



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

**PREPARED FOR:**

**Mr. David Heger  
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**PREPARED BY:**

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**September 21, 2023**



September 21, 2023

Atlas Project No. 170LF01502

**Mr. David M. Heger**  
**Senior Counsel**  
**AES US Services, LLC**  
**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)  
Eagle Valley Generating Station  
Martinsville, Indiana  
ATC Project No. 170LF01502**

Dear Mr. Heger:

The Multi-Unit Ash Pond System at the Eagle Valley Generating Station (EVGS) 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 EVGS 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 DUMPStat<sup>1</sup> (Version 3.0). The DUMPStat program uses statistical tests, procedures, and testing sequences described in *Statistical Methods for Groundwater Monitoring*<sup>2</sup> (Gibbons et. al., 2009). The statistical methods for the EVGS 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.

At the beginning of 2021 the CCR ash pond groundwater monitoring system at the EVGS consisted of twenty-four (24) monitoring wells: MW-1S, MW-1I, MW-1D, MW-2S, MW-2I, MW-2D, MW-3S, MW-3I, MW-4S, MW-4I, MW-4D, MW-6S, MW-6I, MW-6D, MW-7S, MW-8S, MW-9S, MW-9I, MW-9D, MW-10S, MW-11S, MW-11I, MW-11D, and MW-12S. Monitoring wells MW-4S, MW-4I, MW-4D, MW-8S, MW-9S, MW-9I, and MW-9D represented upgradient/background wells, while the remaining represented downgradient wells. The wells were installed in accordance with

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

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



the requirements of Federal CCR Rule § 257.91 between September 28, 2015 and March 17, 2016.

As part of investigations to determine the nature & extent of the release as required by § 257.95(g)(1), several additional wells have been installed, including a three well nest (MW-13S, MW-13I, MW-13D) completed between late June and early July 2019 that is located near the southeast corner of the facility. The MW-13 through MW-16 N&E well clusters were installed to serve as facility downgradient boundary wells pursuant to § 257.95(g)(1)(iii). Subsequent water level gauging and water table mapping, however, showed that the MW-13 well cluster was not hydraulically downgradient as anticipated but was, in fact, upgradient.

The original upgradient/background wells (MW-4S, MW-4I, MW-4D, MW-8S, MW-9S, MW-9I, and MW-9D) were installed at locations that were believed to represent the quality of background groundwater and the quality of groundwater passing the waste boundary. However, based on site-specific data gathered since installation (including data variability caused by the proximity of the background wells to the multiunit boundary and the discharge canal), the wells were replaced with a new background well nest: MW-13S, MW-13I, and MW-13D. This well nest is located in the same hydrostratigraphic unit approximately 1,400 feet east of the multiunit boundary in an area of the site unaffected by a CCR unit. Due to the aforementioned data variability of the former background wells, updates to the background database were paused after May 2019. In the meantime, assessment monitoring activities continued, and the data was compared to the background well data collected between April 2016 and May 2019.

The groundwater monitoring system was re-certified in December 2021 in accordance with the requirements of Federal CCR Rule § 257.91 to account for MW-13S, MW-13I, and MW-13D serving as the new upgradient/background monitoring wells for the CCR well network, replacing the original upgradient/background wells. The new background dataset will be used beginning with November 2021 semi-annual data comparisons.

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 April 2016 through May 2019 for the original upgradient monitoring wells. The facility used this background data for statistical comparisons to the November 2020 and May 2021 semi-annual event datasets. 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.

Included in this attachment are summaries of the historical data for the statistically evaluated parameters for the EVGS. Historical data from groundwater sampling events were imported into the DUMPStat database. **Attachment C, Table 1** contains groundwater quality data collected from original background monitoring wells MW-4S, MW-4I, MW-4D, MW-8S, MW-19S, MW-9I, and MW-9D through May 2019. In the interim to accumulate sufficient data collection from the MW-13 series, these previously certified background wells are used to develop background limits for the development of groundwater protection standards (GWPSs).

Prediction limits based on groundwater quality reported from the background monitoring wells were calculated for each parameter and are presented in **Attachment C, Table 5**.

Due to increases observed in the concentration of certain Appendix IV constituents in the background monitoring wells, updates to the background database were paused following the May 2019 sampling event out of concern the monitoring wells were no longer reflecting groundwater quality unaffected by a CCR unit or facility operation.

## 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. The upgradient and downgradient wells, along with the associated statistical tests are stratified into shallow, intermediate, and deep zones. 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**.

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.

As will be explained in a subsequent section, calculated prediction limits are used in the development of GWPSs for each Appendix IV constituent.

### 1.3 False Positive Rates and Statistical Power

Included in **Attachment C** is the power curve calculated by DUMPStat for the shallow, intermediate, and deep monitoring zones at the site for this interwell monitoring plan. As indicated in the US EPA Unified Guidance<sup>3</sup> 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.

### 1.4 Interwell Statistics Comparisons

Future groundwater quality results at monitoring wells MW-1S, MW-1I, MW-1D, MW-2S, MW-2I, MW-2D, MW-3S, MW-3I, MW-6S, MW-6I, MW-6D, MW-7S, MW-10S, MW-11S, MW-11I, MW-11D, and MW-12S will be statistically compared to results from monitoring wells MW-13S, MW-13I, and MW-13D.

### 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 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 Level<sup>4</sup> 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

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

<sup>4</sup> 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).



Coleman, 2001, Equation 19.5, p. 231)<sup>5</sup> 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- $\alpha$ ) 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.

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**

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

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

## **Attachment A: Groundwater Flow Direction and Rate**

**November 2020**

**Table 1**  
**Gauging Summary**  
**November 9, 2020**  
**Eagle Valley Generating Station**  
**ATC Project No. 17OLF00873**

<b>Well</b>	<b>Date</b>	<b>Time</b>	<b>DTW, from top of Reference Point</b>	<b>Reference Point Elevation (ft MSL)</b>	<b>SWE, ft MSL</b>
MW-1S	11/9/2020	10:25	25.09	612.93	587.84
MW-1I	11/9/2020	10:26	24.54	612.31	587.77
MW-1D	11/9/2020	10:28	21.15	612.91	591.76
MW-2S	11/9/2020	10:15	19.82	608.45	588.63
MW-2I	11/9/2020	10:11	20.32	608.93	588.61
MW-2D	11/9/2020	10:12	20.12	608.72	588.60
MW-3S	11/9/2020	10:04	21.41	610.80	589.39
MW-3I	11/9/2020	10:08	21.68	610.76	589.08
MW-4S	11/9/2020	9:58	19.87	609.94	590.07
MW-4I	11/9/2020	10:01	24.65	614.66	590.01
MW-4D	11/9/2020	10:00	24.72	614.72	590.00
MW-6S	11/9/2020	11:12	Dry to top pump (18.9 ft)	605.99	<587.09
MW-6I	11/9/2020	11:09	19.20	606.00	586.80
MW-6D	11/9/2020	11:15	18.04	604.85	586.81
MW-7S	11/9/2020	12:04	27.91	616.68	588.77
MW-8S	11/9/2020	9:52	Dry to top pump (26.8 ft)	616.67	<589.87
MW-9S	11/9/2020	9:45	28.00	617.52	589.52
MW-9I	11/9/2020	9:41	27.62	617.06	589.44
MW-9D	11/9/2020	9:43	27.95	617.41	589.46
MW-10S	11/9/2020	12:24	27.60	613.70	586.10
MW-10I	11/9/2020	12:15	27.50	613.68	586.18
MW-10D	11/9/2020	12:21	27.35	613.54	586.19
MW-11S	11/9/2020	11:50	39.71	627.29	587.58
MW-11I	11/9/2020	11:45	39.50	627.52	588.02
MW-11D	11/9/2020	11:40	39.70	627.56	587.86
MW-12S	11/9/2020	10:49	20.12	607.26	587.14
MW-13S	11/9/2020	12:32	20.15	606.03	585.88
MW-13I	11/9/2020	12:36	20.32	606.21	585.89
MW-13D	11/9/2020	12:40	20.05	605.86	585.81
MW-14S	11/9/2020	12:59	20.40	607.39	586.99
MW-14I	11/9/2020	12:56	20.17	607.34	587.17
MW-14D	11/9/2020	12:52	20.18	607.33	587.15
MW-15S	11/9/2020	11:10	20.83	607.50	586.67
MW-15I	11/9/2020	11:15	20.80	607.61	586.81
MW-15D	11/9/2020	11:20	20.77	607.51	586.74
MW-16S	11/9/2020	10:21	21.01	609.54	588.53
MW-16I	11/9/2020	10:20	19.97	609.53	589.56
MW-16D	11/9/2020	10:18	21.05	609.60	588.55

Notes:

DTW = Depth to water

SWE = Static Water Elevation

ft MSL = feet above Mean Sea Level



**Flow Rate Calculations - November 2020**  
**AES Indiana Eagle Valley Generating Station**  
 Martinsville, Indiana  
 ATC Project No. 170LF01114

