.1300
Fluoride	mg/L	MW-9I	09/17/2018	0.5800 *	0.1300
Fluoride	mg/L	MW-9I	05/16/2019	0.6800 *	0.1300
Fluoride	mg/L	MW-9I	11/06/2019	0.6900 *	0.1300
Fluoride	mg/L	MW-9I	05/19/2020	0.7300 *	0.1300
Fluoride	mg/L	MW-9I	11/04/2020	0.7800 *	0.1300
Fluoride	mg/L	MW-9I	05/03/2021	0.9700 *	0.1300

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-10D	04/06/2016	0.1230 *	0.0200
Lithium, Total	mg/L	MW-10D	05/25/2016	0.1050 *	0.0200
Lithium, Total	mg/L	MW-10D	08/09/2016	0.0963 *	0.0200
Lithium, Total	mg/L	MW-10D	09/27/2016	0.0829 *	0.0200
Lithium, Total	mg/L	MW-10D	11/29/2016	0.0922 *	0.0200
Lithium, Total	mg/L	MW-10D	01/25/2017	0.0920 *	0.0200
Lithium, Total	mg/L	MW-10D	05/23/2017	0.0852 *	0.0200
Lithium, Total	mg/L	MW-10D	08/08/2017	0.0862 *	0.0200
Lithium, Total	mg/L	MW-10D	05/30/2018	0.0633 *	0.0200
Lithium, Total	mg/L	MW-10D	09/18/2018	0.0616 *	0.0200
Lithium, Total	mg/L	MW-10D	05/16/2019	0.0694 *	0.0200
Lithium, Total	mg/L	MW-10D	11/05/2019	0.0616 *	0.0200
Lithium, Total	mg/L	MW-10D	05/19/2020	0.0625 *	0.0200
Lithium, Total	mg/L	MW-10D	11/05/2020	0.0522 *	0.0200
Lithium, Total	mg/L	MW-10D	05/06/2021	0.0498 *	0.0200
Lithium, Total	mg/L	MW-11D	04/07/2016	0.1270 *	0.0200
Lithium, Total	mg/L	MW-11D	05/26/2016	0.1220 *	0.0200
Lithium, Total	mg/L	MW-11D	08/10/2016	0.1320 *	0.0200
Lithium, Total	mg/L	MW-11D	09/28/2016	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	11/30/2016	0.1370 *	0.0200
Lithium, Total	mg/L	MW-11D	01/26/2017	0.1330 *	0.0200
Lithium, Total	mg/L	MW-11D	05/24/2017	0.1090 *	0.0200
Lithium, Total	mg/L	MW-11D	08/09/2017	0.1240 *	0.0200
Lithium, Total	mg/L	MW-11D	05/29/2018	0.1220 *	0.0200
Lithium, Total	mg/L	MW-11D	09/14/2018	0.1260 *	0.0200
Lithium, Total	mg/L	MW-11D	05/14/2019	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	11/07/2019	0.1280 *	0.0200
Lithium, Total	mg/L	MW-11D	05/27/2020	0.1420 *	0.0200
Lithium, Total	mg/L	MW-11D	11/05/2020	0.1340 *	0.0200
Lithium, Total	mg/L	MW-11D	05/05/2021	0.1410 *	0.0200
Lithium, Total	mg/L	MW-12D	04/06/2016	0.1410 *	0.0200
Lithium, Total	mg/L	MW-12D	05/25/2016	0.1520 *	0.0200
Lithium, Total	mg/L	MW-12D	08/09/2016	0.1400 *	0.0200
Lithium, Total	mg/L	MW-12D	09/27/2016	0.1470 *	0.0200
Lithium, Total	mg/L	MW-12D	11/29/2016	0.1400 *	0.0200
Lithium, Total	mg/L	MW-12D	01/25/2017	0.1660 *	0.0200
Lithium, Total	mg/L	MW-12D	05/23/2017	0.1290 *	0.0200
Lithium, Total	mg/L	MW-12D	08/08/2017	0.1510 *	0.0200
Lithium, Total	mg/L	MW-12D	05/30/2018	0.1180 *	0.0200
Lithium, Total	mg/L	MW-12D	09/17/2018	0.1220 *	0.0200
Lithium, Total	mg/L	MW-12D	05/16/2019	0.1040 *	0.0200
Lithium, Total	mg/L	MW-12D	11/06/2019	0.1040 *	0.0200
Lithium, Total	mg/L	MW-12D	05/18/2020	0.1130 *	0.0200
Lithium, Total	mg/L	MW-12D	11/05/2020	0.1080 *	0.0200
Lithium, Total	mg/L	MW-12D	05/03/2021	0.0696 *	0.0200
Lithium, Total	mg/L	MW-13D	04/06/2016	0.0876 *	0.0200
Lithium, Total	mg/L	MW-13D	05/25/2016	0.0998 *	0.0200
Lithium, Total	mg/L	MW-13D	08/09/2016	0.1120 *	0.0200
Lithium, Total	mg/L	MW-13D	09/27/2016	0.1330 *	0.0200
Lithium, Total	mg/L	MW-13D	11/29/2016	0.1760 *	0.0200
Lithium, Total	mg/L	MW-13D	01/25/2017	0.1900 *	0.0200
Lithium, Total	mg/L	MW-13D	05/23/2017	0.1540 *	0.0200
Lithium, Total	mg/L	MW-13D	08/08/2017	0.1280 *	0.0200
Lithium, Total	mg/L	MW-13D	05/30/2018	0.1120 *	0.0200
Lithium, Total	mg/L	MW-13D	09/18/2018	0.1010 *	0.0200
Lithium, Total	mg/L	MW-13D	05/16/2019	0.1050 *	0.0200
Lithium, Total	mg/L	MW-13D	11/06/2019	0.0850 *	0.0200
Lithium, Total	mg/L	MW-13D	05/19/2020	0.0968 *	0.0200
Lithium, Total	mg/L	MW-13D	11/05/2020	0.0796 *	0.0200
Lithium, Total	mg/L	MW-13D	05/06/2021	0.0727 *	0.0200
Lithium, Total	mg/L	MW-14D	04/07/2016	0.5260 *	0.0200

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Lithium, Total	mg/L	MW-14D	05/26/2016		0.6200 *	0.0200
Lithium, Total	mg/L	MW-14D	08/10/2016		0.3580 *	0.0200
Lithium, Total	mg/L	MW-14D	09/28/2016		0.3550 *	0.0200
Lithium, Total	mg/L	MW-14D	11/30/2016		0.3520 *	0.0200
Lithium, Total	mg/L	MW-14D	01/26/2017		0.5200 *	0.0200
Lithium, Total	mg/L	MW-14D	05/23/2017		0.6620 *	0.0200
Lithium, Total	mg/L	MW-14D	08/09/2017		0.5410 *	0.0200
Lithium, Total	mg/L	MW-14D	05/30/2018		0.6640 *	0.0200
Lithium, Total	mg/L	MW-14D	09/17/2018		0.6100 *	0.0200
Lithium, Total	mg/L	MW-14D	05/15/2019		0.5670 *	0.0200
Lithium, Total	mg/L	MW-14D	11/07/2019		0.4790 *	0.0200
Lithium, Total	mg/L	MW-14D	05/26/2020		0.8200 *	0.0200
Lithium, Total	mg/L	MW-14D	11/05/2020		0.4450 *	0.0200
Lithium, Total	mg/L	MW-14D	05/05/2021		0.8090 *	0.0200
Lithium, Total	mg/L	MW-1D	04/07/2016		0.0876 *	0.0200
Lithium, Total	mg/L	MW-1D	05/26/2016		0.0860 *	0.0200
Lithium, Total	mg/L	MW-1D	08/09/2016		0.0844 *	0.0200
Lithium, Total	mg/L	MW-1D	09/27/2016		0.0682 *	0.0200
Lithium, Total	mg/L	MW-1D	11/29/2016		0.0708 *	0.0200
Lithium, Total	mg/L	MW-1D	01/26/2017		0.0607 *	0.0200
Lithium, Total	mg/L	MW-1D	05/23/2017		0.0548 *	0.0200
Lithium, Total	mg/L	MW-1D	08/09/2017		0.0574 *	0.0200
Lithium, Total	mg/L	MW-1D	05/29/2018		0.0385 *	0.0200
Lithium, Total	mg/L	MW-1D	09/17/2018		0.0312 *	0.0200
Lithium, Total	mg/L	MW-1D	05/15/2019		0.0534 *	0.0200
Lithium, Total	mg/L	MW-1D	11/07/2019		0.0293 *	0.0200
Lithium, Total	mg/L	MW-1D	05/26/2020		0.0377 *	0.0200
Lithium, Total	mg/L	MW-1D	11/06/2020	ND	0.0200	0.0200
Lithium, Total	mg/L	MW-1D	05/05/2021		0.0236 *	0.0200
Lithium, Total	mg/L	MW-2D	04/05/2016		0.1080 *	0.0200
Lithium, Total	mg/L	MW-2D	05/24/2016		0.1050 *	0.0200
Lithium, Total	mg/L	MW-2D	08/08/2016		0.1030 *	0.0200
Lithium, Total	mg/L	MW-2D	09/26/2016		0.0778 *	0.0200
Lithium, Total	mg/L	MW-2D	11/28/2016		0.0912 *	0.0200
Lithium, Total	mg/L	MW-2D	01/24/2017		0.0902 *	0.0200
Lithium, Total	mg/L	MW-2D	05/22/2017		0.0733 *	0.0200
Lithium, Total	mg/L	MW-2D	08/07/2017		0.0878 *	0.0200
Lithium, Total	mg/L	MW-2D	05/29/2018		0.0367 *	0.0200
Lithium, Total	mg/L	MW-2D	09/17/2018		0.0321 *	0.0200
Lithium, Total	mg/L	MW-2D	05/15/2019		0.0452 *	0.0200
Lithium, Total	mg/L	MW-2D	11/05/2019		0.0650 *	0.0200
Lithium, Total	mg/L	MW-2D	05/19/2020		0.0428 *	0.0200
Lithium, Total	mg/L	MW-2D	11/04/2020		0.0554 *	0.0200
Lithium, Total	mg/L	MW-2D	05/03/2021		0.0403 *	0.0200
Lithium, Total	mg/L	MW-7D	04/06/2016		0.1500 *	0.0200
Lithium, Total	mg/L	MW-7D	05/25/2016		0.1320 *	0.0200
Lithium, Total	mg/L	MW-7D	08/09/2016		0.1200 *	0.0200
Lithium, Total	mg/L	MW-7D	09/27/2016		0.1070 *	0.0200
Lithium, Total	mg/L	MW-7D	11/29/2016		0.1270 *	0.0200
Lithium, Total	mg/L	MW-7D	01/25/2017		0.1500 *	0.0200
Lithium, Total	mg/L	MW-7D	05/23/2017		0.1360 *	0.0200
Lithium, Total	mg/L	MW-7D	08/08/2017		0.1520 *	0.0200
Lithium, Total	mg/L	MW-7D	05/30/2018		0.1200 *	0.0200
Lithium, Total	mg/L	MW-7D	09/18/2018		0.1100 *	0.0200
Lithium, Total	mg/L	MW-7D	05/15/2019		0.1250 *	0.0200
Lithium, Total	mg/L	MW-7D	11/06/2019		0.0955 *	0.0200
Lithium, Total	mg/L	MW-7D	05/27/2020		0.1040 *	0.0200
Lithium, Total	mg/L	MW-7D	11/17/2020		0.0917 *	0.0200
Lithium, Total	mg/L	MW-7D	05/06/2021		0.0969 *	0.0200
Lithium, Total	mg/L	MW-9D	04/06/2016		0.1460 *	0.0200
Lithium, Total	mg/L	MW-9D	05/25/2016		0.1340 *	0.0200