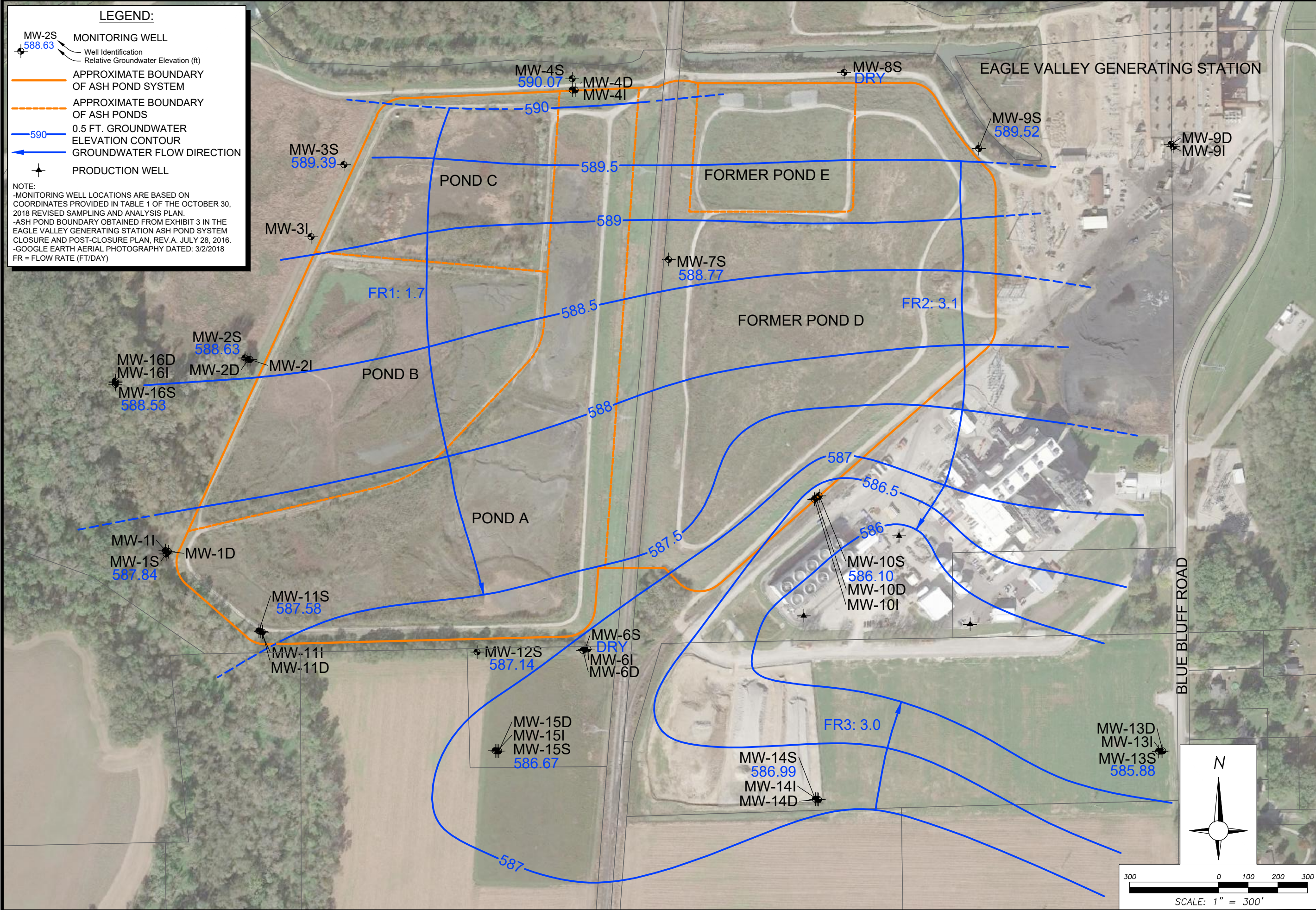
EVS SHALLOW ZONE FIGURE 1		EAGLE VALLEY ASH POND SYSTEM		
11/9/2020	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	2.5	3.5	1
$\Delta L$ (ft)	Flow Line Length	1670	1280	380
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	407	407	407
$I$ ( $\Delta H/\Delta L$ )		0.0015	0.0027	0.0026
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		1.7	3.1	3.0
EVS INTERMEDIATE ZONE FIGURE 2				
11/9/2020	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	2	3	1
$\Delta L$ (ft)	Flow Line Length	1530	1110	290
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	59	59	59
$I$ ( $\Delta H/\Delta L$ )		0.0013	0.0027	0.0034
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		0.22	0.46	0.57
EVS DEEP ZONE FIGURE 3				
11/9/2020	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	3	3.5	1
$\Delta L$ (ft)	Flow Line Length	1640	1310	290
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	72	72	72
$I$ ( $\Delta H/\Delta L$ )		0.0018	0.0027	0.0034
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		0.37	0.56	0.70

Notes

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



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**LEGEND:**

- MW-2S 588.63 MONITORING WELL
- Well Identification
- Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 590 0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

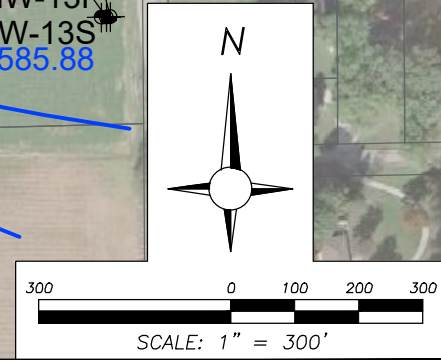
**NOTE:**  
 -MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.  
 -ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.  
 -GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018  
 FR = FLOW RATE (FT/DAY)

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Project Number:	170LF01114
Ckd. By:	KR
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Ckd. Date:	



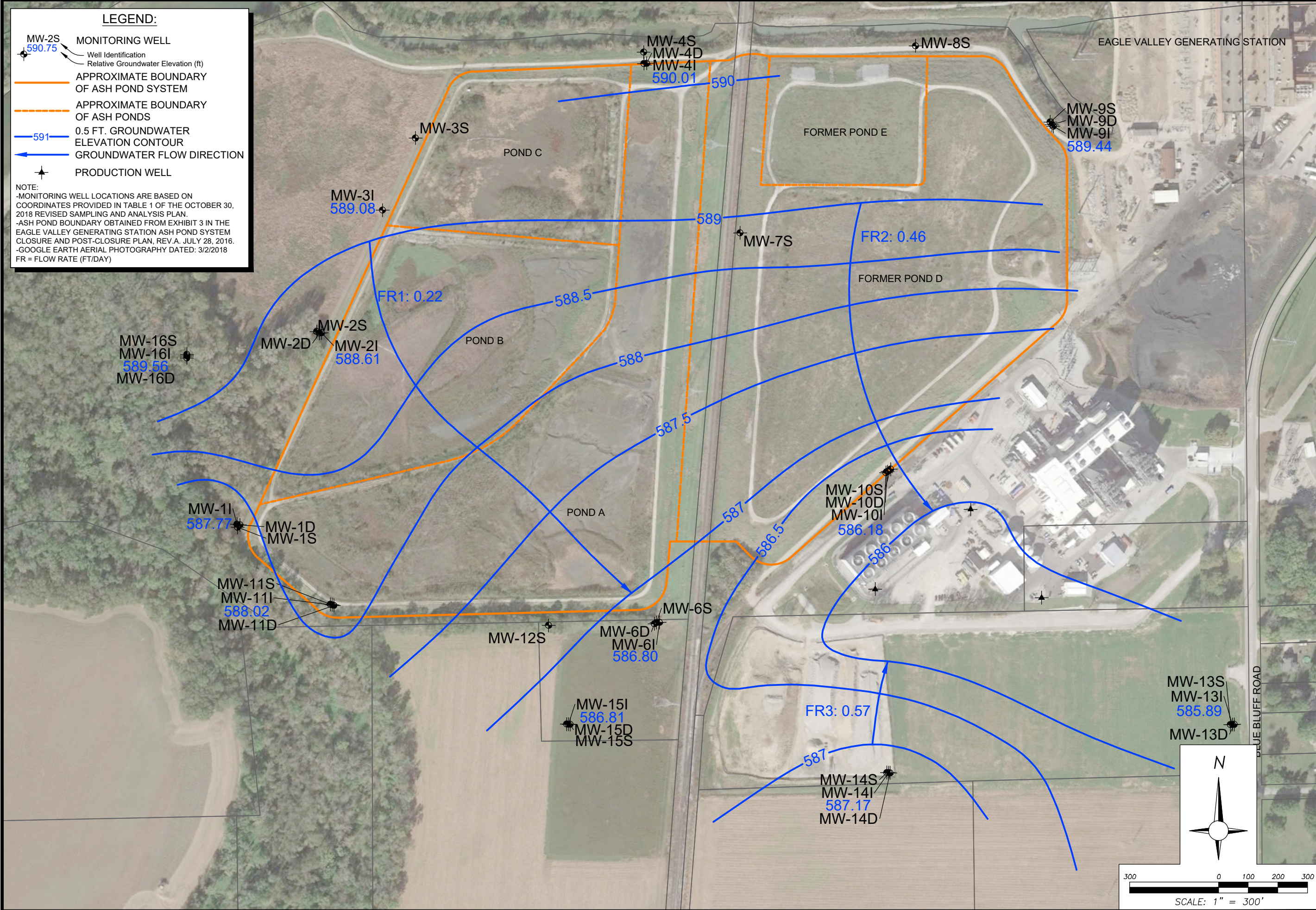
**CCR GROUNDWATER MONITORING SYSTEM-SHALLOW ZONE**  
 AES INDIANA EAGLE VALLEY GENERATING STATION - NOVEMBER 9, 2020  
 4040 BLUE BLUFF ROAD  
 MARTINSVILLE, INDIANA

Date:	12/2022
Scale:	AS SHOWN
Figure:	1





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**LEGEND:**

- MONITORING WELL
- Well Identification
- Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

**NOTE:**

- MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.
- ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.
- GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018
- FR = FLOW RATE (FT/DAY)

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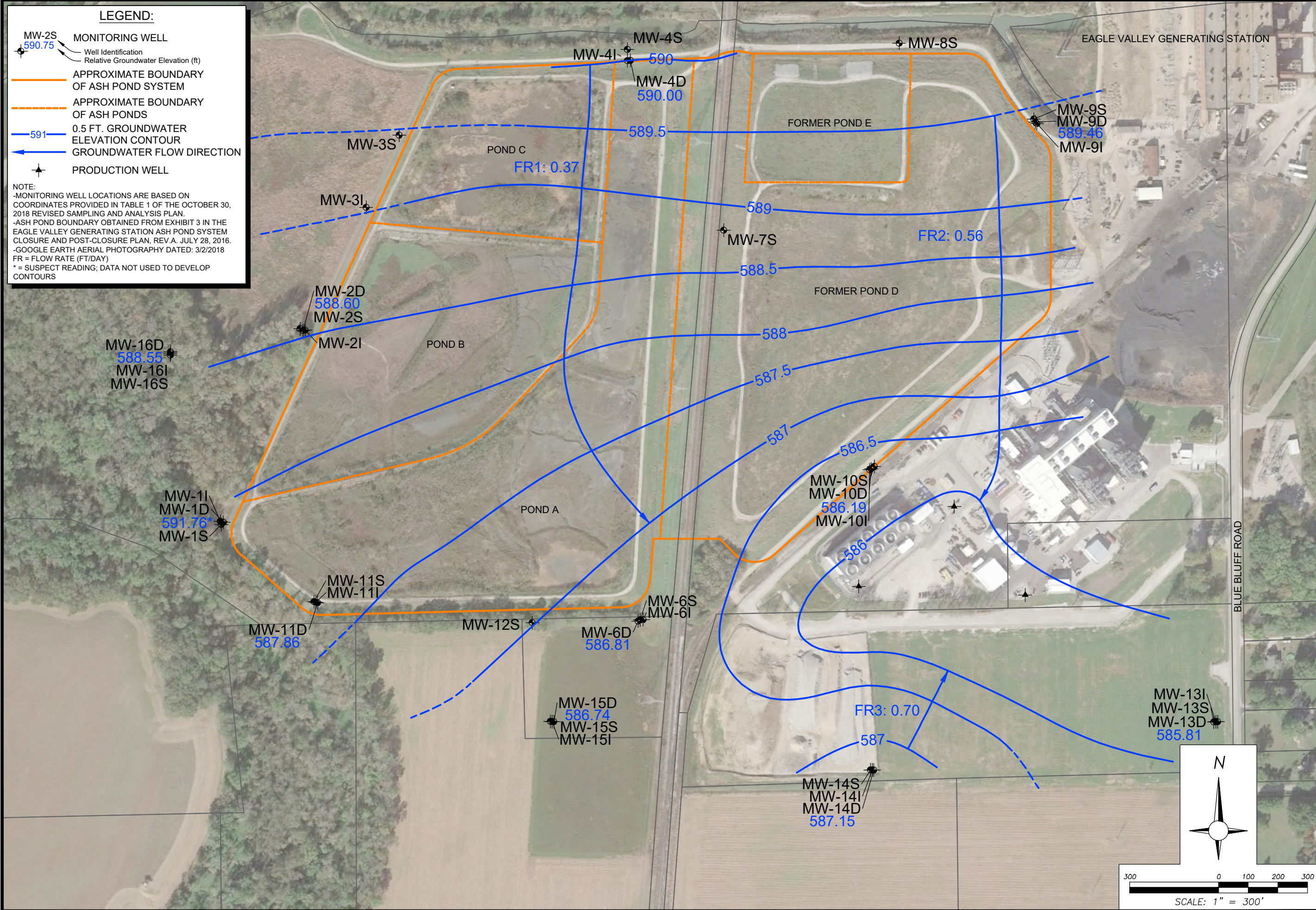


**CCR GROUNDWATER MONITORING SYSTEM - INTERMEDIATE ZONE**  
 IPL EAGLE VALLEY GENERATING STATION - NOVEMBER 9, 2020  
 4040 BLUE BLUFF ROAD  
 MARTINSVILLE, INDIANA

Date:	12/2022
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**LEGEND:**

- MW-2S 590.75 MONITORING WELL
- Well Identification
- Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

**NOTE:**

- MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.
- ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.
- GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018
- FR = FLOW RATE (FT/DAY)
- \* = SUSPECT READING; DATA NOT USED TO DEVELOP CONTOURS

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Project Number:	170LF01114
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Ckd. Date:	



**CCR GROUNDWATER MONITORING SYSTEM - DEEP ZONE**  
 IPL EAGLE VALLEY GENERATING STATION - NOVEMBER 9, 2020  
 4040 BLUE BLUFF ROAD  
 MARTINSVILLE, INDIANA

Date:	12/2022
Scale:	AS SHOWN
Figure:	<b>3</b>



**May 2021**

**Table 1**  
 Gauging Summary  
 May 10, 2021  
 Eagle Valley Generating Station  
 ATC Project No. 170LF00873

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (ft MSL)	SWE, ft MSL
MW-1S	5/10/2021	11:24	22.87	612.93	590.06
MW-1I	5/10/2021	11:26	22.27	612.31	590.04
MW-1D	5/10/2021	11:28	22.90	612.91	590.01
MW-2S	5/10/2021	10:48	17.70	608.45	590.75
MW-2I	5/10/2021	10:50	18.14	608.93	590.79
MW-2D	5/10/2021	10:52	17.90	608.72	590.82
MW-3S	5/10/2021	10:43	19.10	610.80	591.70
MW-3I	5/10/2021	10:46	19.47	610.76	591.29
MW-4S	5/10/2021	10:33	17.98	609.94	591.96
MW-4I	5/10/2021	10:35	22.73	614.66	591.93
MW-4D	5/10/2021	10:37	22.77	614.72	591.95
MW-6S	5/10/2021	12:14	15.47	605.99	590.52
MW-6I	5/10/2021	12:16	15.50	606.00	590.50
MW-6D	5/10/2021	12:18	14.35	604.85	590.50
MW-7S	5/10/2021	12:33	25.24	616.68	591.44
MW-8S	5/10/2021	10:30	24.03	616.67	592.64
MW-9S	5/10/2021	10:23	25.20	617.52	592.32
MW-9I	5/10/2021	10:25	24.68	617.06	592.38
MW-9D	5/10/2021	10:27	25.00	617.41	592.41
MW-10S	5/10/2021	12:40	22.99	613.70	590.71
MW-10I	5/10/2021	12:42	22.86	613.68	590.82
MW-10D	5/10/2021	12:44	22.75	613.54	590.79
MW-11S	5/10/2021	11:40	37.38	627.29	589.91
MW-11I	5/10/2021	11:42	37.55	627.52	589.97
MW-11D	5/10/2021	11:44	37.57	627.56	589.99
MW-12S	5/10/2021	12:11	16.97	607.26	590.29
MW-13S	5/10/2021	9:02	15.58	606.03	590.45
MW-13I	5/10/2021	9:04	15.75	606.21	590.46
MW-13D	5/10/2021	9:06	15.48	605.86	590.38
MW-14S	5/10/2021	9:10	17.05	607.39	590.34
MW-14I	5/10/2021	9:12	17.05	607.34	590.29
MW-14D	5/10/2021	9:14	17.12	607.33	590.21
MW-15S	5/10/2021	11:52	17.60	607.50	589.90
MW-15I	5/10/2021	11:54	17.55	607.61	590.06
MW-15D	5/10/2021	11:56	17.44	607.51	590.07
MW-16S	5/10/2021	11:17	18.60	609.54	590.94
MW-16I	5/10/2021	11:20	18.55	609.53	590.98
MW-16D	5/10/2021	11:22	18.65	609.60	590.95
MW-17S	5/10/2021	10:02	12.80	602.20	589.40
MW-17I	5/10/2021	10:00	13.25	602.69	589.44
MW-17D	5/10/2021	9:58	12.88	602.47	589.59
MW-18S	5/10/2021	9:45	16.55	606.13	589.58
MW-18I	5/10/2021	9:47	16.52	605.82	589.30
MW-18D	5/10/2021	9:49	16.58	606.19	589.61
MW-19S	5/10/2021	9:32	13.17	602.85	589.68
MW-19I	5/10/2021	9:34	13.02	602.69	589.67
MW-19D	5/10/2021	9:36	12.99	602.67	589.68

Notes:

DTW = Depth to water

SWE = Static Water Elevation

ft MSL = feet above Mean Sea Level

**Flow Rate Calculations - May 2021**  
 AES Indiana Eagle Valley Generating Station  
 Martinsville, Indiana  
 ATC Project No. 170LF01114

EVS SHALLOW ZONE FIGURE 1		EAGLE VALLEY ASH POND SYSTEM		
5/10/2021	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	1.5	1	0.5
$\Delta L$ (ft)	Flow Line Length	2080	870	2090
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	407	407	407
$I$ ( $\Delta H/\Delta L$ )		0.00072	0.0011	0.00024
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		0.84	1.3	0.28
EVS INTERMEDIATE ZONE FIGURE 2				
5/10/2021	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	1.5	1.5	1
$\Delta L$ (ft)	Flow Line Length	1800	2000	1260
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	59	59	59
$I$ ( $\Delta H/\Delta L$ )		0.00083	0.00075	0.00079
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		0.14	0.13	0.13
EVS DEEP ZONE FIGURE 3				
5/10/2021	Flow Rate Line	FR1	FR2	FR3
$v = Q/n_e A^1 = Kl/n_e$				
$\Delta H$ (ft)	Potentiometric Surface Hydraulic Head Change	2	1.5	0.5
$\Delta L$ (ft)	Flow Line Length	2080	1180	1330
K (hydraulic conductivity (ft/day))	(2016 C/PC Plan)	72	72	72
$I$ ( $\Delta H/\Delta L$ )		0.00096	0.0013	0.00038
$n_e$ (porosity, dimensionless)	(2016 C/PC Plan)	0.35	0.35	0.35
$v$ (ft/day)		0.20	0.27	0.08