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	mg/L	MW-9D	08/08/2016	0.1230 *	0.0200
Lithium, Total	mg/L	MW-9D	09/27/2016	0.1020 *	0.0200
Lithium, Total	mg/L	MW-9D	11/29/2016	0.1190 *	0.0200
Lithium, Total	mg/L	MW-9D	01/25/2017	0.1090 *	0.0200
Lithium, Total	mg/L	MW-9D	05/23/2017	0.0719 *	0.0200
Lithium, Total	mg/L	MW-9D	08/08/2017	0.0659 *	0.0200
Lithium, Total	mg/L	MW-9D	05/30/2018	0.0482 *	0.0200
Lithium, Total	mg/L	MW-9D	09/17/2018	0.0435 *	0.0200
Lithium, Total	mg/L	MW-9D	05/16/2019	0.0444 *	0.0200
Lithium, Total	mg/L	MW-9D	11/06/2019	0.0336 *	0.0200
Lithium, Total	mg/L	MW-9D	05/19/2020	0.0321 *	0.0200
Lithium, Total	mg/L	MW-9D	11/04/2020	0.0252 *	0.0200
Lithium, Total	mg/L	MW-9D	05/03/2021	0.0250 *	0.0200
Lithium, Total	mg/L	MW-9I	04/06/2016	0.1040 *	0.0200
Lithium, Total	mg/L	MW-9I	05/25/2016	0.0796 *	0.0200
Lithium, Total	mg/L	MW-9I	08/08/2016	0.0686 *	0.0200
Lithium, Total	mg/L	MW-9I	09/27/2016	0.0583 *	0.0200
Lithium, Total	mg/L	MW-9I	11/28/2016	0.0623 *	0.0200
Lithium, Total	mg/L	MW-9I	01/25/2017	0.0596 *	0.0200
Lithium, Total	mg/L	MW-9I	05/23/2017	0.0515 *	0.0200
Lithium, Total	mg/L	MW-9I	08/08/2017	0.0563 *	0.0200
Lithium, Total	mg/L	MW-9I	05/30/2018	0.0354 *	0.0200
Lithium, Total	mg/L	MW-9I	09/17/2018	0.0370 *	0.0200
Lithium, Total	mg/L	MW-9I	05/16/2019	0.0384 *	0.0200
Lithium, Total	mg/L	MW-9I	11/06/2019	0.0302 *	0.0200
Lithium, Total	mg/L	MW-9I	05/19/2020	0.0306 *	0.0200
Lithium, Total	mg/L	MW-9I	11/04/2020	0.0233 *	0.0200
Lithium, Total	mg/L	MW-9I	05/03/2021	0.0305 *	0.0200
Molybdenum, Total	mg/L	MW-10D	04/06/2016	0.2640 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/25/2016	0.2880 *	0.0100
Molybdenum, Total	mg/L	MW-10D	08/09/2016	0.2900 *	0.0100
Molybdenum, Total	mg/L	MW-10D	09/27/2016	0.2590 *	0.0100
Molybdenum, Total	mg/L	MW-10D	11/29/2016	0.2740 *	0.0100
Molybdenum, Total	mg/L	MW-10D	01/25/2017	0.2510 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/23/2017	0.2350 *	0.0100
Molybdenum, Total	mg/L	MW-10D	08/08/2017	0.2200 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/30/2018	0.1680 *	0.0100
Molybdenum, Total	mg/L	MW-10D	09/18/2018	0.1410 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/16/2019	0.0990 *	0.0100
Molybdenum, Total	mg/L	MW-10D	11/05/2019	0.0765 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/19/2020	0.0728 *	0.0100
Molybdenum, Total	mg/L	MW-10D	11/05/2020	0.0886 *	0.0100
Molybdenum, Total	mg/L	MW-10D	05/06/2021	0.0972 *	0.0100
Molybdenum, Total	mg/L	MW-12D	04/06/2016	0.2860 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/25/2016	0.2570 *	0.0100
Molybdenum, Total	mg/L	MW-12D	08/09/2016	0.2700 *	0.0100
Molybdenum, Total	mg/L	MW-12D	09/27/2016	0.2740 *	0.0100
Molybdenum, Total	mg/L	MW-12D	11/29/2016	0.2490 *	0.0100
Molybdenum, Total	mg/L	MW-12D	01/25/2017	0.2540 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/23/2017	0.2140 *	0.0100
Molybdenum, Total	mg/L	MW-12D	08/08/2017	0.2320 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/30/2018	0.2320 *	0.0100
Molybdenum, Total	mg/L	MW-12D	09/17/2018	0.2390 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/16/2019	0.2190 *	0.0100
Molybdenum, Total	mg/L	MW-12D	11/06/2019	0.2180 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/18/2020	0.2270 *	0.0100
Molybdenum, Total	mg/L	MW-12D	11/05/2020	0.2000 *	0.0100
Molybdenum, Total	mg/L	MW-12D	05/03/2021	0.1730 *	0.0100
Molybdenum, Total	mg/L	MW-13D	04/06/2016	0.6460 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/25/2016	0.5750 *	0.0100
Molybdenum, Total	mg/L	MW-13D	08/09/2016	0.6710 *	0.0100

* - Significantly increased over background.
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 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-13D	09/27/2016	0.6470 *	0.0100
Molybdenum, Total	mg/L	MW-13D	11/29/2016	0.6950 *	0.0100
Molybdenum, Total	mg/L	MW-13D	01/25/2017	0.7040 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/23/2017	0.6670 *	0.0100
Molybdenum, Total	mg/L	MW-13D	08/08/2017	0.6510 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/30/2018	0.9220 *	0.0100
Molybdenum, Total	mg/L	MW-13D	09/18/2018	0.8570 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/16/2019	1.0900 *	0.0100
Molybdenum, Total	mg/L	MW-13D	11/06/2019	0.8800 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/19/2020	0.8810 *	0.0100
Molybdenum, Total	mg/L	MW-13D	11/05/2020	0.8590 *	0.0100
Molybdenum, Total	mg/L	MW-13D	05/06/2021	0.7620 *	0.0100
Molybdenum, Total	mg/L	MW-14D	04/07/2016	0.2000 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/26/2016	0.1870 *	0.0100
Molybdenum, Total	mg/L	MW-14D	08/10/2016	0.2540 *	0.0100
Molybdenum, Total	mg/L	MW-14D	09/28/2016	0.2420 *	0.0100
Molybdenum, Total	mg/L	MW-14D	11/30/2016	0.2450 *	0.0100
Molybdenum, Total	mg/L	MW-14D	01/26/2017	0.2190 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/23/2017	0.2240 *	0.0100
Molybdenum, Total	mg/L	MW-14D	08/09/2017	0.2000 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/30/2018	0.1850 *	0.0100
Molybdenum, Total	mg/L	MW-14D	09/17/2018	0.1850 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/15/2019	0.1880 *	0.0100
Molybdenum, Total	mg/L	MW-14D	11/07/2019	0.2670 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/26/2020	0.1870 *	0.0100
Molybdenum, Total	mg/L	MW-14D	11/05/2020	0.2590 *	0.0100
Molybdenum, Total	mg/L	MW-14D	05/05/2021	0.2180 *	0.0100
Molybdenum, Total	mg/L	MW-1D	04/07/2016	0.2340 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/26/2016	0.2050 *	0.0100
Molybdenum, Total	mg/L	MW-1D	08/09/2016	0.1590 *	0.0100
Molybdenum, Total	mg/L	MW-1D	09/27/2016	0.1300 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/29/2016	0.1280 *	0.0100
Molybdenum, Total	mg/L	MW-1D	01/26/2017	0.1210 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/23/2017	0.0970 *	0.0100
Molybdenum, Total	mg/L	MW-1D	08/09/2017	0.0762 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/29/2018	0.0635 *	0.0100
Molybdenum, Total	mg/L	MW-1D	09/17/2018	0.0512 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/15/2019	0.0545 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/07/2019	0.0478 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/26/2020	0.0449 *	0.0100
Molybdenum, Total	mg/L	MW-1D	11/06/2020	0.0346 *	0.0100
Molybdenum, Total	mg/L	MW-1D	05/05/2021	0.0398 *	0.0100
Molybdenum, Total	mg/L	MW-2D	04/05/2016	0.2890 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/24/2016	0.2860 *	0.0100
Molybdenum, Total	mg/L	MW-2D	08/08/2016	0.2730 *	0.0100
Molybdenum, Total	mg/L	MW-2D	09/26/2016	0.2560 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/28/2016	0.2790 *	0.0100
Molybdenum, Total	mg/L	MW-2D	01/24/2017	0.2620 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/22/2017	0.2630 *	0.0100
Molybdenum, Total	mg/L	MW-2D	08/07/2017	0.2410 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/29/2018	0.2500 *	0.0100
Molybdenum, Total	mg/L	MW-2D	09/17/2018	0.1940 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/15/2019	0.1060 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/05/2019	0.0796 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/19/2020	0.0893 *	0.0100
Molybdenum, Total	mg/L	MW-2D	11/04/2020	0.0769 *	0.0100
Molybdenum, Total	mg/L	MW-2D	05/03/2021	0.0563 *	0.0100
Molybdenum, Total	mg/L	MW-7D	04/06/2016	0.4230 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/25/2016	0.4450 *	0.0100
Molybdenum, Total	mg/L	MW-7D	08/09/2016	0.4600 *	0.0100
Molybdenum, Total	mg/L	MW-7D	09/27/2016	0.4480 *	0.0100

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	mg/L	MW-7D	11/29/2016	0.4880 *	0.0100
Molybdenum, Total	mg/L	MW-7D	01/25/2017	0.4610 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/23/2017	0.4410 *	0.0100
Molybdenum, Total	mg/L	MW-7D	08/08/2017	0.4550 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/30/2018	0.5440 *	0.0100
Molybdenum, Total	mg/L	MW-7D	09/18/2018	0.5740 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/15/2019	0.6160 *	0.0100
Molybdenum, Total	mg/L	MW-7D	11/06/2019	0.6170 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/27/2020	0.7360 *	0.0100
Molybdenum, Total	mg/L	MW-7D	11/17/2020	0.6970 *	0.0100
Molybdenum, Total	mg/L	MW-7D	05/06/2021	0.7040 *	0.0100
Molybdenum, Total	mg/L	MW-9D	04/06/2016	0.1300 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/25/2016	0.1320 *	0.0100
Molybdenum, Total	mg/L	MW-9D	08/08/2016	0.1280 *	0.0100
Molybdenum, Total	mg/L	MW-9D	09/27/2016	0.1220 *	0.0100
Molybdenum, Total	mg/L	MW-9D	11/29/2016	0.1400 *	0.0100
Molybdenum, Total	mg/L	MW-9D	01/25/2017	0.1430 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/23/2017	0.1240 *	0.0100
Molybdenum, Total	mg/L	MW-9D	08/08/2017	0.0960 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/30/2018	0.1090 *	0.0100
Molybdenum, Total	mg/L	MW-9D	09/17/2018	0.0855 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/16/2019	0.0504 *	0.0100
Molybdenum, Total	mg/L	MW-9D	11/06/2019	0.0533 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/19/2020	0.0555 *	0.0100
Molybdenum, Total	mg/L	MW-9D	11/04/2020	0.0452 *	0.0100
Molybdenum, Total	mg/L	MW-9D	05/03/2021	0.0496 *	0.0100
Molybdenum, Total	mg/L	MW-9I	04/06/2016	0.2140 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/25/2016	0.2180 *	0.0100
Molybdenum, Total	mg/L	MW-9I	08/08/2016	0.2010 *	0.0100
Molybdenum, Total	mg/L	MW-9I	09/27/2016	0.1910 *	0.0100
Molybdenum, Total	mg/L	MW-9I	11/28/2016	0.1890 *	0.0100
Molybdenum, Total	mg/L	MW-9I	01/25/2017	0.1570 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/23/2017	0.1300 *	0.0100
Molybdenum, Total	mg/L	MW-9I	08/08/2017	0.1150 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/30/2018	0.1250 *	0.0100
Molybdenum, Total	mg/L	MW-9I	09/17/2018	0.1100 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/16/2019	0.0968 *	0.0100
Molybdenum, Total	mg/L	MW-9I	11/06/2019	0.0912 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/19/2020	0.0959 *	0.0100
Molybdenum, Total	mg/L	MW-9I	11/04/2020	0.0892 *	0.0100
Molybdenum, Total	mg/L	MW-9I	05/03/2021	0.1340 *	0.0100
Total Radium	pCi/L	MW-1D	04/07/2016	2.0000	2.3911
Total Radium	pCi/L	MW-1D	05/26/2016	1.5200	2.3911
Total Radium	pCi/L	MW-1D	08/09/2016	1.0900	2.3911
Total Radium	pCi/L	MW-1D	09/27/2016	2.4100 *	2.3911
Total Radium	pCi/L	MW-1D	11/29/2016	0.9310	2.3911
Total Radium	pCi/L	MW-1D	01/26/2017	1.9400	2.3911
Total Radium	pCi/L	MW-1D	05/23/2017	0.9140	2.3911
Total Radium	pCi/L	MW-1D	08/09/2017	1.5800	2.3911
Total Radium	pCi/L	MW-1D	05/29/2018	2.3000	2.3911
Total Radium	pCi/L	MW-1D	09/17/2018	1.4400	2.3911
Total Radium	pCi/L	MW-1D	05/15/2019	0.9340	2.3911
Total Radium	pCi/L	MW-1D	11/07/2019	1.4100	2.3911
Total Radium	pCi/L	MW-1D	05/26/2020	1.1700	2.3911
Total Radium	pCi/L	MW-1D	11/06/2020	3.3300 *	2.3911
Total Radium	pCi/L	MW-1D	05/05/2021	1.9900	2.3911
Total Radium	pCi/L	MW-2D	04/05/2016	1.4500	2.3911
Total Radium	pCi/L	MW-2D	05/24/2016	1.5300	2.3911
Total Radium	pCi/L	MW-2D	08/08/2016	1.1600	2.3911
Total Radium	pCi/L	MW-2D	09/26/2016	1.6300	2.3911
Total Radium	pCi/L	MW-2D	11/28/2016	0.7300	2.3911