Notes

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



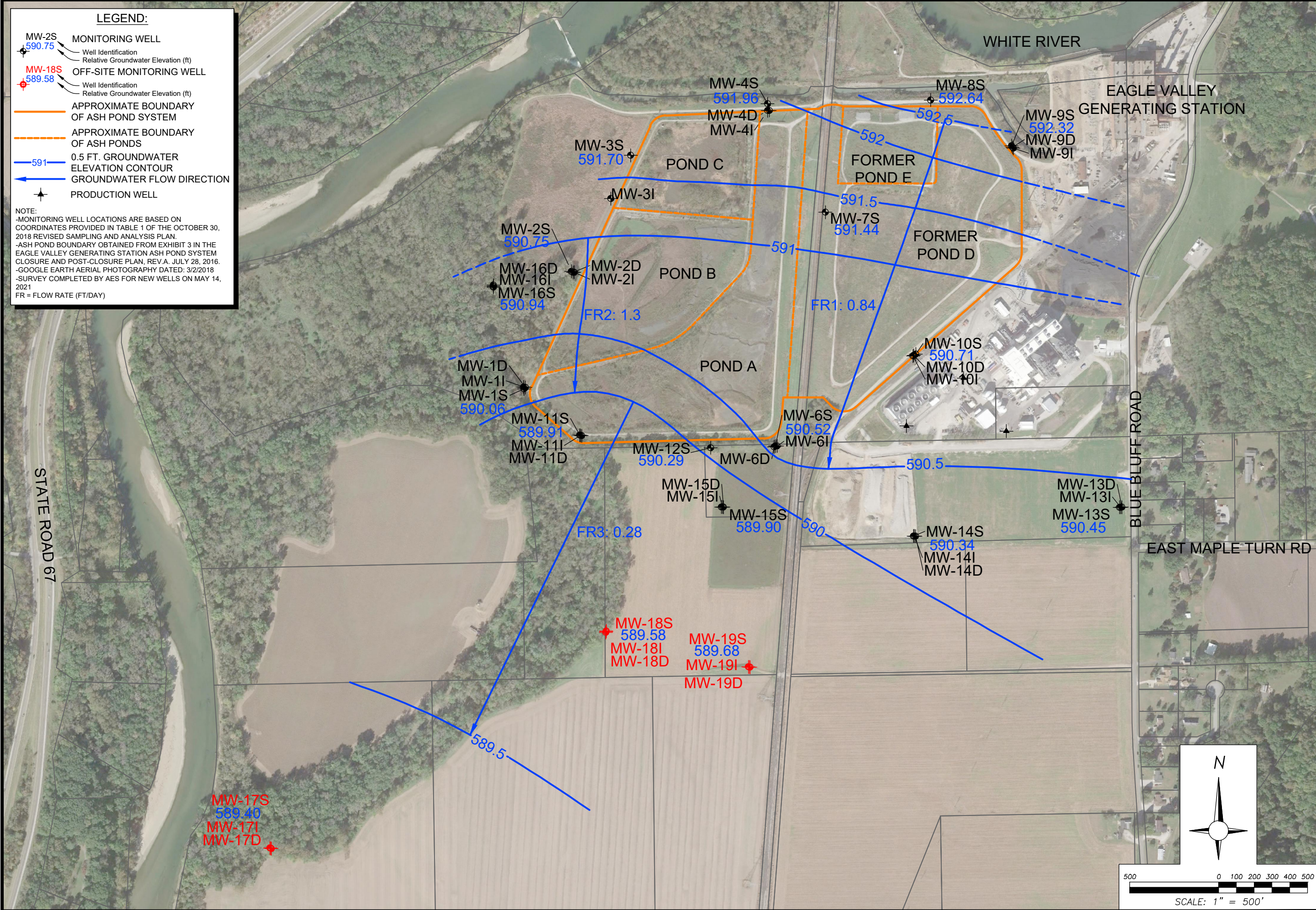
H:\2022\AES INDIANA\EAGLE VALLEY\170LF01114\170LF01114--POT SHALLOW.DWG, EAGLE

**LEGEND:**

- MW-2S 590.75 MONITORING WELL  
Well Identification  
Relative Groundwater Elevation (ft)
- MW-18S 589.58 OFF-SITE MONITORING WELL  
Well Identification  
Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 591 0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

**NOTE:**

- MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.
- ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.
- GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018
- SURVEY COMPLETED BY AES FOR NEW WELLS ON MAY 14, 2021
- FR = FLOW RATE (FT/DAY)



Drn. By:	BH
Project Number:	170LF01114
Ckd. By:	KR
Drawing File:	SEE LOWER LEFT
App'd By:	
Ckd. Date:	



**CCR GROUNDWATER MONITORING SYSTEM - SHALLOW ZONE**

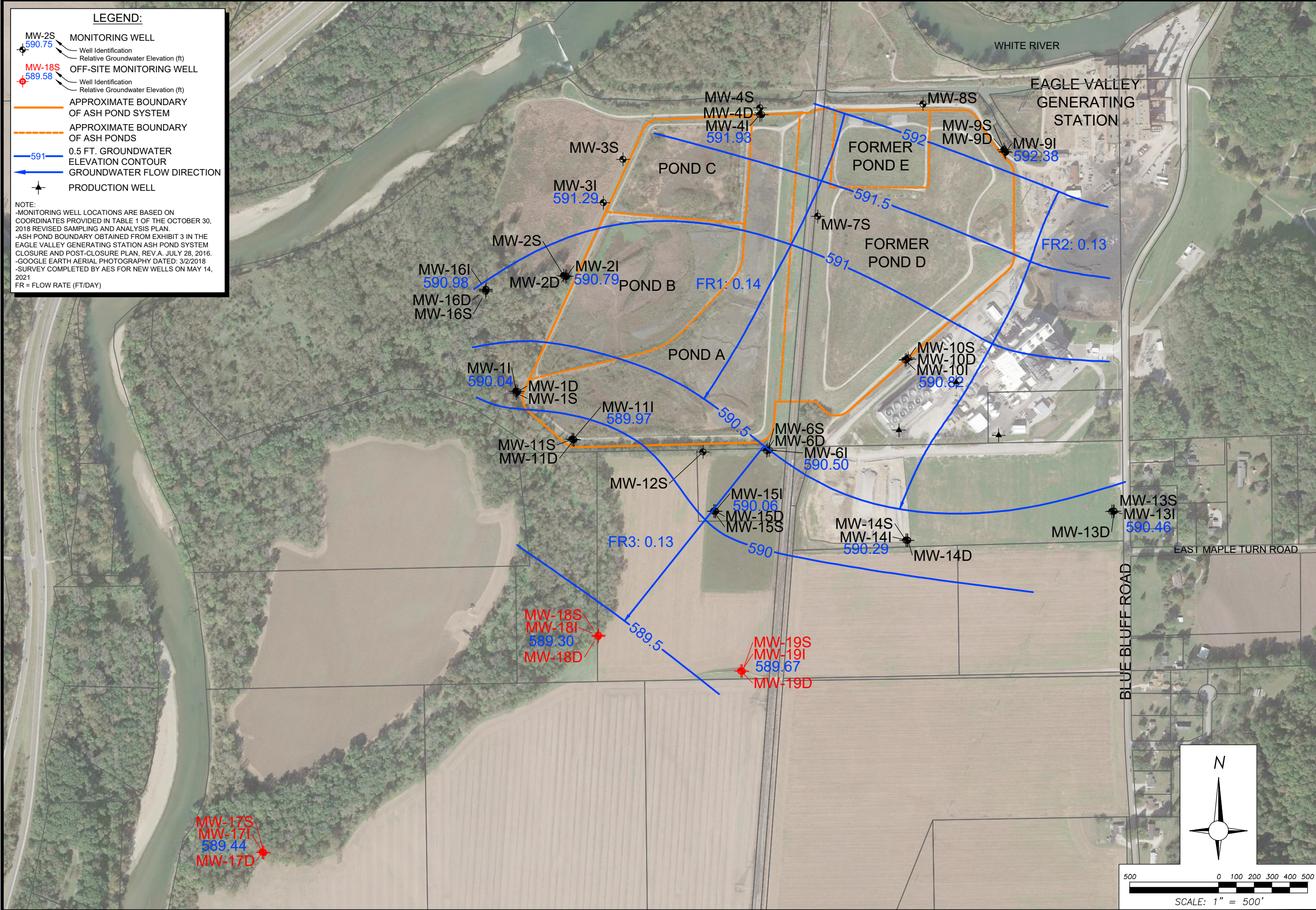
IPL EAGLE VALLEY GENERATING STATION - MAY 10, 2021

4040 BLUE BLUFF ROAD  
MARTINSVILLE, INDIANA

Date:	12/2022
Scale:	AS SHOWN
Figure:	1



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**LEGEND:**

- MW-2S  
590.75 MONITORING WELL
- Well Identification
- Relative Groundwater Elevation (ft)
- MW-18S  
589.58 OFF-SITE MONITORING WELL
- Well Identification
- Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 591 0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