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table 7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-2D	01/24/2017		1.2900	2.3911
Total Radium	pCi/L	MW-2D	05/22/2017		1.4200	2.3911
Total Radium	pCi/L	MW-2D	08/07/2017		1.3700	2.3911
Total Radium	pCi/L	MW-2D	05/29/2018	ND	1.9000	2.3911
Total Radium	pCi/L	MW-2D	09/17/2018		1.8800	2.3911
Total Radium	pCi/L	MW-2D	05/15/2019		1.8900	2.3911
Total Radium	pCi/L	MW-2D	11/05/2019		3.1500 *	2.3911
Total Radium	pCi/L	MW-2D	05/19/2020		1.8200	2.3911
Total Radium	pCi/L	MW-2D	11/04/2020		3.9600 *	2.3911
Total Radium	pCi/L	MW-2D	05/03/2021		1.8400	2.3911
Total Radium	pCi/L	MW-9I	04/06/2016		0.7970	2.3911
Total Radium	pCi/L	MW-9I	05/25/2016		1.7100	2.3911
Total Radium	pCi/L	MW-9I	08/08/2016		0.5920	2.3911
Total Radium	pCi/L	MW-9I	09/27/2016		1.6900	2.3911
Total Radium	pCi/L	MW-9I	11/28/2016		1.6500	2.3911
Total Radium	pCi/L	MW-9I	01/25/2017	ND	1.7100	2.3911
Total Radium	pCi/L	MW-9I	05/23/2017		1.7700	2.3911
Total Radium	pCi/L	MW-9I	08/08/2017		0.8510	2.3911
Total Radium	pCi/L	MW-9I	05/30/2018		2.0400	2.3911
Total Radium	pCi/L	MW-9I	09/17/2018		2.6600 *	2.3911
Total Radium	pCi/L	MW-9I	05/16/2019		1.7300	2.3911
Total Radium	pCi/L	MW-9I	11/06/2019	ND	1.1900	2.3911
Total Radium	pCi/L	MW-9I	05/19/2020		1.2700	2.3911
Total Radium	pCi/L	MW-9I	11/04/2020		2.4200 *	2.3911
Total Radium	pCi/L	MW-9I	05/03/2021	ND	2.2000	2.3911

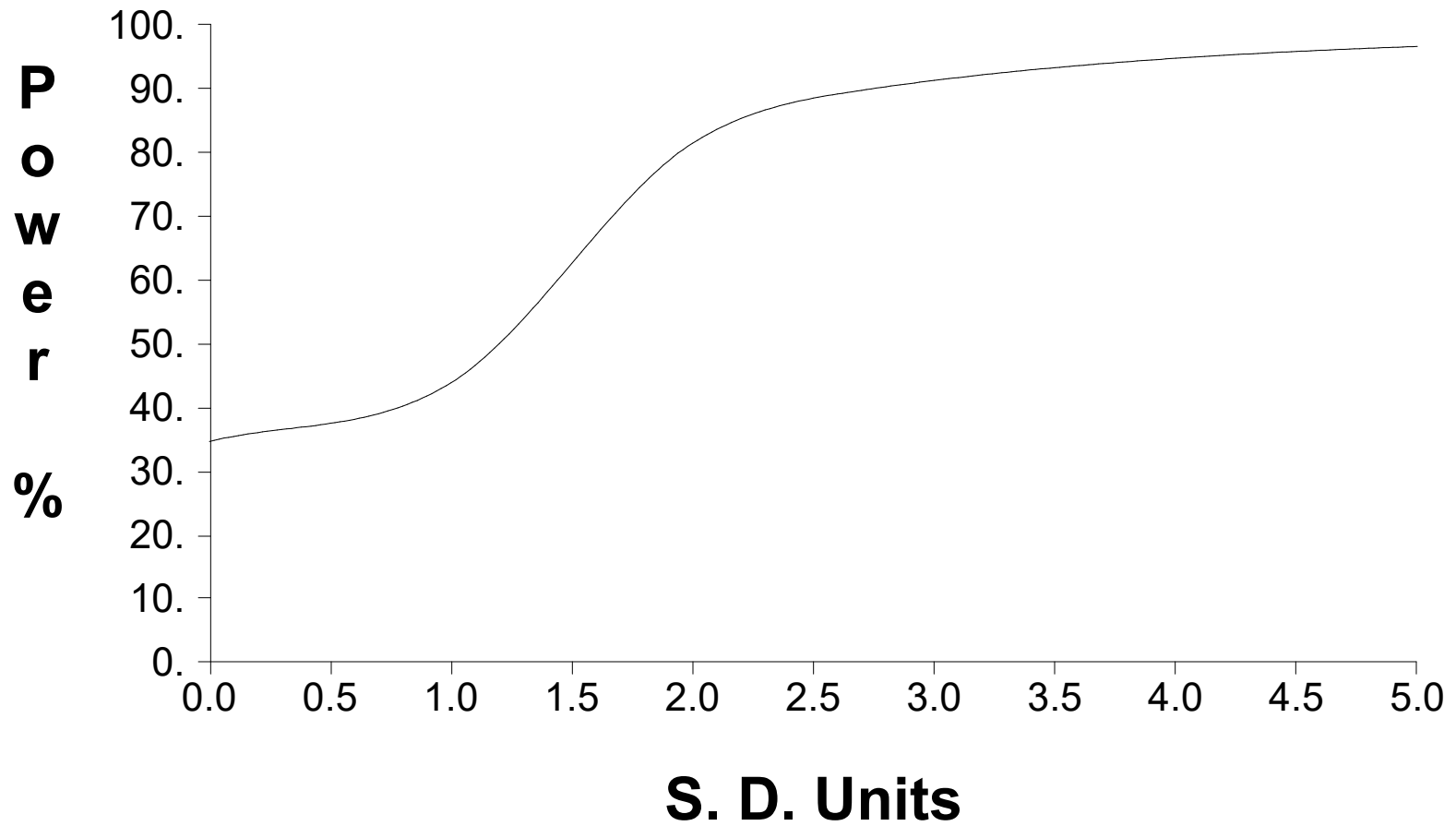
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



**Attachment C: Statistical Analyses – 95% Lower Confidence Limit
Documentation**

November 2020

Table 1: 95% LCL Compared to GWPS - Shallow Zone
Multiunit Ash Pond System
Indianapolis Power and Light Company
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF00872

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through November 2020)	1	1	92.3	0.2	2	10	1	0.2567	10	20	2	10	4	1	2.5586
MW-1S	September 2018	2	0	7	2	1	5	2	0.593	5	7	1	46	5	1	0.896
	May 2019	2	0	3	2	1	5	2	0.519	5	7	1	41	5	1	0.648
	November 2019	1	0	33	2	1	5	2	0.425	5	5	1	32	5	1	1.431
	May 2020	1	6	51	2	1	5	2	0.343	5	5	1	29	5	1	0.304
	November 2020	2	3	54	2	1	5	2	0.326	5	5	1	22	5	1	0.508
MW-2S	September 2018	3	14	80	2	1	5	2	1.186	5	17	1	71	5	1	1.152
	May 2019	3	12	81	2	1	5	2	0.895	5	1	1	35	5	1	0.973
	November 2019	3	12	64	2	1	5	2	0.587	5	13	1	25	5	1	1.000
	May 2020	3	10	62	2	1	5	2	0.363	5	7	1	14	5	1	0.990
	November 2020	3	9	82	2	1	5	1	0.298	5	7	1	28	5	1	1.106
MW-3S	September 2018	8	2	24	2	1	5	2	0.349	5	10	1	52	4	1	0.491
	May 2019	7	2	25	2	1	5	2	0.217	5	10	1	41	0	1	0.549
	November 2019	8	1	28	2	1	5	2	0.197	5	10	1	34	0	1	0.615
	May 2020	7	2	35	2	1	5	2	0.223	5	10	1	41	1	1	0.615
	November 2020	7	1	36	2	1	5	2	0.214	5	10	1	39	0	1	0.733
MW-4S	September 2018	3	5	52	2	1	5	2	0.108	5	6	1	5	6	1	0.721
	May 2019	3	5	47	2	1	5	2	0.108	5	6	1	5	5	1	0.601
	November 2019	3	5	47	2	1	5	2	0.108	5	6	1	5	5	1	0.601
	May 2020	3	2	48	2	1	5	2	0.060	5	10	1	5	2	1	0.812
	November 2020	3	2	62	2	1	5	1	0.037	5	10	1	5	10	1	0.838
MW-5S	September 2018	3	5	24	2	1	5	2	2.65	5	53	1	249	5	1	1.047
	May 2019	3	5	25	2	1	5	1	2.391	5	53	1	227	5	1	1.073
	November 2019	3	5	25	2	1	5	1	2.391	5	53	1	227	5	1	1.073
	May 2020	3	5	28	2	1	5	1	2.316	5	53	1	217	5	1	0.942
	November 2020	3	5	25	2	1	5	1	2.184	5	43	1	186	5	1	0.880
MW-6S	September 2018	3	11	72	2	1	5	2	0.919	5	60	1	137	2	1	0.553
	May 2019	1	11	82	2	1	5	2	0.600	5	55	1	79	1	1	0.662
	November 2019	1	11	82	2	1	5	2	0.600	5	55	1	79	1	1	0.662
	May 2020	1	10	103	2	1	5	2	0.614	5	55	1	79	1	1	0.846
	November 2020	1	8	105	2	1	5	2	0.610	5	49	1	74	1	1	0.700
MW-7S	September 2018	3	324	38	2	1	5	2	0.395	5	92	1	410	5	1	1.138
	May 2019	3	319	34	2	1	5	1	0.391	5	90	1	438	5	1	1.180
	November 2019	3	309	35	2	1	5	1	0.419	5	89	1	508	5	1	1.272
	May 2020	3	306	33	2	1	5	1	0.431	5	84	1	509	5	1	1.080
	November 2020	3	337	32	2	1	5	1	0.461	5	82	1	571	5	1	0.979
MW-8S	September 2018	3	5	18	2	1	5	2	0.066	5	72	1	133	5	1	0.702
	May 2019	3	5	35	2	1	5	2	0.066	5	82	1	171	2	1	0.702
	November 2019	3	5	36	2	1	5	2	0.062	5	118	1	279	2	1	0.620
	May 2020	3	5	36	2	1	5	2	0.056	5	114	1	242	1	1	0.620
	November 2020	3	5	36	2	1	5	2	0.11	5	113	1	279	1	1	0.687

Table 1: 95% LCL Compared to GWPS - Shallow Zone
 Multiunit Ash Pond System
 Indianapolis Power and Light Company
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF00872

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through November 2020)	1	1	92.3	0.2	2	10	1	0.2567	10	20	2	10	4	1	2.5586
MW-9S	September 2018	9	5	41	2	1	5	2	0.05	5	87	1	88	0	1	0.663
	May 2019	8	5	47	2	1	5	2	0.013	5	74	1	83	0	1	0.801
	November 2019	8	5	47	2	1	5	2	0.013	5	74	1	83	0	1	0.801
	May 2020	9	2	49	2	1	5	2	0.013	5	73	1	92	9	1	0.801
	November 2020	7	2	50	2	1	5	2	0.023	5	68	1	69	0	1	0.732
MW-10S	September 2018	3	356	42	2	1	5	2	1.76	5	51	1	108	5	1	1.019
	May 2019	3	321	37	2	1	5	2	1.839	5	50	1	92	5	1	0.965
	November 2019	3	326	41	2	1	5	2	2.051	5	55	1	85	5	1	0.596
	May 2020	3	337	38	2	1	5	1	1.936	5	57	1	80	5	1	0.544
	November 2020	3	340	35	2	1	5	1	1.97	5	51	1	77	5	1	0
MW-11S	September 2018	3	2	40	2	1	0.242	0	1.404	2	0.194	1	72	5	1	1.321
	May 2019	3	1	41	2	1	0	0	1.362	2	0	1	73	5	1	1.068
	November 2019	3	2	54	2	1	2	0	1.366	2	10	1	73	5	1	0.597
	May 2020	3	0	8	1	1	0	0	1.332	1	0	1	71	5	1	0.471
	November 2020	3	0	2	1	1	0	0	1.364	1	0	1	73	5	1	0.589
MW-12S	September 2018	2	13	28	2	1	5	2	0.458	5	102	1	274	5	1	0.889
	May 2019	3	18	26	2	1	5	2	0.879	5	100	1	248	2	1	0.897
	November 2019	3	18	26	2	1	5	2	0.879	5	100	1	248	2	1	0.897
	May 2020	2	27	27	2	1	5	2	1.534	5	97	1	202	2	1	0.897
	November 2020	2	27	28	2	1	5	2	1.534	5	84	1	178	2	1	0.938
MW-13S	September 2018	3	328	24	2	1	5	2	0.647	5	83	1	466	5	1	0.713
	May 2019	3	313	25	2	1	5	2	0.681	5	84	1	547	5	1	0.725
	November 2019	3	312	26	2	1	5	2	0.786	5	75	1	726	5	1	0.732
	May 2020	3	306	25	2	1	5	2	0.779	5	74	1	746	5	1	0.883
	November 2020	3	291	28	2	1	5	2	0.778	5	66	1	720	5	1	0.855

Notes:
 LCL = Lower Confidence Limit
Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.
 ug/L = micrograms per liter (ppb)
 mg/L = milligrams per liter (ppm)
 Std. Units = Standard Units
 *USEPA'S Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities ; effective August 29, 2018.
Table updated to include November 2020 assessment sampling results.

Table 2: 95% LCL Compared to GWPS - Deep Zone
 Multiunit Ash Pond System
 Indianapolis Power and Light Company
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF00872

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through November 2020)	1	1.8	74.3	0.2	2	10	1	0.2464	10	20	2	10	1	1	2.3707
MW-1D	September 2018	3	2	49	2	1	5	2	0.362	5	31	1	49	5	1	0.886
	May 2019	3	4	47	2	1	5	2	0.336	5	31	1	48	5	1	0.900
	November 2019	3	4	48	2	1	5	2	0.314	5	25	1	46	5	1	0.852
	May 2020	3	4	50	2	1	5	2	0.265	5	25	1	45	5	1	0.961
	November 2020	3	0	45	2	1	5	2	0.268	5	11	1	36	5	1	0.421
MW-2D	September 2018	3	2	27	2	1	5	2	2.532	5	35	1	202	5	1	0.958
	May 2019	3	1	39	2	1	5	2	1.763	5	20	1	120	5	1	0.990
	November 2019	3	1	48	2	1	5	2	1.209	5	28	1	65	5	1	0.905
	May 2020	3	2	52	2	1	5	2	0.859	5	30	1	56	5	1	1.427
	November 2020	3	2	63	2	1	5	2	0.981	5	40	1	72	5	1	1.486
MW-3D	September 2018	3	3	61	2	1	5	2	0.264	5	7	1	14	5	1	0.808
	May 2019	3	2	64	2	1	5	2	0.222	5	7	1	5	5	1	0.794
	November 2019	3	2	54	2	1	5	2	0.212	5	6	1	10	5	1	0.482
	May 2020	3	3	46	2	1	5	2	0.205	5	6	1	10	5	1	0.355
	November 2020	3	3	45	2	1	5	2	0.199	5	6	1	6	5	1	0.347
MW-7D	September 2018	3	443	48	2	1	5	2	0.262	5	108	1	426	5	1	1.280
	May 2019	3	438	41	2	1	5	2	0.263	5	106	1	467	5	1	0.777
	November 2019	3	422	42	2	1	5	2	0.284	5	97	1	546	5	1	0.877
	May 2020	3	426	42	2	1	5	2	0.294	5	94	1	554	5	1	0.831
	November 2020	3	405	39	2	1	5	2	0.318	5	87	1	596	5	1	0.687
MW-9D	September 2018	3	3	32	2	1	5	2	0.425	5	41	1	84	5	1	0.803
	May 2019	3	2	36	2	1	5	2	0.412	5	38	1	56	5	1	0.770
	November 2019	3	2	45	2	1	5	2	0.430	5	35	1	42	5	1	0.808
	May 2020	3	2	45	2	1	5	2	0.428	5	31	1	42	5	1	0.822
	November 2020	3	2	44	2	1	5	2	0.421	5	24	1	46	5	1	0.876
MW-9I	September 2018	3	5	30	2	1	5	2	0.538	5	33	1	109	5	1	0.946
	May 2019	3	4	38	2	1	5	2	0.522	5	30	1	98	5	1	0.934
	November 2019	3	4	54	2	1	5	2	0.528	5	31	1	88	5	1	0.738
	May 2020	3	4	53	2	1	5	2	0.595	5	29	1	89	5	1	0.544
	November 2020	3	4	55	2	1	5	2	0.667	5	23	1	89	5	1	0.600
MW-10D	September 2018	3	331	23	2	1	5	2	2.066	5	58	1	139	5	1	1.123
	May 2019	3	295	26	2	1	5	2	2.147	5	57	1	97	5	1	1.048
	November 2019	3	267	28	2	1	5	2	2.299	5	60	1	73	5	1	0.943
	May 2020	3	263	27	2	1	5	2	2.298	5	59	1	60	5	1	0.743
	November 2020	3	254	28	2	1	5	2	2.298	5	53	1	70	5	1	0.779
MW-11D	September 2018	3	13	32	2	1	5	2	0.333	5	111	1	5	5	1	0.912
	May 2019	3	13	31	2	1	5	2	0.334	5	122	1	5	5	1	0.887
	November 2019	3	14	31	2	1	5	2	0.326	5	123	1	5	5	1	0.834
	May 2020	3	14	28	2	1	5	2	0.311	5	122	1	5	5	1	0.782
	November 2020	3	14	27	2	1	5	2	0.371	5	125	1	5	5	1	0.834

Table 2: 95% LCL Compared to GWPS - Deep Zone
 Multiunit Ash Pond System
 Indianapolis Power and Light Company
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF00872

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through November 2020)	1	1.8	74.3	0.2	2	10	1	0.2464	10	20	2	10	1	1	2.3707
MW-12D	September 2018	3	194	24	2	1	5	2	0.379	5	113	1	217	5	1	0.960
	May 2019	3	203	24	2	1	5	2	0.515	5	101	1	221	5	1	0.669
	November 2019	3	208	24	2	1	5	2	0.962	5	101	1	215	5	1	0.794
	May 2020	3	194	24	2	1	5	2	0.962	5	101	1	214	5	1	0.721
	November 2020	3	147	25	2	1	5	2	0.977	5	102	1	203	5	1	0.727
MW-13D	September 2018	3	217	20	2	1	5	2	0.410	5	97	1	614	5	1	1.058
	May 2019	3	209	21	2	1	5	2	0.415	5	97	1	666	5	1	1.366
	November 2019	3	207	20	2	1	5	2	0.452	5	87	1	813	5	1	1.022
	May 2020	3	211	19	2	1	5	2	0.446	5	87	1	799	5	1	0.852
	November 2020	3	216	24	2	1	5	2	0.468	5	78	1	800	5	1	0.866
MW-14D	September 2018	3	113	49	2	1	5	2	0.246	5	551	1	177	5	1	1.154
	May 2019	3	105	46	2	1	5	2	0.235	5	532	1	181	5	1	1.198
	November 2019	3	99	47	2	1	5	1	0.202	5	488	1	159	5	1	1.163
	May 2020	3	104	46	2	1	5	1	0.076	5	449	1	159	5	1	1.302
	November 2020	3	100	46	2	1	5	1	0.077	5	378	1	174	5	1	1.366

Notes:

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

*USEPA'S Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities ; effective August 29, 2018.

Table updated to include November 2020 assessment sampling results.

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	mg/L	MW-10S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-11S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-12S	4	0.003	0.001	1.176	0.002	0.004	0.006		
Antimony, Total	mg/L	MW-13S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-1S	4	0.004	0.002	1.176	0.002	0.006	0.006		
Antimony, Total	mg/L	MW-2S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-3S	4	0.008	0.001	1.176	0.007	0.009	0.006		**
Antimony, Total	mg/L	MW-4S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-5S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-6S	4	0.003	0.001	1.176	0.001	0.004	0.006		
Antimony, Total	mg/L	MW-7S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-8S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9S	4	0.009	0.002	1.176	0.007	0.011	0.006	dec	**
Arsenic, Total	mg/L	MW-10S	4	0.360	0.017	1.176	0.340	0.380	0.010		**
Arsenic, Total	mg/L	MW-11S	4	0.006	0.006	1.176	0.000	0.012	0.010		
Arsenic, Total	mg/L	MW-12S	4	0.045	0.015	1.176	0.027	0.062	0.010	inc	**
Arsenic, Total	mg/L	MW-13S	4	0.355	0.055	1.176	0.291	0.419	0.010		**
Arsenic, Total	mg/L	MW-1S	4	0.024	0.018	1.176	0.003	0.045	0.010		
Arsenic, Total	mg/L	MW-2S	4	0.013	0.003	1.176	0.009	0.017	0.010	dec	
Arsenic, Total	mg/L	MW-3S	4	0.002	0.000	1.176	0.001	0.002	0.010		
Arsenic, Total	mg/L	MW-4S	4	0.004	0.002	1.176	0.002	0.006	0.010		
Arsenic, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-6S	4	0.022	0.012	1.176	0.008	0.037	0.010		
Arsenic, Total	mg/L	MW-7S	4	0.403	0.056	1.176	0.337	0.469	0.010		**
Arsenic, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-9S	4	0.004	0.002	1.176	0.002	0.006	0.010		
Barium, Total	mg/L	MW-10S	4	0.055	0.017	1.176	0.035	0.076	2.000		
Barium, Total	mg/L	MW-11S	4	0.134	0.113	1.176	0.002	0.267	2.000		
Barium, Total	mg/L	MW-12S	4	0.031	0.003	1.176	0.028	0.035	2.000	dec	
Barium, Total	mg/L	MW-13S	4	0.032	0.003	1.176	0.028	0.036	2.000		
Barium, Total	mg/L	MW-1S	4	0.096	0.036	1.176	0.054	0.139	2.000		
Barium, Total	mg/L	MW-2S	4	0.135	0.045	1.176	0.082	0.188	2.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Barium, Total	mg/L	MW-3S	4	0.044	0.007	1.176	0.036	0.052	2.000	
Barium, Total	mg/L	MW-4S	4	0.088	0.022	1.176	0.062	0.114	2.000	
Barium, Total	mg/L	MW-5S	4	0.028	0.002	1.176	0.025	0.031	2.000	
Barium, Total	mg/L	MW-6S	4	0.124	0.016	1.176	0.105	0.143	2.000	
Barium, Total	mg/L	MW-7S	4	0.040	0.007	1.176	0.032	0.048	2.000	dec
Barium, Total	mg/L	MW-8S	4	0.038	0.001	1.176	0.036	0.039	2.000	
Barium, Total	mg/L	MW-9S	4	0.053	0.002	1.176	0.050	0.055	2.000	inc
Beryllium, Total	mg/L	MW-10S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-11S	4	0.002	0.001	1.176	0.001	0.002	0.004	
Beryllium, Total	mg/L	MW-12S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-13S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-1S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-2S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-3S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-4S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-5S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-6S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-7S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-8S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-9S	4	0.002	0.000	1.176	0.002	0.002	0.004	
Cadmium, Total	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.005	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Cadmium, Total	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.005	
Chromium, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-11S	4	0.012	0.015	1.176	0.000	0.029	0.100	
Chromium, Total	mg/L	MW-12S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-9S	4	0.005	0.000	1.176	0.005	0.005	0.100	
Cobalt, Total	mg/L	MW-10S	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-11S	4	0.005	0.004	1.176	0.000	0.009	0.006	
Cobalt, Total	mg/L	MW-12S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-13S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-1S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-2S	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-3S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-4S	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-5S	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-6S	4	0.002	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-7S	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-8S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-9S	4	0.003	0.000	1.176	0.002	0.003	0.006	
Fluoride	mg/L	MW-10S	4	2.250	0.238	1.176	1.970	2.530	4.000	
Fluoride	mg/L	MW-11S	4	1.500	0.115	1.176	1.364	1.636	4.000	
Fluoride	mg/L	MW-12S	4	1.700	0.141	1.176	1.534	1.866	4.000	inc
Fluoride	mg/L	MW-13S	4	0.870	0.078	1.176	0.778	0.962	4.000	inc
Fluoride	mg/L	MW-1S	4	0.408	0.069	1.176	0.326	0.489	4.000	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Fluoride	mg/L	MW-2S	4	0.630	0.282	1.176	0.298	0.962	4.000		
Fluoride	mg/L	MW-3S	4	0.245	0.026	1.176	0.214	0.276	4.000	dec	
Fluoride	mg/L	MW-4S	4	0.085	0.040	1.176	0.037	0.133	4.000		
Fluoride	mg/L	MW-5S	4	2.550	0.311	1.176	2.184	2.916	4.000	dec	
Fluoride	mg/L	MW-6S	4	1.038	0.364	1.176	0.610	1.465	4.000		
Fluoride	mg/L	MW-7S	4	0.518	0.048	1.176	0.461	0.574	4.000	inc	
Fluoride	mg/L	MW-8S	4	0.140	0.026	1.176	0.110	0.170	4.000	dec	
Fluoride	mg/L	MW-9S	4	0.118	0.081	1.176	0.023	0.212	4.000		
Lead, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-11S	4	0.008	0.005	1.176	0.001	0.014	0.015		
Lead, Total	mg/L	MW-12S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	mg/L	MW-10S	4	0.064	0.011	1.176	0.051	0.077	0.040	dec	**
Lithium, Total	mg/L	MW-11S	4	0.018	0.016	1.176	0.000	0.036	0.040		
Lithium, Total	mg/L	MW-12S	4	0.106	0.019	1.176	0.084	0.128	0.040	dec	**
Lithium, Total	mg/L	MW-13S	4	0.082	0.013	1.176	0.066	0.097	0.040		**
Lithium, Total	mg/L	MW-1S	4	0.013	0.007	1.176	0.005	0.021	0.040	dec	
Lithium, Total	mg/L	MW-2S	4	0.017	0.008	1.176	0.007	0.027	0.040	dec	
Lithium, Total	mg/L	MW-3S	4	0.010	0.000	1.176	0.010	0.010	0.040		
Lithium, Total	mg/L	MW-4S	4	0.010	0.000	1.176	0.010	0.010	0.040		
Lithium, Total	mg/L	MW-5S	4	0.052	0.008	1.176	0.043	0.061	0.040	dec	**
Lithium, Total	mg/L	MW-6S	4	0.080	0.027	1.176	0.049	0.112	0.040		**
Lithium, Total	mg/L	MW-7S	4	0.092	0.009	1.176	0.082	0.103	0.040		**