NOTE:  
 -MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.  
 -ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A, JULY 28, 2016.  
 -GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018  
 -SURVEY COMPLETED BY AES FOR NEW WELLS ON MAY 14, 2021  
 FR = FLOW RATE (FT/DAY)

Drn. By:	BH
Project Number:	170LF01114
Ckd. By:	KR
Drawing File:	SEE LOWER LEFT
App'd By:	
Ckd. Date:	



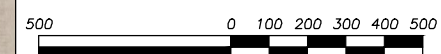
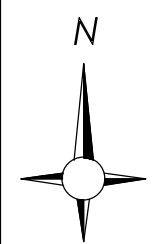
**CCR GROUNDWATER MONITORING SYSTEM - INTERMEDIATE ZONE**

IPL EAGLE VALLEY GENERATING STATION - MAY 10, 2021  
 4040 BLUE BLUFF ROAD  
 MARTINSVILLE, INDIANA

Date:  
12/2022

Scale:  
AS SHOWN

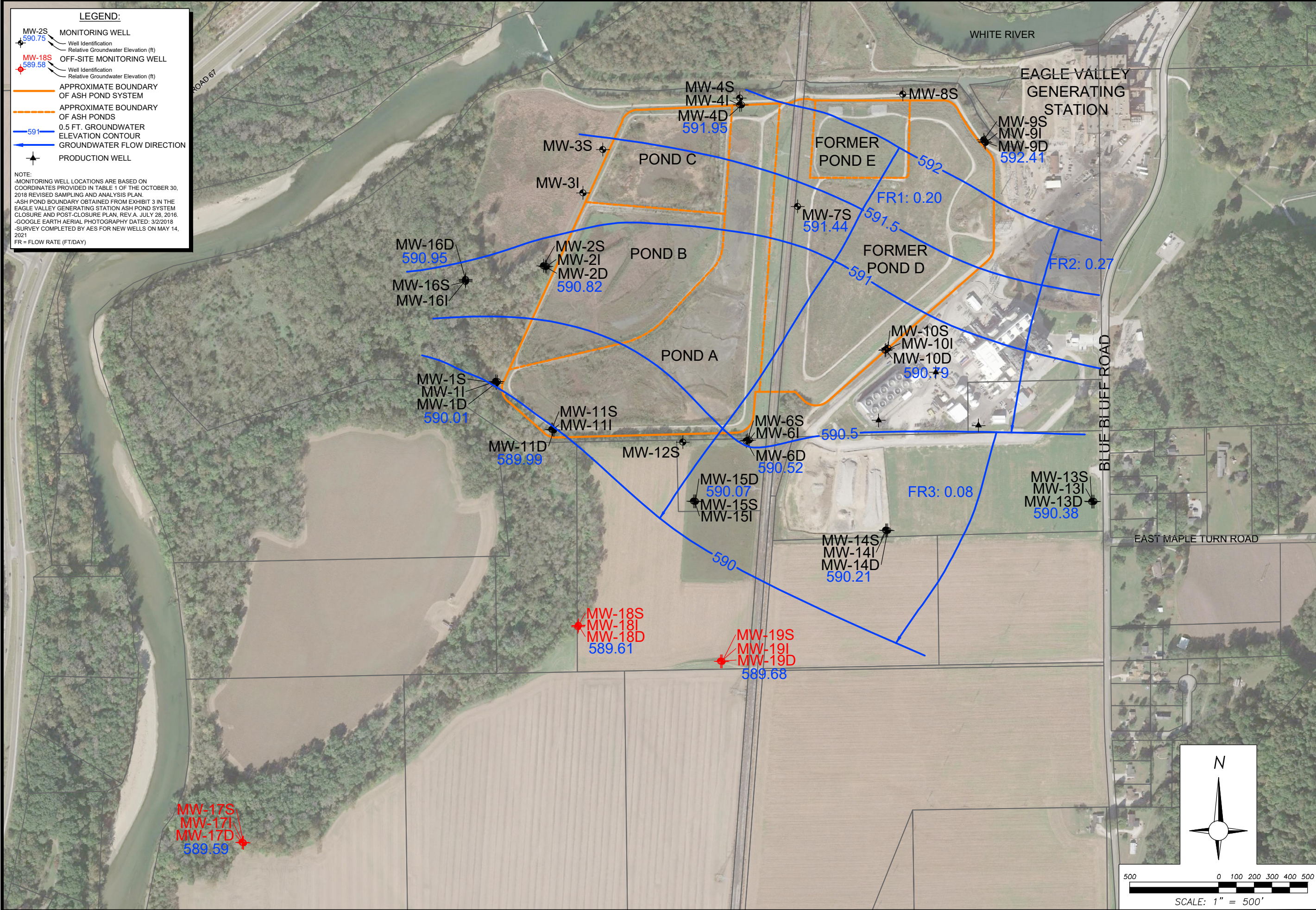
Figure:  
**2**



SCALE: 1" = 500'



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**LEGEND:**

- MW-2S  
590.75  
MONITORING WELL
- Well Identification  
Relative Groundwater Elevation (ft)
- MW-18S  
589.58  
OFF-SITE MONITORING WELL
- Well Identification  
Relative Groundwater Elevation (ft)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- 591  
0.5 FT. GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PRODUCTION WELL

**NOTE:**  
 -MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.  
 -ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV. A, JULY 28, 2016.  
 -GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 3/2/2018  
 -SURVEY COMPLETED BY AES FOR NEW WELLS ON MAY 14, 2021  
 FR = FLOW RATE (FT/DAY)

Drn. By:	BH
Project Number:	170LF01114
Ckd. By:	KR
Drawing File:	SEE LOWER LEFT
App'd By:	
Ckd. Date:	



**CCR GROUNDWATER MONITORING SYSTEM - DEEP ZONE**  
 IPL EAGLE VALLEY GENERATING STATION - MAY 10, 2021  
 4040 BLUE BLUFF ROAD  
 MARTINSVILLE, INDIANA

Date:	12/2022
Scale:	AS SHOWN
Figure:	<b>3</b>



## **Attachment B: Laboratory Certificates of Analyses**

**November 2020**

February 01, 2021

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

RE: Project: Eagle Valley Prof 1 Report 1  
Pace Project No.: 50272915

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 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

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

## CERTIFICATIONS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50272915001	MW-3S	Water	11/10/20 13:51	11/11/20 14:50
50272915002	MW-4S	Water	11/10/20 12:39	11/11/20 14:50
50272915003	MW-4I	Water	11/10/20 11:51	11/11/20 14:50
50272915004	MW-4D	Water	11/10/20 10:56	11/11/20 14:50
50272915005	MW-6I	Water	11/10/20 14:15	11/11/20 14:50
50272915006	MW-6D	Water	11/10/20 13:30	11/11/20 14:50
50272915007	MW-9S	Water	11/10/20 10:45	11/11/20 14:50
50272915008	MW-9I	Water	11/10/20 12:20	11/11/20 14:50
50272915009	MW-9D	Water	11/10/20 11:35	11/11/20 14:50
50272915010	DUP 1	Water	11/10/20 08:00	11/11/20 14:50
50272915011	DUP 2	Water	11/10/20 08:00	11/11/20 14:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272915001	MW-3S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50272915002	MW-4S	SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50272915003	MW-4I	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272915004	MW-4D	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
50272915005	MW-6I	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	HBS	3	PASI-I
		EPA 6010	JPK	4	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: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50272915006	MW-6D	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272915007	MW-9S	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272915008	MW-9I	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272915009	MW-9D	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50272915010	DUP 1	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	4	PASI-I