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 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lithium, Total	mg/L	MW-8S	4	0.153	0.033	1.176	0.113	0.192	0.040		**
Lithium, Total	mg/L	MW-9S	4	0.080	0.010	1.176	0.068	0.091	0.040	dec	**
Mercury	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	mg/L	MW-10S	4	0.087	0.008	1.176	0.077	0.096	0.100	dec	
Molybdenum, Total	mg/L	MW-11S	4	0.078	0.005	1.176	0.073	0.084	0.100		**
Molybdenum, Total	mg/L	MW-12S	4	0.232	0.046	1.176	0.178	0.286	0.100		**
Molybdenum, Total	mg/L	MW-13S	4	0.765	0.038	1.176	0.720	0.810	0.100		**
Molybdenum, Total	mg/L	MW-1S	4	0.036	0.011	1.176	0.022	0.049	0.100	dec	
Molybdenum, Total	mg/L	MW-2S	4	0.033	0.004	1.176	0.028	0.038	0.100	dec	
Molybdenum, Total	mg/L	MW-3S	4	0.044	0.004	1.176	0.039	0.048	0.100	dec	
Molybdenum, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.100		**
Molybdenum, Total	mg/L	MW-5S	4	0.221	0.030	1.176	0.186	0.257	0.100		**
Molybdenum, Total	mg/L	MW-6S	4	0.145	0.060	1.176	0.074	0.215	0.100	dec	**
Molybdenum, Total	mg/L	MW-7S	4	0.642	0.061	1.176	0.571	0.714	0.100	inc	**
Molybdenum, Total	mg/L	MW-8S	4	0.424	0.124	1.176	0.279	0.570	0.100		**
Molybdenum, Total	mg/L	MW-9S	4	0.128	0.050	1.176	0.069	0.187	0.100	dec	
Selenium, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-11S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-12S	4	0.004	0.002	1.176	0.002	0.006	0.050		
Selenium, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.050		

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 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Selenium, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.050	
Selenium, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.050	
Selenium, Total	mg/L	MW-3S	4	0.008	0.006	1.176	0.000	0.015	0.050	
Selenium, Total	mg/L	MW-4S	4	0.026	0.014	1.176	0.010	0.042	0.050	
Selenium, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.050	
Selenium, Total	mg/L	MW-6S	4	0.003	0.002	1.176	0.001	0.005	0.050	
Selenium, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.050	
Selenium, Total	mg/L	MW-8S	4	0.003	0.002	1.176	0.001	0.006	0.050	
Selenium, Total	mg/L	MW-9S	4	0.051	0.054	1.176	0.000	0.114	0.050	
Thallium, Total	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.002	
Total Radium	pCi/L	MW-10S	4	1.679	1.604	1.176	0.000	3.566	5.000	
Total Radium	pCi/L	MW-11S	4	0.987	0.338	1.176	0.589	1.385	5.000	
Total Radium	pCi/L	MW-12S	4	1.363	0.361	1.176	0.938	1.788	5.000	
Total Radium	pCi/L	MW-13S	4	1.350	0.421	1.176	0.855	1.845	5.000	
Total Radium	pCi/L	MW-1S	4	2.790	1.939	1.176	0.508	5.071	5.000	
Total Radium	pCi/L	MW-2S	4	2.658	1.319	1.176	1.106	4.209	5.000	
Total Radium	pCi/L	MW-3S	4	0.823	0.076	1.176	0.733	0.913	5.000	
Total Radium	pCi/L	MW-4S	4	1.073	0.200	1.176	0.838	1.307	5.000	
Total Radium	pCi/L	MW-5S	4	1.299	0.356	1.176	0.880	1.717	5.000	
Total Radium	pCi/L	MW-6S	4	1.392	0.588	1.176	0.700	2.083	5.000	

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 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Total Radium	pCi/L	MW-7S	4	1.500	0.443	1.176	0.979	2.021	5.000	
Total Radium	pCi/L	MW-8S	4	1.103	0.353	1.176	0.687	1.518	5.000	
Total Radium	pCi/L	MW-9S	4	1.277	0.464	1.176	0.732	1.823	5.000	

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	mg/L	MW-10D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-11D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-12D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-13D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-14D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-1D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-2D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-7D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9I	4	0.003	0.000	1.176	0.003	0.003	0.006		
Arsenic, Total	mg/L	MW-10D	4	0.280	0.022	1.176	0.254	0.306	0.010	dec	**
Arsenic, Total	mg/L	MW-11D	4	0.015	0.001	1.176	0.014	0.016	0.010		**
Arsenic, Total	mg/L	MW-12D	4	0.311	0.139	1.176	0.147	0.474	0.010		**
Arsenic, Total	mg/L	MW-13D	4	0.227	0.010	1.176	0.216	0.238	0.010		**
Arsenic, Total	mg/L	MW-14D	4	0.114	0.012	1.176	0.100	0.128	0.010		**
Arsenic, Total	mg/L	MW-1D	4	0.017	0.022	1.176	0.000	0.043	0.010		
Arsenic, Total	mg/L	MW-2D	4	0.003	0.001	1.176	0.002	0.004	0.010		
Arsenic, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.003	0.003	0.010		
Arsenic, Total	mg/L	MW-7D	4	0.443	0.032	1.176	0.405	0.481	0.010		**
Arsenic, Total	mg/L	MW-9D	4	0.004	0.001	1.176	0.002	0.006	0.010		
Arsenic, Total	mg/L	MW-9I	4	0.004	0.000	1.176	0.004	0.005	0.010		
Barium, Total	mg/L	MW-10D	4	0.031	0.003	1.176	0.028	0.035	2.000		
Barium, Total	mg/L	MW-11D	4	0.031	0.003	1.176	0.027	0.034	2.000	dec	
Barium, Total	mg/L	MW-12D	4	0.027	0.001	1.176	0.025	0.028	2.000	dec	
Barium, Total	mg/L	MW-13D	4	0.029	0.004	1.176	0.024	0.033	2.000		
Barium, Total	mg/L	MW-14D	4	0.053	0.006	1.176	0.046	0.059	2.000		
Barium, Total	mg/L	MW-1D	4	0.075	0.026	1.176	0.045	0.106	2.000	inc	
Barium, Total	mg/L	MW-2D	4	0.091	0.024	1.176	0.063	0.119	2.000		
Barium, Total	mg/L	MW-3D	4	0.056	0.009	1.176	0.045	0.066	2.000		
Barium, Total	mg/L	MW-7D	4	0.042	0.003	1.176	0.039	0.046	2.000		
Barium, Total	mg/L	MW-9D	4	0.048	0.003	1.176	0.044	0.051	2.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Barium, Total	mg/L	MW-9I	4	0.061	0.005	1.176	0.055	0.067	2.000	inc
Beryllium, Total	mg/L	MW-10D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-11D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-12D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-13D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-14D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-1D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-2D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-3D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-7D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-9D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-9I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Cadmium, Total	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-7D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Chromium, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.100	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Chromium, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Cobalt, Total	mg/L	MW-10D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-11D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-12D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-13D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-14D	4	0.002	0.001	1.176	0.001	0.003	0.006	
Cobalt, Total	mg/L	MW-1D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-2D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-7D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-9D	4	0.003	0.000	1.176	0.002	0.003	0.006	
Cobalt, Total	mg/L	MW-9I	4	0.003	0.000	1.176	0.002	0.003	0.006	
Fluoride	mg/L	MW-10D	4	2.450	0.129	1.176	2.298	2.602	4.000	
Fluoride	mg/L	MW-11D	4	0.420	0.042	1.176	0.371	0.469	4.000	
Fluoride	mg/L	MW-12D	4	1.143	0.141	1.176	0.977	1.308	4.000	inc
Fluoride	mg/L	MW-13D	4	0.548	0.068	1.176	0.468	0.627	4.000	inc
Fluoride	mg/L	MW-14D	4	0.200	0.104	1.176	0.077	0.323	4.000	dec
Fluoride	mg/L	MW-1D	4	0.310	0.036	1.176	0.268	0.352	4.000	dec
Fluoride	mg/L	MW-2D	4	1.275	0.250	1.176	0.981	1.569	4.000	
Fluoride	mg/L	MW-3D	4	0.220	0.018	1.176	0.199	0.241	4.000	dec
Fluoride	mg/L	MW-7D	4	0.370	0.044	1.176	0.318	0.422	4.000	
Fluoride	mg/L	MW-9D	4	0.440	0.016	1.176	0.421	0.459	4.000	
Fluoride	mg/L	MW-9I	4	0.720	0.045	1.176	0.667	0.773	4.000	inc
Lead, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.015	
Lead, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.015	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	mg/L	MW-10D	4	0.061	0.007	1.176	0.053	0.070	0.040	dec	**
Lithium, Total	mg/L	MW-11D	4	0.133	0.007	1.176	0.125	0.141	0.040		**
Lithium, Total	mg/L	MW-12D	4	0.107	0.004	1.176	0.102	0.112	0.040	dec	**
Lithium, Total	mg/L	MW-13D	4	0.092	0.011	1.176	0.078	0.105	0.040		**
Lithium, Total	mg/L	MW-14D	4	0.578	0.169	1.176	0.378	0.777	0.040		**
Lithium, Total	mg/L	MW-1D	4	0.033	0.018	1.176	0.011	0.054	0.040	dec	
Lithium, Total	mg/L	MW-2D	4	0.052	0.010	1.176	0.040	0.064	0.040	dec	**
Lithium, Total	mg/L	MW-3D	4	0.013	0.006	1.176	0.006	0.020	0.040	dec	
Lithium, Total	mg/L	MW-7D	4	0.104	0.015	1.176	0.087	0.122	0.040		**
Lithium, Total	mg/L	MW-9D	4	0.034	0.008	1.176	0.024	0.043	0.040	dec	
Lithium, Total	mg/L	MW-9I	4	0.031	0.006	1.176	0.023	0.038	0.040	dec	
Mercury	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.002	0.002		
Mercury	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-7D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	mg/L	MW-10D	4	0.084	0.012	1.176	0.070	0.098	0.100	dec	
Molybdenum, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Molybdenum, Total	mg/L	MW-12D	4	0.216	0.011	1.176	0.203	0.229	0.100	dec	**
Molybdenum, Total	mg/L	MW-13D	4	0.928	0.109	1.176	0.800	1.055	0.100	inc	**
Molybdenum, Total	mg/L	MW-14D	4	0.225	0.044	1.176	0.174	0.277	0.100		**
Molybdenum, Total	mg/L	MW-1D	4	0.045	0.008	1.176	0.036	0.055	0.100	dec	
Molybdenum, Total	mg/L	MW-2D	4	0.088	0.013	1.176	0.072	0.103	0.100	dec	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Molybdenum, Total	mg/L	MW-3D	4	0.010	0.003	1.176	0.006	0.014	0.100	dec	**
Molybdenum, Total	mg/L	MW-7D	4	0.667	0.060	1.176	0.596	0.737	0.100	inc	
Molybdenum, Total	mg/L	MW-9D	4	0.051	0.004	1.176	0.046	0.056	0.100	dec	
Molybdenum, Total	mg/L	MW-9I	4	0.093	0.004	1.176	0.089	0.098	0.100	dec	
Selenium, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Thallium, Total	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-7D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-10D	4	1.072	0.249	1.176	0.779	1.364	5.000		
Total Radium	pCi/L	MW-11D	4	0.936	0.086	1.176	0.834	1.038	5.000		
Total Radium	pCi/L	MW-12D	4	1.037	0.263	1.176	0.727	1.346	5.000		
Total Radium	pCi/L	MW-13D	4	1.266	0.340	1.176	0.866	1.666	5.000		
Total Radium	pCi/L	MW-14D	4	1.648	0.239	1.176	1.366	1.929	5.000		
Total Radium	pCi/L	MW-1D	4	1.711	1.097	1.176	0.421	3.001	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Total Radium	pCi/L	MW-2D	4	2.705	1.036	1.176	1.486	3.924	5.000	
Total Radium	pCi/L	MW-3D	4	1.980	1.388	1.176	0.347	3.613	5.000	
Total Radium	pCi/L	MW-7D	4	1.103	0.354	1.176	0.687	1.518	5.000	
Total Radium	pCi/L	MW-9D	4	1.031	0.132	1.176	0.876	1.186	5.000	
Total Radium	pCi/L	MW-9I	4	1.504	0.768	1.176	0.600	2.408	5.000	

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 ** - Significant Exceedance
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 UCL = Upper Confidence Limit

May 2021

Table 1: 95% LCL Compared to GWPS - Shallow Zone
 Multiunit Ash Pond System
 AES Indiana
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF01115

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through May 2021)	1	1	90.4	0.2	2	10	1	0.2521	10	20	2	10	3.9	1	2.4348
MW-1S	September 2018	2	0	7	2	1	5	2	0.593	5	7	1	46	5	1	0.896
	May 2019	2	0	3	2	1	5	2	0.519	5	7	1	41	5	1	0.648
	November 2019	1	0	33	2	1	5	2	0.425	5	5	1	32	5	1	1.431
	May 2020	1	6	51	2	1	5	2	0.343	5	5	1	29	5	1	0.304
	November 2020	2	3	54	2	1	5	2	0.326	5	5	1	22	5	1	0.508
	May 2021	2	8	76	2	1	5	2	0.254	5	10	1	22	5	1	1.088
MW-2S	September 2018	3	14	80	2	1	5	2	1.186	5	17	1	71	5	1	1.152
	May 2019	3	12	81	2	1	5	2	0.895	5	1	1	35	5	1	0.973
	November 2019	3	12	64	2	1	5	2	0.587	5	13	1	25	5	1	1.000
	May 2020	3	10	62	2	1	5	2	0.363	5	7	1	14	5	1	0.990
	November 2020	3	9	82	2	1	5	1	0.298	5	7	1	28	5	1	1.106
	May 2021	3	6	68	2	1	5	1	0.294	5	7	1	28	5	1	0.429
MW-3S	September 2018	8	2	24	2	1	5	2	0.349	5	10	1	52	4	1	0.491
	May 2019	7	2	25	2	1	5	2	0.217	5	10	1	41	0	1	0.549
	November 2019	8	1	28	2	1	5	2	0.197	5	10	1	34	0	1	0.615
	May 2020	7	2	35	2	1	5	2	0.223	5	10	1	41	1	1	0.615
	November 2020	7	1	36	2	1	5	2	0.214	5	10	1	39	0	1	0.733
	May 2021	6	0	39	2	1	5	2	0.174	5	10	1	35	2	1	0.785
MW-4S	September 2018	3	5	52	2	1	5	2	0.108	5	6	1	5	6	1	0.721
	May 2019	3	5	47	2	1	5	2	0.108	5	6	1	5	5	1	0.601
	November 2019								DRY WELL; NOT SAMPLED							
	May 2020	3	2	48	2	1	5	2	0.060	5	10	1	5	2	1	0.812
	November 2020	3	2	62	2	1	5	1	0.037	5	10	1	5	10	1	0.838
	May 2021								DRY WELL; NOT SAMPLED							
MW-5S	September 2018	3	5	24	2	1	5	2	2.65	5	53	1	249	5	1	1.047
	May 2019	3	5	25	2	1	5	1	2.391	5	53	1	227	5	1	1.073
	November 2019								DRY WELL; NOT SAMPLED							
	May 2020	3	5	28	2	1	5	1	2.316	5	53	1	217	5	1	0.942
	November 2020	3	5	25	2	1	5	1	2.184	5	43	1	186	5	1	0.880
	May 2021	3	5	24	2	1	5	1	1.802	5	39	1	138	5	1	0.875
MW-6S	September 2018	3	11	72	2	1	5	2	0.919	5	60	1	137	2	1	0.553
	May 2019	1	11	82	2	1	5	2	0.600	5	55	1	79	1	1	0.662
	November 2019								DRY WELL; NOT SAMPLED							
	May 2020	1	10	103	2	1	5	2	0.614	5	55	1	79	1	1	0.846
	November 2020	1	8	105	2	1	5	2	0.610	5	49	1	74	1	1	0.700
	May 2021	1	6	101	2	1	5	2	0.614	5	51	1	77	2	1	0.434

Table 1: 95% LCL Compared to GWPS - Shallow Zone
 Multiunit Ash Pond System
 AES Indiana
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF01115

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through May 2021)	1	1	90.4	0.2	2	10	1	0.2521	10	20	2	10	3.9	1	2.4348
MW-7S	September 2018	3	324	38	2	1	5	2	0.395	5	92	1	410	5	1	1.138
	May 2019	3	319	34	2	1	5	1	0.391	5	90	1	438	5	1	1.180
	November 2019	3	309	35	2	1	5	1	0.419	5	89	1	508	5	1	1.272
	May 2020	3	306	33	2	1	5	1	0.431	5	84	1	509	5	1	1.080
	November 2020	3	337	32	2	1	5	1	0.461	5	82	1	571	5	1	0.979
	May 2021	3	374	34	2	1	5	1	0.465	5	82	1	619	5	1	0.965
MW-8S	September 2018	3	5	18	2	1	5	2	0.066	5	72	1	133	5	1	0.702
	May 2019	3	5	35	2	1	5	2	0.066	5	82	1	171	2	1	0.702
	November 2019	3	5	36	2	1	5	2	0.062	5	118	1	279	2	1	0.620
	May 2020	3	5	36	2	1	5	2	0.056	5	114	1	242	1	1	0.620
	November 2020	3	5	36	2	1	5	2	0.11	5	113	1	279	1	1	0.687
	May 2021	3	5	31	2	1	5	2	0.059	5	113	1	292	2	1	0.687
MW-9S	September 2018	9	5	41	2	1	5	2	0.05	5	87	1	88	0	1	0.663
	May 2019	8	5	47	2	1	5	2	0.013	5	74	1	83	0	1	0.801
	November 2019	DRY WELL; NOT SAMPLED														
	May 2020	9	2	49	2	1	5	2	0.013	5	73	1	92	9	1	0.801
	November 2020	7	2	50	2	1	5	2	0.023	5	68	1	69	0	1	0.732
	May 2021	DRY WELL; NOT SAMPLED														
MW-10S	September 2018	3	356	42	2	1	5	2	1.76	5	51	1	108	5	1	1.019
	May 2019	3	321	37	2	1	5	2	1.839	5	50	1	92	5	1	0.965
	November 2019	3	326	41	2	1	5	2	2.051	5	55	1	85	5	1	0.596
	May 2020	3	337	38	2	1	5	1	1.936	5	57	1	80	5	1	0.544
	November 2020	3	340	35	2	1	5	1	1.97	5	51	1	77	5	1	0
	May 2021	3	342	42	2	1	5	1	1.970	5	42	1	71	5	1	0
MW-11S	September 2018	3	2	40	2	1	0.242	0	1.404	2	0.194	1	72	5	1	1.321
	May 2019	3	1	41	2	1	0	0	1.362	2	0	1	73	5	1	1.068
	November 2019	3	2	54	2	1	2	0	1.366	2	10	1	73	5	1	0.597
	May 2020	3	0	8	1	1	0	0	1.332	1	0	1	71	5	1	0.471
	November 2020	3	0	2	1	1	0	0	1.364	1	0	1	73	5	1	0.589
	May 2021	3	0	0	1	1	0	0	1.364	1	0	1	76	5	1	0.642
MW-12S	September 2018	2	13	28	2	1	5	2	0.458	5	102	1	274	5	1	0.889
	May 2019	3	18	26	2	1	5	2	0.879	5	100	1	248	2	1	0.897
	November 2019	DRY WELL; NOT SAMPLED														
	May 2020	2	27	27	2	1	5	2	1.534	5	97	1	202	2	1	0.897
	November 2020	2	27	28	2	1	5	2	1.534	5	84	1	178	2	1	0.938
	May 2021	DRY WELL; NOT SAMPLED														

Table 1: 95% LCL Compared to GWPS - Shallow Zone
 Multiunit Ash Pond System
 AES Indiana
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF01115

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through May 2021)	1	1	90.4	0.2	2	10	1	0.2521	10	20	2	10	3.9	1	2.4348
MW-13S	September 2018	3	328	24	2	1	5	2	0.647	5	83	1	466	5	1	0.713
	May 2019	3	313	25	2	1	5	2	0.681	5	84	1	547	5	1	0.725
	November 2019	3	312	26	2	1	5	2	0.786	5	75	1	726	5	1	0.732
	May 2020	3	306	25	2	1	5	2	0.779	5	74	1	746	5	1	0.883
	November 2020	3	291	28	2	1	5	2	0.778	5	66	1	720	5	1	0.855
	May 2021	3	289	29	2	1	5	2	0.804	5	62	1	684	5	1	0.861

Notes:

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

*USEPA'S *Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities* ; effective August 29, 2018.

The 95% LCL statistic is based on the rolling set of the four most recent individual sample results for a parameter.

LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the full date range of non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

DUMPStat summary table output limits the number of significant digits reported for a calculated LCL. An exceedingly small calculated LCL value (e.g. 0.00001 mg/L) may simply be reported as 0 in the output summary.

Table updated to include May 2021 assessment sampling results.

Table 2: 95% LCL Compared to GWPS - Deep Zone
 Multiunit Ash Pond System
 AES Indiana
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF01115

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through May 2021)	1	1.8	74.3	0.2	2	10	1	0.13	10	20	2	10	1	1	2.3911
MW-1D	September 2018	3	2	49	2	1	5	2	0.362	5	31	1	49	5	1	0.886
	May 2019	3	4	47	2	1	5	2	0.336	5	31	1	48	5	1	0.900
	November 2019	3	4	48	2	1	5	2	0.314	5	25	1	46	5	1	0.852
	May 2020	3	4	50	2	1	5	2	0.265	5	25	1	45	5	1	0.961
	November 2020	3	0	45	2	1	5	2	0.268	5	11	1	36	5	1	0.421
May 2021	3	0	51	2	1	5	2	0.229	5	11	1	35	5	1	0.838	
MW-2D	September 2018	3	2	27	2	1	5	2	2.532	5	35	1	202	5	1	0.958
	May 2019	3	1	39	2	1	5	2	1.763	5	20	1	120	5	1	0.990
	November 2019	3	1	48	2	1	5	2	1.209	5	28	1	65	5	1	0.905
	May 2020	3	2	52	2	1	5	2	0.859	5	30	1	56	5	1	1.427
	November 2020	3	2	63	2	1	5	2	0.981	5	40	1	72	5	1	1.486
May 2021	3	2	39	2	1	5	2	0.865	5	37	1	59	5	1	1.458	
MW-3D	September 2018	3	3	61	2	1	5	2	0.264	5	7	1	14	5	1	0.808
	May 2019	3	2	64	2	1	5	2	0.222	5	7	1	5	5	1	0.794
	November 2019	3	2	54	2	1	5	2	0.212	5	6	1	10	5	1	0.482
	May 2020	3	3	46	2	1	5	2	0.205	5	6	1	10	5	1	0.355
	November 2020	3	3	45	2	1	5	2	0.199	5	6	1	6	5	1	0.347
May 2021	3	3	41	2	1	5	2	0.181	5	10	1	4	5	1	0.000	
MW-7D	September 2018	3	443	48	2	1	5	2	0.262	5	108	1	426	5	1	1.280
	May 2019	3	438	41	2	1	5	2	0.263	5	106	1	467	5	1	0.777
	November 2019	3	422	42	2	1	5	2	0.284	5	97	1	546	5	1	0.877
	May 2020	3	426	42	2	1	5	2	0.294	5	94	1	554	5	1	0.831
	November 2020	3	405	39	2	1	5	2	0.318	5	87	1	596	5	1	0.687
May 2021	3	404	38	2	1	5	2	0.343	5	91	1	629	5	1	0.855	
MW-9D	September 2018	3	3	32	2	1	5	2	0.425	5	41	1	84	5	1	0.803
	May 2019	3	2	36	2	1	5	2	0.412	5	38	1	56	5	1	0.770
	November 2019	3	2	45	2	1	5	2	0.430	5	35	1	42	5	1	0.808
	May 2020	3	2	45	2	1	5	2	0.428	5	31	1	42	5	1	0.822
	November 2020	3	2	44	2	1	5	2	0.421	5	24	1	46	5	1	0.876
May 2021	3	3	46	2	1	5	2	0.400	5	24	1	46	5	1	0.795	
MW-9I	September 2018	3	5	30	2	1	5	2	0.538	5	33	1	109	5	1	0.946
	May 2019	3	4	38	2	1	5	2	0.522	5	30	1	98	5	1	0.934
	November 2019	3	4	54	2	1	5	2	0.528	5	31	1	88	5	1	0.738
	May 2020	3	4	53	2	1	5	2	0.595	5	29	1	89	5	1	0.544
	November 2020	3	4	55	2	1	5	2	0.667	5	23	1	89	5	1	0.600
May 2021	3	4	58	2	1	5	2	0.647	5	24	1	78	5	1	0.480	
MW-10D	September 2018	3	331	23	2	1	5	2	2.066	5	58	1	139	5	1	1.123
	May 2019	3	295	26	2	1	5	2	2.147	5	57	1	97	5	1	1.048
	November 2019	3	267	28	2	1	5	2	2.299	5	60	1	73	5	1	0.943
	May 2020	3	263	27	2	1	5	2	2.298	5	59	1	60	5	1	0.743
	November 2020	3	254	28	2	1	5	2	2.298	5	53	1	70	5	1	0.779
May 2021	3	252	26	2	1	5	2	2.334	5	49	1	71	5	1	0.674	