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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
50272915011	DUP 2	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50272915001</b>	<b>MW-3S</b>					
EPA 9056	Chloride	87.3	mg/L	2.5	11/24/20 14:09	
EPA 9056	Fluoride	0.39	mg/L	0.10	11/24/20 13:52	
EPA 9056	Sulfate	74.0	mg/L	2.5	11/24/20 14:09	
EPA 6010	Boron	134	ug/L	100	11/19/20 22:53	
EPA 6010	Calcium	63500	ug/L	1000	11/19/20 22:53	
EPA 6010	Molybdenum	77.4	ug/L	10.0	11/19/20 22:53	
EPA 6020	Barium	80.0	ug/L	1.0	11/18/20 07:34	
EPA 903.1	Radium-226	-0.392 ± 0.481 (1.14) C:NA T:86%	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	0.293 ± 0.389 (0.830) C:67% T:87%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.293 ± 0.870 (1.97)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	423	mg/L	10.0	11/16/20 15:07	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/13/20 11:28	H3
<b>50272915002</b>	<b>MW-4S</b>					
EPA 9056	Chloride	476	mg/L	25.0	11/24/20 15:50	
EPA 9056	Fluoride	0.42	mg/L	0.10	11/24/20 15:16	
EPA 9056	Sulfate	1330	mg/L	25.0	11/24/20 15:50	
EPA 6010	Boron	4510	ug/L	100	11/19/20 22:56	
EPA 6010	Calcium	419000	ug/L	5000	11/19/20 23:39	
EPA 6010	Lithium	143	ug/L	20.0	11/19/20 22:56	
EPA 6010	Molybdenum	264	ug/L	10.0	11/19/20 22:56	
EPA 6020	Arsenic	9.0	ug/L	1.0	11/18/20 08:07	
EPA 6020	Barium	246	ug/L	2.0	11/19/20 08:56	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/18/20 08:07	
EPA 903.1	Radium-226	0.0671 ± 0.474 (0.946) C:NA T:88%	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	0.655 ± 0.529 (1.06) C:65% T:80%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.722 ± 1.00 (2.01)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	2830	mg/L	40.0	11/16/20 15:07	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:30	H3
<b>50272915003</b>	<b>MW-4I</b>					
EPA 9056	Chloride	83.9	mg/L	2.5	11/24/20 16:23	
EPA 9056	Fluoride	0.40	mg/L	0.10	11/24/20 16:06	
EPA 9056	Sulfate	69.0	mg/L	2.5	11/24/20 16:23	
EPA 6010	Boron	177	ug/L	100	11/19/20 22:58	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50272915003</b>	<b>MW-4I</b>					
EPA 6010	Calcium	76600	ug/L	1000	11/19/20 22:58	
EPA 6010	Molybdenum	12.5	ug/L	10.0	11/19/20 22:58	
EPA 6020	Arsenic	4.7	ug/L	1.0	11/18/20 08:11	
EPA 6020	Barium	79.9	ug/L	1.0	11/18/20 08:11	
EPA 903.1	Radium-226	0.657 ± 0.429 (0.439)	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	C:NA T:88% 0.515 ± 0.463 (0.944)	pCi/L		12/09/20 12:17	
		C:63% T:86%				
Total Radium Calculation	Total Radium	1.17 ± 0.892 (1.38)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	426	mg/L	10.0	11/16/20 15:08	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:31	H3
<b>50272915004</b>	<b>MW-4D</b>					
EPA 9056	Chloride	92.8	mg/L	2.5	11/24/20 16:57	
EPA 9056	Fluoride	0.31	mg/L	0.10	11/24/20 16:40	
EPA 9056	Sulfate	74.4	mg/L	2.5	11/24/20 16:57	
EPA 6010	Boron	136	ug/L	100	11/19/20 23:00	
EPA 6010	Calcium	75100	ug/L	1000	11/19/20 23:00	
EPA 6010	Molybdenum	11.8	ug/L	10.0	11/19/20 23:00	
EPA 6020	Arsenic	7.1	ug/L	1.0	11/18/20 08:16	
EPA 6020	Barium	69.3	ug/L	1.0	11/18/20 08:16	
EPA 903.1	Radium-226	0.646 ± 0.445 (0.475)	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	C:NA T:90% 0.863 ± 0.579 (1.12)	pCi/L		12/09/20 12:17	
		C:62% T:77%				
Total Radium Calculation	Total Radium	1.51 ± 1.02 (1.60)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	438	mg/L	10.0	11/16/20 15:10	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:32	H3
<b>50272915005</b>	<b>MW-6I</b>					
EPA 9056	Chloride	99.7	mg/L	2.5	11/24/20 17:30	
EPA 9056	Fluoride	0.29	mg/L	0.10	11/24/20 17:14	
EPA 9056	Sulfate	128	mg/L	2.5	11/24/20 17:30	
EPA 6010	Boron	4840	ug/L	100	11/19/20 23:03	
EPA 6010	Calcium	97000	ug/L	1000	11/19/20 23:03	
EPA 6010	Lithium	122	ug/L	20.0	11/19/20 23:03	
EPA 6010	Molybdenum	229	ug/L	10.0	11/19/20 23:03	
EPA 6020	Barium	49.3	ug/L	1.0	11/18/20 08:20	

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50272915005</b>	<b>MW-6I</b>					
EPA 903.1	Radium-226	0.929 ± 0.809 (1.25) C:NA T:84%	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	0.159 ± 0.317 (0.699) C:69% T:86%	pCi/L		12/09/20 12:18	
Total Radium Calculation	Total Radium	1.09 ± 1.13 (1.95)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	562	mg/L	10.0	11/16/20 15:10	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/13/20 11:34	H3
<b>50272915006</b>	<b>MW-6D</b>					
EPA 9056	Chloride	110	mg/L	2.5	11/24/20 18:37	
EPA 9056	Fluoride	0.17	mg/L	0.10	11/24/20 18:20	
EPA 9056	Sulfate	130	mg/L	2.5	11/24/20 18:37	
EPA 6010	Boron	4350	ug/L	100	11/19/20 23:30	
EPA 6010	Calcium	85000	ug/L	1000	11/19/20 23:30	
EPA 6010	Lithium	81.7	ug/L	20.0	11/19/20 23:30	
EPA 6010	Molybdenum	210	ug/L	10.0	11/19/20 23:30	
EPA 6020	Barium	48.6	ug/L	1.0	11/18/20 08:25	
EPA 903.1	Radium-226	0.521 ± 0.545 (0.853) C:NA T:86%	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	0.560 ± 0.402 (0.785) C:74% T:85%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	1.08 ± 0.947 (1.64)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	552	mg/L	10.0	11/16/20 15:10	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 11:35	H3
<b>50272915007</b>	<b>MW-9S</b>					
EPA 9056	Chloride	424	mg/L	25.0	11/24/20 19:25	
EPA 9056	Fluoride	0.39	mg/L	0.10	11/24/20 19:09	
EPA 9056	Sulfate	1070	mg/L	25.0	11/24/20 19:25	
EPA 6010	Boron	3180	ug/L	100	11/19/20 23:18	
EPA 6010	Calcium	357000	ug/L	5000	11/19/20 23:37	
EPA 6010	Lithium	109	ug/L	20.0	11/19/20 23:18	
EPA 6010	Molybdenum	156	ug/L	10.0	11/19/20 23:18	
EPA 6020	Arsenic	6.3	ug/L	1.0	11/18/20 08:39	
EPA 6020	Barium	115	ug/L	1.0	11/18/20 08:39	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/18/20 08:39	

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50272915007</b>	<b>MW-9S</b>					
EPA 903.1	Radium-226	-0.178 ± 0.507 (1.07) C:NA T:85%	pCi/L		12/09/20 14:08	
EPA 904.0	Radium-228	0.618 ± 0.417 (0.799) C:70% T:88%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.618 ± 0.924 (1.87)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	2290	mg/L	40.0	11/16/20 15:11	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/13/20 11:36	H3
<b>50272915008</b>	<b>MW-9I</b>					
EPA 9056	Chloride	94.4	mg/L	2.5	11/24/20 19:58	
EPA 9056	Fluoride	0.45	mg/L	0.10	11/24/20 19:42	
EPA 9056	Sulfate	75.4	mg/L	2.5	11/24/20 19:58	
EPA 6010	Boron	142	ug/L	100	11/19/20 23:21	
EPA 6010	Calcium	78400	ug/L	1000	11/19/20 23:21	
EPA 6010	Molybdenum	14.5	ug/L	10.0	11/19/20 23:21	
EPA 6020	Barium	81.9	ug/L	1.0	11/18/20 08:44	
EPA 6020	Cobalt	1.2	ug/L	1.0	11/18/20 08:44	
EPA 903.1	Radium-226	0.318 ± 0.415 (0.685) C:NA T:81%	pCi/L		12/09/20 14:23	
EPA 904.0	Radium-228	0.109 ± 0.455 (1.03) C:62% T:86%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.427 ± 0.870 (1.72)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	440	mg/L	10.0	11/16/20 15:11	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	11/13/20 11:37	H3
<b>50272915009</b>	<b>MW-9D</b>					
EPA 9056	Chloride	44.9	mg/L	2.5	11/24/20 20:30	
EPA 9056	Fluoride	0.13	mg/L	0.10	11/24/20 20:14	
EPA 9056	Sulfate	38.6	mg/L	2.5	11/24/20 20:30	
EPA 6010	Calcium	97500	ug/L	1000	11/19/20 23:23	
EPA 6020	Barium	105	ug/L	1.0	11/18/20 08:48	
EPA 903.1	Radium-226	0.395 ± 0.369 (0.523) C:NA T:95%	pCi/L		12/09/20 14:23	

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50272915009</b>	<b>MW-9D</b>					
EPA 904.0	Radium-228	0.444 ± 0.441 (0.910) C:64% T:86%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.839 ± 0.810 (1.43)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	426	mg/L	10.0	11/16/20 15:11	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/13/20 11:38	H3
<b>50272915010</b>	<b>DUP 1</b>					
EPA 9056	Chloride	87.4	mg/L	25.0	11/24/20 21:36	
EPA 9056	Fluoride	0.42	mg/L	0.10	11/24/20 21:19	
EPA 9056	Sulfate	79.4	mg/L	25.0	11/24/20 21:36	
EPA 6010	Boron	138	ug/L	100	11/19/20 23:25	
EPA 6010	Calcium	78800	ug/L	1000	11/19/20 23:25	
EPA 6010	Molybdenum	13.6	ug/L	10.0	11/19/20 23:25	
EPA 6020	Barium	85.0	ug/L	1.0	11/18/20 08:53	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/18/20 08:53	
EPA 903.1	Radium-226	0.452 ± 0.525 (0.847) C:NA T:91%	pCi/L		12/09/20 14:08	
EPA 904.0	Radium-228	0.592 ± 0.456 (0.906) C:65% T:89%	pCi/L		12/09/20 12:16	
Total Radium Calculation	Total Radium	1.04 ± 0.981 (1.75)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	448	mg/L	10.0	11/16/20 15:11	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:42	H3
<b>50272915011</b>	<b>DUP 2</b>					
EPA 9056	Chloride	483	mg/L	25.0	11/24/20 22:08	
EPA 9056	Fluoride	0.44	mg/L	0.10	11/24/20 21:52	
EPA 9056	Sulfate	1340	mg/L	25.0	11/24/20 22:08	
EPA 6010	Boron	4460	ug/L	100	11/19/20 23:28	
EPA 6010	Calcium	399000	ug/L	5000	11/19/20 23:41	
EPA 6010	Lithium	141	ug/L	20.0	11/19/20 23:28	
EPA 6010	Molybdenum	262	ug/L	10.0	11/19/20 23:28	
EPA 6020	Arsenic	9.1	ug/L	1.0	11/18/20 08:58	
EPA 6020	Barium	255	ug/L	2.0	11/19/20 09:01	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/18/20 08:58	
EPA 903.1	Radium-226	0.000 ± 0.295 (0.600) C:NA T:88%	pCi/L		12/09/20 14:08	