Table 2: 95% LCL Compared to GWPS - Deep Zone
 Multiunit Ash Pond System
 AES Indiana
 Harding Street Generating Station, Indianapolis, Indiana
 ATC Project No. 170LF01115

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through May 2021)	1	1.8	74.3	0.2	2	10	1	0.13	10	20	2	10	1	1	2.3911
MW-11D	September 2018	3	13	32	2	1	5	2	0.333	5	111	1	5	5	1	0.912
	May 2019	3	13	31	2	1	5	2	0.334	5	122	1	5	5	1	0.887
	November 2019	3	14	31	2	1	5	2	0.326	5	123	1	5	5	1	0.834
	May 2020	3	14	28	2	1	5	2	0.311	5	122	1	5	5	1	0.782
	November 2020	3	14	27	2	1	5	2	0.371	5	125	1	5	5	1	0.834
May 2021	3	15	26	2	1	5	2	0.270	5	129	1	5	5	1	0.680	
MW-12D	September 2018	3	194	24	2	1	5	2	0.379	5	113	1	217	5	1	0.960
	May 2019	3	203	24	2	1	5	2	0.515	5	101	1	221	5	1	0.669
	November 2019	3	208	24	2	1	5	2	0.962	5	101	1	215	5	1	0.794
	May 2020	3	194	24	2	1	5	2	0.962	5	101	1	214	5	1	0.721
	November 2020	3	147	25	2	1	5	2	0.977	5	102	1	203	5	1	0.727
May 2021	3	215	27	2	1	5	2	0.977	5	75	1	176	5	1	0.727	
MW-13D	September 2018	3	217	20	2	1	5	2	0.410	5	97	1	614	5	1	1.058
	May 2019	3	209	21	2	1	5	2	0.415	5	97	1	666	5	1	1.366
	November 2019	3	207	20	2	1	5	2	0.452	5	87	1	813	5	1	1.022
	May 2020	3	211	19	2	1	5	2	0.446	5	87	1	799	5	1	0.852
	November 2020	3	216	24	2	1	5	2	0.468	5	78	1	800	5	1	0.866
May 2021	3	218	20	2	1	5	1	0.507	5	72	1	779	5	1	0.837	
MW-14D	September 2018	3	113	49	2	1	5	2	0.246	5	551	1	177	5	1	1.154
	May 2019	3	105	46	2	1	5	2	0.235	5	532	1	181	5	1	1.198
	November 2019	3	99	47	2	1	5	1	0.202	5	488	1	159	5	1	1.163
	May 2020	3	104	46	2	1	5	1	0.076	5	449	1	159	5	1	1.302
	November 2020	3	100	46	2	1	5	1	0.077	5	378	1	174	5	1	1.366
May 2021	3	103	48	2	1	5	1	0.015	5	398	1	189	5	1	1.605	

Notes:

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

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The 95% LCL statistic is based on the rolling set of the four most recent individual sample results for a parameter.

LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the full date range of non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

DUMPStat summary table output limits the number of significant digits reported for a calculated LCL. An exceedingly small calculated LCL value (e.g. 0.00001 mg/L) may simply be reported as 0 in the output summary.

Table updated to include May 2021 assessment sampling results.

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	mg/L	MW-10S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-11S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-12S	4	0.003	0.001	1.176	0.002	0.004	0.006		
Antimony, Total	mg/L	MW-13S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-1S	4	0.004	0.002	1.176	0.002	0.006	0.006		
Antimony, Total	mg/L	MW-2S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-3S	4	0.007	0.001	1.176	0.006	0.009	0.006		
Antimony, Total	mg/L	MW-4S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-5S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-6S	4	0.003	0.001	1.176	0.001	0.004	0.006		
Antimony, Total	mg/L	MW-7S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-8S	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9S	4	0.009	0.002	1.176	0.007	0.011	0.006	dec	**
Arsenic, Total	mg/L	MW-10S	4	0.376	0.029	1.176	0.342	0.410	0.010		**
Arsenic, Total	mg/L	MW-11S	4	0.005	0.006	1.176	0.000	0.012	0.010		**
Arsenic, Total	mg/L	MW-12S	4	0.045	0.015	1.176	0.027	0.062	0.010	inc	**
Arsenic, Total	mg/L	MW-13S	4	0.354	0.055	1.176	0.289	0.419	0.010		**
Arsenic, Total	mg/L	MW-1S	4	0.027	0.016	1.176	0.008	0.047	0.010		
Arsenic, Total	mg/L	MW-2S	4	0.012	0.005	1.176	0.006	0.017	0.010	dec	
Arsenic, Total	mg/L	MW-3S	4	0.002	0.002	1.176	0.000	0.004	0.010		
Arsenic, Total	mg/L	MW-4S	4	0.004	0.002	1.176	0.002	0.006	0.010		
Arsenic, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-6S	4	0.022	0.013	1.176	0.006	0.037	0.010		**
Arsenic, Total	mg/L	MW-7S	4	0.422	0.041	1.176	0.374	0.469	0.010		**
Arsenic, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-9S	4	0.004	0.002	1.176	0.002	0.006	0.010		
Barium, Total	mg/L	MW-10S	4	0.067	0.021	1.176	0.042	0.091	2.000		
Barium, Total	mg/L	MW-11S	4	0.133	0.114	1.176	0.000	0.267	2.000		
Barium, Total	mg/L	MW-12S	4	0.031	0.003	1.176	0.028	0.035	2.000	dec	
Barium, Total	mg/L	MW-13S	4	0.033	0.004	1.176	0.029	0.037	2.000		
Barium, Total	mg/L	MW-1S	4	0.112	0.030	1.176	0.076	0.147	2.000		
Barium, Total	mg/L	MW-2S	4	0.128	0.050	1.176	0.068	0.187	2.000		
Barium, Total	mg/L	MW-3S	4	0.045	0.005	1.176	0.039	0.051	2.000		
Barium, Total	mg/L	MW-4S	4	0.088	0.022	1.176	0.062	0.114	2.000		
Barium, Total	mg/L	MW-5S	4	0.029	0.004	1.176	0.024	0.034	2.000		
Barium, Total	mg/L	MW-6S	4	0.120	0.016	1.176	0.101	0.138	2.000		
Barium, Total	mg/L	MW-7S	4	0.042	0.007	1.176	0.034	0.050	2.000	dec	
Barium, Total	mg/L	MW-8S	4	0.036	0.004	1.176	0.031	0.041	2.000		
Barium, Total	mg/L	MW-9S	4	0.053	0.002	1.176	0.050	0.055	2.000	inc	
Beryllium, Total	mg/L	MW-10S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-11S	4	0.002	0.001	1.176	0.001	0.002	0.004		
Beryllium, Total	mg/L	MW-12S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-13S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-1S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-2S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-3S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-4S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-5S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-6S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-7S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-8S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-9S	4	0.002	0.000	1.176	0.002	0.002	0.004		
Cadmium, Total	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.005		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Cadmium, Total	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.005		
Chromium, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-11S	4	0.012	0.015	1.176	0.000	0.029	0.100		
Chromium, Total	mg/L	MW-12S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-9S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Cobalt, Total	mg/L	MW-10S	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-11S	4	0.005	0.004	1.176	0.000	0.009	0.006		
Cobalt, Total	mg/L	MW-12S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-13S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-1S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-2S	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-3S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-4S	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-5S	4	0.001	0.001	1.176	0.001	0.002	0.006		
Cobalt, Total	mg/L	MW-6S	4	0.002	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-7S	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-8S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-9S	4	0.003	0.000	1.176	0.002	0.003	0.006		
Fluoride	mg/L	MW-10S	4	2.250	0.238	1.176	1.970	2.530	4.000		
Fluoride	mg/L	MW-11S	4	1.500	0.115	1.176	1.364	1.636	4.000		
Fluoride	mg/L	MW-12S	4	1.700	0.141	1.176	1.534	1.866	4.000	inc	
Fluoride	mg/L	MW-13S	4	0.893	0.075	1.176	0.804	0.981	4.000	inc	
Fluoride	mg/L	MW-1S	4	0.342	0.075	1.176	0.254	0.431	4.000		
Fluoride	mg/L	MW-2S	4	0.505	0.179	1.176	0.294	0.716	4.000		
Fluoride	mg/L	MW-3S	4	0.220	0.039	1.176	0.174	0.266	4.000	dec	
Fluoride	mg/L	MW-4S	4	0.085	0.040	1.176	0.037	0.133	4.000		
Fluoride	mg/L	MW-5S	4	2.225	0.359	1.176	1.802	2.648	4.000	dec	
Fluoride	mg/L	MW-6S	4	1.063	0.382	1.176	0.614	1.511	4.000		
Fluoride	mg/L	MW-7S	4	0.520	0.047	1.176	0.465	0.575	4.000	inc	
Fluoride	mg/L	MW-8S	4	0.110	0.043	1.176	0.059	0.161	4.000	dec	
Fluoride	mg/L	MW-9S	4	0.118	0.081	1.176	0.023	0.212	4.000		
Lead, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-11S	4	0.008	0.005	1.176	0.001	0.014	0.015		
Lead, Total	mg/L	MW-12S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-8S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9S	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	mg/L	MW-10S	4	0.058	0.014	1.176	0.042	0.074	0.040	dec	**
Lithium, Total	mg/L	MW-11S	4	0.018	0.016	1.176	0.000	0.036	0.040		**
Lithium, Total	mg/L	MW-12S	4	0.106	0.019	1.176	0.084	0.128	0.040	dec	**
Lithium, Total	mg/L	MW-13S	4	0.073	0.009	1.176	0.062	0.083	0.040	dec	**
Lithium, Total	mg/L	MW-1S	4	0.010	0.000	1.176	0.010	0.010	0.040	dec	
Lithium, Total	mg/L	MW-2S	4	0.017	0.008	1.176	0.007	0.027	0.040	dec	
Lithium, Total	mg/L	MW-3S	4	0.010	0.000	1.176	0.010	0.010	0.040		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lithium, Total	mg/L	MW-4S	4	0.010	0.000	1.176	0.010	0.010	0.040		
Lithium, Total	mg/L	MW-5S	4	0.050	0.009	1.176	0.039	0.060	0.040	dec	**
Lithium, Total	mg/L	MW-6S	4	0.082	0.026	1.176	0.051	0.112	0.040		**
Lithium, Total	mg/L	MW-7S	4	0.086	0.003	1.176	0.082	0.090	0.040	dec	**
Lithium, Total	mg/L	MW-8S	4	0.152	0.034	1.176	0.113	0.192	0.040		**
Lithium, Total	mg/L	MW-9S	4	0.080	0.010	1.176	0.068	0.091	0.040	dec	**
Mercury	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	mg/L	MW-10S	4	0.081	0.009	1.176	0.071	0.092	0.100	dec	
Molybdenum, Total	mg/L	MW-11S	4	0.079	0.003	1.176	0.076	0.083	0.100		**
Molybdenum, Total	mg/L	MW-12S	4	0.232	0.046	1.176	0.178	0.286	0.100		**
Molybdenum, Total	mg/L	MW-13S	4	0.742	0.050	1.176	0.684	0.801	0.100		**
Molybdenum, Total	mg/L	MW-1S	4	0.029	0.006	1.176	0.022	0.036	0.100	dec	
Molybdenum, Total	mg/L	MW-2S	4	0.033	0.004	1.176	0.028	0.037	0.100	dec	
Molybdenum, Total	mg/L	MW-3S	4	0.042	0.005	1.176	0.035	0.048	0.100	dec	
Molybdenum, Total	mg/L	MW-4S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Molybdenum, Total	mg/L	MW-5S	4	0.191	0.045	1.176	0.138	0.243	0.100		**
Molybdenum, Total	mg/L	MW-6S	4	0.160	0.070	1.176	0.077	0.242	0.100		**
Molybdenum, Total	mg/L	MW-7S	4	0.668	0.042	1.176	0.619	0.716	0.100	inc	**
Molybdenum, Total	mg/L	MW-8S	4	0.431	0.118	1.176	0.292	0.569	0.100		**
Molybdenum, Total	mg/L	MW-9S	4	0.128	0.050	1.176	0.069	0.187	0.100	dec	
Selenium, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-11S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-12S	4	0.004	0.002	1.176	0.002	0.006	0.050		
Selenium, Total	mg/L	MW-13S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-1S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-2S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-3S	4	0.006	0.004	1.176	0.002	0.010	0.050		
Selenium, Total	mg/L	MW-4S	4	0.026	0.014	1.176	0.010	0.042	0.050		
Selenium, Total	mg/L	MW-5S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-6S	4	0.004	0.001	1.176	0.002	0.005	0.050		
Selenium, Total	mg/L	MW-7S	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-8S	4	0.004	0.002	1.176	0.002	0.005	0.050		
Selenium, Total	mg/L	MW-9S	4	0.051	0.054	1.176	0.000	0.114	0.050		
Thallium, Total	mg/L	MW-10S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-11S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-13S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-1S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-2S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-3S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-4S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-5S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-7S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-8S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-9S	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-10S	4	1.638	1.628	1.176	0.000	3.553	5.000		
Total Radium	pCi/L	MW-11S	4	1.116	0.403	1.176	0.642	1.590	5.000		
Total Radium	pCi/L	MW-12S	4	1.363	0.361	1.176	0.938	1.788	5.000		
Total Radium	pCi/L	MW-13S	4	1.358	0.422	1.176	0.861	1.854	5.000		

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 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Total Radium	pCi/L	MW-1S	4	3.234	1.825	1.176	1.088	5.381	5.000	
Total Radium	pCi/L	MW-2S	4	2.334	1.619	1.176	0.429	4.239	5.000	
Total Radium	pCi/L	MW-3S	4	0.785	0.000	1.176	0.785	0.785	5.000	
Total Radium	pCi/L	MW-4S	4	1.073	0.200	1.176	0.838	1.307	5.000	
Total Radium	pCi/L	MW-5S	4	1.176	0.256	1.176	0.875	1.477	5.000	
Total Radium	pCi/L	MW-6S	4	1.114	0.578	1.176	0.434	1.794	5.000	
Total Radium	pCi/L	MW-7S	4	1.425	0.391	1.176	0.965	1.884	5.000	
Total Radium	pCi/L	MW-8S	4	1.103	0.353	1.176	0.687	1.518	5.000	
Total Radium	pCi/L	MW-9S	4	1.277	0.464	1.176	0.732	1.823	5.000	

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	mg/L	MW-10D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-11D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-12D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-13D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-14D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-1D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-2D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-7D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Antimony, Total	mg/L	MW-9I	4	0.003	0.000	1.176	0.003	0.003	0.006		
Arsenic, Total	mg/L	MW-10D	4	0.265	0.011	1.176	0.252	0.277	0.010	dec	**
Arsenic, Total	mg/L	MW-11D	4	0.015	0.001	1.176	0.015	0.016	0.010		**
Arsenic, Total	mg/L	MW-12D	4	0.374	0.135	1.176	0.215	0.533	0.010		**
Arsenic, Total	mg/L	MW-13D	4	0.231	0.012	1.176	0.218	0.245	0.010		**
Arsenic, Total	mg/L	MW-14D	4	0.120	0.014	1.176	0.103	0.137	0.010		**
Arsenic, Total	mg/L	MW-1D	4	0.017	0.022	1.176	0.000	0.043	0.010		
Arsenic, Total	mg/L	MW-2D	4	0.003	0.001	1.176	0.002	0.004	0.010		
Arsenic, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.003	0.004	0.010		
Arsenic, Total	mg/L	MW-7D	4	0.444	0.034	1.176	0.404	0.484	0.010		**
Arsenic, Total	mg/L	MW-9D	4	0.005	0.002	1.176	0.003	0.008	0.010		
Arsenic, Total	mg/L	MW-9I	4	0.004	0.000	1.176	0.004	0.005	0.010		
Barium, Total	mg/L	MW-10D	4	0.031	0.004	1.176	0.026	0.035	2.000		
Barium, Total	mg/L	MW-11D	4	0.030	0.003	1.176	0.026	0.033	2.000	dec	
Barium, Total	mg/L	MW-12D	4	0.028	0.000	1.176	0.027	0.028	2.000	dec	
Barium, Total	mg/L	MW-13D	4	0.036	0.013	1.176	0.020	0.051	2.000		
Barium, Total	mg/L	MW-14D	4	0.059	0.009	1.176	0.048	0.070	2.000		
Barium, Total	mg/L	MW-1D	4	0.079	0.024	1.176	0.051	0.108	2.000	inc	
Barium, Total	mg/L	MW-2D	4	0.081	0.036	1.176	0.039	0.124	2.000		
Barium, Total	mg/L	MW-3D	4	0.048	0.006	1.176	0.041	0.056	2.000		
Barium, Total	mg/L	MW-7D	4	0.042	0.003	1.176	0.038	0.045	2.000		
Barium, Total	mg/L	MW-9D	4	0.050	0.004	1.176	0.046	0.055	2.000		
Barium, Total	mg/L	MW-9I	4	0.064	0.006	1.176	0.058	0.071	2.000	inc	
Beryllium, Total	mg/L	MW-10D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-11D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-12D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-13D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-14D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-1D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-2D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-3D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-7D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-9D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Beryllium, Total	mg/L	MW-9I	4	0.002	0.000	1.176	0.002	0.002	0.004		
Cadmium, Total	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-7D	4	0.001	0.001	1.176	0.001	0.002	0.005		
Cadmium, Total	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Cadmium, Total	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.005		
Chromium, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.100		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.100		
Cobalt, Total	mg/L	MW-10D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-11D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-12D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-13D	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-14D	4	0.002	0.001	1.176	0.001	0.003	0.006		
Cobalt, Total	mg/L	MW-1D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-2D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-3D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-7D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-9D	4	0.003	0.000	1.176	0.002	0.003	0.006		
Cobalt, Total	mg/L	MW-9I	4	0.003	0.000	1.176	0.002	0.003	0.006		
Fluoride	mg/L	MW-10D	4	2.500	0.141	1.176	2.334	2.666	4.000		
Fluoride	mg/L	MW-11D	4	0.365	0.081	1.176	0.270	0.460	4.000		
Fluoride	mg/L	MW-12D	4	1.142	0.141	1.176	0.977	1.308	4.000	inc	
Fluoride	mg/L	MW-13D	4	0.575	0.058	1.176	0.507	0.643	4.000	inc	
Fluoride	mg/L	MW-14D	4	0.143	0.109	1.176	0.015	0.270	4.000	dec	
Fluoride	mg/L	MW-1D	4	0.283	0.046	1.176	0.229	0.336	4.000	dec	
Fluoride	mg/L	MW-2D	4	1.093	0.194	1.176	0.865	1.320	4.000		
Fluoride	mg/L	MW-3D	4	0.205	0.021	1.176	0.181	0.229	4.000	dec	
Fluoride	mg/L	MW-7D	4	0.380	0.032	1.176	0.343	0.417	4.000		
Fluoride	mg/L	MW-9D	4	0.430	0.026	1.176	0.400	0.460	4.000		
Fluoride	mg/L	MW-9I	4	0.793	0.124	1.176	0.647	0.938	4.000	inc	
Lead, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	mg/L	MW-10D	4	0.057	0.006	1.176	0.049	0.064	0.040	dec	**
Lithium, Total	mg/L	MW-11D	4	0.136	0.007	1.176	0.129	0.144	0.040		**
Lithium, Total	mg/L	MW-12D	4	0.099	0.020	1.176	0.075	0.122	0.040	dec	**
Lithium, Total	mg/L	MW-13D	4	0.084	0.010	1.176	0.072	0.096	0.040		**
Lithium, Total	mg/L	MW-14D	4	0.638	0.204	1.176	0.398	0.878	0.040		**
Lithium, Total	mg/L	MW-1D	4	0.025	0.012	1.176	0.011	0.039	0.040	dec	
Lithium, Total	mg/L	MW-2D	4	0.051	0.012	1.176	0.037	0.064	0.040	dec	
Lithium, Total	mg/L	MW-3D	4	0.010	0.000	1.176	0.010	0.010	0.040	dec	
Lithium, Total	mg/L	MW-7D	4	0.097	0.005	1.176	0.091	0.103	0.040		**
Lithium, Total	mg/L	MW-9D	4	0.029	0.005	1.176	0.024	0.034	0.040	dec	
Lithium, Total	mg/L	MW-9I	4	0.029	0.004	1.176	0.024	0.033	0.040	dec	
Mercury	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.002	0.002		
Mercury	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-7D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	mg/L	MW-10D	4	0.084	0.011	1.176	0.071	0.097	0.100	dec	
Molybdenum, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Molybdenum, Total	mg/L	MW-12D	4	0.205	0.024	1.176	0.176	0.233	0.100	dec	**

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Molybdenum, Total	mg/L	MW-13D	4	0.846	0.057	1.176	0.779	0.912	0.100	inc	**
Molybdenum, Total	mg/L	MW-14D	4	0.233	0.037	1.176	0.189	0.277	0.100		**
Molybdenum, Total	mg/L	MW-1D	4	0.042	0.006	1.176	0.035	0.049	0.100	dec	
Molybdenum, Total	mg/L	MW-2D	4	0.076	0.014	1.176	0.059	0.092	0.100	dec	
Molybdenum, Total	mg/L	MW-3D	4	0.008	0.004	1.176	0.004	0.013	0.100	dec	
Molybdenum, Total	mg/L	MW-7D	4	0.688	0.051	1.176	0.629	0.748	0.100	inc	**
Molybdenum, Total	mg/L	MW-9D	4	0.051	0.005	1.176	0.046	0.056	0.100	dec	
Molybdenum, Total	mg/L	MW-9I	4	0.103	0.021	1.176	0.078	0.127	0.100	dec	
Selenium, Total	mg/L	MW-10D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-12D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-13D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-14D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-1D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-2D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-3D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-7D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-9D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-9I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Thallium, Total	mg/L	MW-10D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-11D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-12D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-13D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-14D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-1D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-2D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-3D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-7D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-9D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-9I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-10D	4	1.272	0.508	1.176	0.674	1.869	5.000		
Total Radium	pCi/L	MW-11D	4	0.871	0.162	1.176	0.680	1.061	5.000		
Total Radium	pCi/L	MW-12D	4	1.037	0.263	1.176	0.727	1.346	5.000		
Total Radium	pCi/L	MW-13D	4	1.311	0.403	1.176	0.837	1.786	5.000		
Total Radium	pCi/L	MW-14D	4	1.833	0.194	1.176	1.605	2.060	5.000		
Total Radium	pCi/L	MW-1D	4	1.975	0.967	1.176	0.838	3.112	5.000		
Total Radium	pCi/L	MW-2D	4	2.693	1.049	1.176	1.458	3.927	5.000		
Total Radium	pCi/L	MW-3D	4	1.765	1.521	1.176	0.000	3.554	5.000		
Total Radium	pCi/L	MW-7D	4	1.253	0.338	1.176	0.855	1.650	5.000		
Total Radium	pCi/L	MW-9D	4	1.188	0.335	1.176	0.795	1.582	5.000		
Total Radium	pCi/L	MW-9I	4	1.350	0.740	1.176	0.480	2.220	5.000		

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 LCL = Lower Confidence Limit
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