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50272915011</b>	<b>DUP 2</b>					
EPA 904.0	Radium-228	0.629 ± 0.442 (0.857) C:64% T:89%	pCi/L		12/09/20 12:17	
Total Radium Calculation	Total Radium	0.629 ± 0.737 (1.46)	pCi/L		12/10/20 10:21	
SM 2540C	Total Dissolved Solids	2760	mg/L	40.0	11/16/20 15:12	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 11:44	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-3S	Lab ID: 50272915001	Collected: 11/10/20 13:51	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>87.3</b>	mg/L	2.5	10		11/24/20 14:09	16887-00-6	
Fluoride	<b>0.39</b>	mg/L	0.10	1		11/24/20 13:52	16984-48-8	
Sulfate	<b>74.0</b>	mg/L	2.5	10		11/24/20 14:09	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>134</b>	ug/L	100	1	11/19/20 06:15	11/19/20 22:53	7440-42-8	
Calcium	<b>63500</b>	ug/L	1000	1	11/19/20 06:15	11/19/20 22:53	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 22:53	7439-93-2	
Molybdenum	<b>77.4</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 22:53	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 07:34	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 07:34	7440-38-2	
Barium	<b>80.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 07:34	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 07:34	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 07:34	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>423</b>	mg/L	10.0	1		11/16/20 15:07		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.4</b>	Std. Units	0.10	1		11/13/20 11:28		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-4S		Lab ID: 50272915002	Collected: 11/10/20 12:39	Received: 11/11/20 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	<b>476</b>	mg/L	25.0	100		11/24/20 15:50	16887-00-6	
Fluoride	<b>0.42</b>	mg/L	0.10	1		11/24/20 15:16	16984-48-8	
Sulfate	<b>1330</b>	mg/L	25.0	100		11/24/20 15:50	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	<b>4510</b>	ug/L	100	1	11/19/20 06:15	11/19/20 22:56	7440-42-8	
Calcium	<b>419000</b>	ug/L	5000	5	11/19/20 06:15	11/19/20 23:39	7440-70-2	
Lithium	<b>143</b>	ug/L	20.0	1	11/19/20 06:15	11/19/20 22:56	7439-93-2	
Molybdenum	<b>264</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 22:56	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:07	7440-36-0	
Arsenic	<b>9.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:07	7440-38-2	
Barium	<b>246</b>	ug/L	2.0	2	11/17/20 11:35	11/19/20 08:56	7440-39-3	
Cobalt	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:07	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	<b>2830</b>	mg/L	40.0	1		11/16/20 15:07		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 11:30		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-4I	Lab ID: 50272915003	Collected: 11/10/20 11:51	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	<b>83.9</b>	mg/L	2.5	10		11/24/20 16:23	16887-00-6	
Fluoride	<b>0.40</b>	mg/L	0.10	1		11/24/20 16:06	16984-48-8	
Sulfate	<b>69.0</b>	mg/L	2.5	10		11/24/20 16:23	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	<b>177</b>	ug/L	100	1	11/19/20 06:15	11/19/20 22:58	7440-42-8	
Calcium	<b>76600</b>	ug/L	1000	1	11/19/20 06:15	11/19/20 22:58	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 22:58	7439-93-2	
Molybdenum	<b>12.5</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 22:58	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:11	7440-36-0	
Arsenic	<b>4.7</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:11	7440-38-2	
Barium	<b>79.9</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:11	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:11	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:11	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	<b>426</b>	mg/L	10.0	1		11/16/20 15:08		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 11:31		H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-4D	Lab ID: 50272915004	Collected: 11/10/20 10:56	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	92.8	mg/L	2.5	10		11/24/20 16:57	16887-00-6	
Fluoride	0.31	mg/L	0.10	1		11/24/20 16:40	16984-48-8	
Sulfate	74.4	mg/L	2.5	10		11/24/20 16:57	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	136	ug/L	100	1	11/19/20 06:15	11/19/20 23:00	7440-42-8	
Calcium	75100	ug/L	1000	1	11/19/20 06:15	11/19/20 23:00	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:00	7439-93-2	
Molybdenum	11.8	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:00	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:16	7440-36-0	
Arsenic	7.1	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:16	7440-38-2	
Barium	69.3	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:16	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:16	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	438	mg/L	10.0	1		11/16/20 15:10		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/13/20 11:32		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-6I	Lab ID: 50272915005	Collected: 11/10/20 14:15	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>99.7</b>	mg/L	2.5	10		11/24/20 17:30	16887-00-6	
Fluoride	<b>0.29</b>	mg/L	0.10	1		11/24/20 17:14	16984-48-8	
Sulfate	<b>128</b>	mg/L	2.5	10		11/24/20 17:30	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>4840</b>	ug/L	100	1	11/19/20 06:15	11/19/20 23:03	7440-42-8	
Calcium	<b>97000</b>	ug/L	1000	1	11/19/20 06:15	11/19/20 23:03	7440-70-2	
Lithium	<b>122</b>	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:03	7439-93-2	
Molybdenum	<b>229</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:03	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:20	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:20	7440-38-2	
Barium	<b>49.3</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:20	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:20	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:20	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>562</b>	mg/L	10.0	1		11/16/20 15:10		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.4</b>	Std. Units	0.10	1		11/13/20 11:34		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-6D	Lab ID: 50272915006	Collected: 11/10/20 13:30	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>110</b>	mg/L	2.5	10		11/24/20 18:37	16887-00-6	
Fluoride	<b>0.17</b>	mg/L	0.10	1		11/24/20 18:20	16984-48-8	
Sulfate	<b>130</b>	mg/L	2.5	10		11/24/20 18:37	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>4350</b>	ug/L	100	1	11/19/20 06:15	11/19/20 23:30	7440-42-8	
Calcium	<b>85000</b>	ug/L	1000	1	11/19/20 06:15	11/19/20 23:30	7440-70-2	
Lithium	<b>81.7</b>	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:30	7439-93-2	
Molybdenum	<b>210</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:30	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:25	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:25	7440-38-2	
Barium	<b>48.6</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:25	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:25	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:25	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>552</b>	mg/L	10.0	1		11/16/20 15:10		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		11/13/20 11:35		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-9S		Lab ID: 50272915007	Collected: 11/10/20 10:45	Received: 11/11/20 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	<b>424</b>	mg/L	25.0	100		11/24/20 19:25	16887-00-6	
Fluoride	<b>0.39</b>	mg/L	0.10	1		11/24/20 19:09	16984-48-8	
Sulfate	<b>1070</b>	mg/L	25.0	100		11/24/20 19:25	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	<b>3180</b>	ug/L	100	1	11/19/20 06:15	11/19/20 23:18	7440-42-8	
Calcium	<b>357000</b>	ug/L	5000	5	11/19/20 06:15	11/19/20 23:37	7440-70-2	
Lithium	<b>109</b>	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:18	7439-93-2	
Molybdenum	<b>156</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:18	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:39	7440-36-0	
Arsenic	<b>6.3</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:39	7440-38-2	
Barium	<b>115</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:39	7440-39-3	
Cobalt	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:39	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:39	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	<b>2290</b>	mg/L	40.0	1		11/16/20 15:11		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	<b>7.3</b>	Std. Units	0.10	1		11/13/20 11:36		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-9I	Lab ID: 50272915008	Collected: 11/10/20 12:20	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	94.4	mg/L	2.5	10		11/24/20 19:58	16887-00-6	
Fluoride	0.45	mg/L	0.10	1		11/24/20 19:42	16984-48-8	
Sulfate	75.4	mg/L	2.5	10		11/24/20 19:58	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	142	ug/L	100	1	11/19/20 06:15	11/19/20 23:21	7440-42-8	
Calcium	78400	ug/L	1000	1	11/19/20 06:15	11/19/20 23:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:21	7439-93-2	
Molybdenum	14.5	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:21	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:44	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:44	7440-38-2	
Barium	81.9	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:44	7440-39-3	
Cobalt	1.2	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:44	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:44	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	440	mg/L	10.0	1		11/16/20 15:11		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		11/13/20 11:37		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: MW-9D	Lab ID: 50272915009	Collected: 11/10/20 11:35	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	44.9	mg/L	2.5	10		11/24/20 20:30	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		11/24/20 20:14	16984-48-8	
Sulfate	38.6	mg/L	2.5	10		11/24/20 20:30	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	ND	ug/L	100	1	11/19/20 06:15	11/19/20 23:23	7440-42-8	
Calcium	97500	ug/L	1000	1	11/19/20 06:15	11/19/20 23:23	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:23	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:23	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:48	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:48	7440-38-2	
Barium	105	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:48	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:48	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:48	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	426	mg/L	10.0	1		11/16/20 15:11		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/13/20 11:38		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: DUP 1	Lab ID: 50272915010	Collected: 11/10/20 08:00	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>87.4</b>	mg/L	25.0	100		11/24/20 21:36	16887-00-6	
Fluoride	<b>0.42</b>	mg/L	0.10	1		11/24/20 21:19	16984-48-8	
Sulfate	<b>79.4</b>	mg/L	25.0	100		11/24/20 21:36	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>138</b>	ug/L	100	1	11/19/20 06:15	11/19/20 23:25	7440-42-8	
Calcium	<b>78800</b>	ug/L	1000	1	11/19/20 06:15	11/19/20 23:25	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:25	7439-93-2	
Molybdenum	<b>13.6</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:25	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:53	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:53	7440-38-2	
Barium	<b>85.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:53	7440-39-3	
Cobalt	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:53	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:53	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>448</b>	mg/L	10.0	1		11/16/20 15:11		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 11:42		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Sample: DUP 2	Lab ID: 50272915011	Collected: 11/10/20 08:00	Received: 11/11/20 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>483</b>	mg/L	25.0	100		11/24/20 22:08	16887-00-6	
Fluoride	<b>0.44</b>	mg/L	0.10	1		11/24/20 21:52	16984-48-8	
Sulfate	<b>1340</b>	mg/L	25.0	100		11/24/20 22:08	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>4460</b>	ug/L	100	1	11/19/20 06:15	11/19/20 23:28	7440-42-8	
Calcium	<b>399000</b>	ug/L	5000	5	11/19/20 06:15	11/19/20 23:41	7440-70-2	
Lithium	<b>141</b>	ug/L	20.0	1	11/19/20 06:15	11/19/20 23:28	7439-93-2	
Molybdenum	<b>262</b>	ug/L	10.0	1	11/19/20 06:15	11/19/20 23:28	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:58	7440-36-0	
Arsenic	<b>9.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:58	7440-38-2	
Barium	<b>255</b>	ug/L	2.0	2	11/17/20 11:35	11/19/20 09:01	7440-39-3	
Cobalt	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:58	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 08:58	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>2760</b>	mg/L	40.0	1		11/16/20 15:12		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		11/13/20 11:44		H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

QC Batch:	594884	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011		

METHOD BLANK:	2744504	Matrix:	Water
Associated Lab Samples:	50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/24/20 00:28	
Fluoride	mg/L	ND	0.10	11/24/20 00:28	
Sulfate	mg/L	ND	0.25	11/24/20 00:28	

LABORATORY CONTROL SAMPLE: 2744505						
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	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744506												2744507	
Parameter	Units	50272897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	42.6	12.5	12.5	56.5	56.4	-1	-2	80-120	0	15		
Fluoride	mg/L	1.3	0.5	0.5	1.8	1.8	92	95	80-120	1	15		
Sulfate	mg/L	83.7	25	25	110	110	27	26	80-120	0	15		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

QC Batch:	593671	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011		

METHOD BLANK:	2739073	Matrix:	Water
Associated Lab Samples:	50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	11/19/20 22:18	
Calcium	ug/L	ND	1000	11/19/20 22:18	
Lithium	ug/L	ND	20.0	11/19/20 22:18	
Molybdenum	ug/L	ND	10.0	11/19/20 22:18	

LABORATORY CONTROL SAMPLE: 2739074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	981	98	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Lithium	ug/L	1000	972	97	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2739075 2739076

Parameter	Units	50272897001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	ug/L	0.58 mg/L	1000	1000	1570	1600	100	102	75-125	1	20	
Calcium	ug/L	82.7 mg/L	10000	10000	91700	93300	90	106	75-125	2	20	
Lithium	ug/L	0.16 mg/L	1000	1000	1150	1170	99	101	75-125	2	20	
Molybdenum	ug/L	0.034 mg/L	1000	1000	1050	1070	102	104	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 1  
Pace Project No.: 50272915

QC Batch: 593447 Analysis Method: EPA 6020  
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

METHOD BLANK: 2738118 Matrix: Water  
Associated Lab Samples: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 07:16	
Arsenic	ug/L	ND	1.0	11/18/20 07:16	
Barium	ug/L	ND	1.0	11/18/20 07:16	
Cobalt	ug/L	ND	1.0	11/18/20 07:16	
Selenium	ug/L	ND	1.0	11/18/20 07:16	

LABORATORY CONTROL SAMPLE: 2738119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.4	109	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Barium	ug/L	40	40.4	101	80-120	
Cobalt	ug/L	40	39.1	98	80-120	
Selenium	ug/L	40	38.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738120 2738121

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50272915001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	46.6	43.3	115	107	75-125	7	20
Arsenic	ug/L	ND	40	40	39.2	39.0	98	97	75-125	1	20
Barium	ug/L	80.0	40	40	121	112	102	80	75-125	8	20
Cobalt	ug/L	ND	40	40	40.0	37.0	99	91	75-125	8	20
Selenium	ug/L	ND	40	40	38.7	39.3	96	97	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 1  
Pace Project No.: 50272915

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QC Batch:	593192	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

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METHOD BLANK: 2737339 Matrix: Water  
Associated Lab Samples: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/16/20 15:06	

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LABORATORY CONTROL SAMPLE: 2737340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

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SAMPLE DUPLICATE: 2737341

Parameter	Units	50272915003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	424	0	10	

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SAMPLE DUPLICATE: 2737342

Parameter	Units	50272965003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1860	1890	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

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QC Batch:	592933	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: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

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SAMPLE DUPLICATE: 2735824

Parameter	Units	50272915010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.7	1	2	H3

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SAMPLE DUPLICATE: 2735825

Parameter	Units	50273130001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-3S**      **Lab ID: 50272915001**      Collected: 11/10/20 13:51      Received: 11/11/20 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	<b>-0.392 ± 0.481 (1.14)</b> <b>C:NA T:86%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.293 ± 0.389 (0.830)</b> <b>C:67% T:87%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.293 ± 0.870 (1.97)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-4S**      **Lab ID: 50272915002**      Collected: 11/10/20 12:39      Received: 11/11/20 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	<b>0.0671 ± 0.474 (0.946)</b> <b>C:NA T:88%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.655 ± 0.529 (1.06)</b> <b>C:65% T:80%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.722 ± 1.00 (2.01)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-4I**      **Lab ID: 50272915003**      Collected: 11/10/20 11:51      Received: 11/11/20 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	<b>0.657 ± 0.429 (0.439)</b> <b>C:NA T:88%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.515 ± 0.463 (0.944)</b> <b>C:63% T:86%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.17 ± 0.892 (1.38)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-4D**      **Lab ID: 50272915004**      Collected: 11/10/20 10:56      Received: 11/11/20 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	<b>0.646 ± 0.445 (0.475)</b> <b>C:NA T:90%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.863 ± 0.579 (1.12)</b> <b>C:62% T:77%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.51 ± 1.02 (1.60)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-6I**      **Lab ID: 50272915005**      Collected: 11/10/20 14:15      Received: 11/11/20 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	<b>0.929 ± 0.809 (1.25)</b> <b>C:NA T:84%</b>	pCi/L	12/09/20 14:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.159 ± 0.317 (0.699)</b> <b>C:69% T:86%</b>	pCi/L	12/09/20 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.09 ± 1.13 (1.95)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-6D**      **Lab ID: 50272915006**      Collected: 11/10/20 13:30      Received: 11/11/20 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	<b>0.521 ± 0.545 (0.853)</b> <b>C:NA T:86%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.560 ± 0.402 (0.785)</b> <b>C:74% T:85%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.08 ± 0.947 (1.64)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-9S**      **Lab ID: 50272915007**      Collected: 11/10/20 10:45      Received: 11/11/20 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	<b>-0.178 ± 0.507 (1.07)</b> <b>C:NA T:85%</b>	pCi/L	12/09/20 14:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.618 ± 0.417 (0.799)</b> <b>C:70% T:88%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.618 ± 0.924 (1.87)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-9I**      **Lab ID: 50272915008**      Collected: 11/10/20 12:20      Received: 11/11/20 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	<b>0.318 ± 0.415 (0.685)</b> <b>C:NA T:81%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.109 ± 0.455 (1.03)</b> <b>C:62% T:86%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.427 ± 0.870 (1.72)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: MW-9D**      **Lab ID: 50272915009**      Collected: 11/10/20 11:35      Received: 11/11/20 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	<b>0.395 ± 0.369 (0.523)</b> <b>C:NA T:95%</b>	pCi/L	12/09/20 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.444 ± 0.441 (0.910)</b> <b>C:64% T:86%</b>	pCi/L	12/09/20 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.839 ± 0.810 (1.43)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: DUP 1**      **Lab ID: 50272915010**      Collected: 11/10/20 08:00      Received: 11/11/20 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	<b>0.452 ± 0.525 (0.847)</b> <b>C:NA T:91%</b>	pCi/L	12/09/20 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.592 ± 0.456 (0.906)</b> <b>C:65% T:89%</b>	pCi/L	12/09/20 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.04 ± 0.981 (1.75)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

**Sample: DUP 2**      **Lab ID: 50272915011**      Collected: 11/10/20 08:00      Received: 11/11/20 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	<b>0.000 ± 0.295 (0.600)</b> <b>C:NA T:88%</b>	pCi/L	12/09/20 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.629 ± 0.442 (0.857)</b> <b>C:64% T:89%</b>	pCi/L	12/09/20 12:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.629 ± 0.737 (1.46)</b>	pCi/L	12/10/20 10:21	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

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QC Batch:	424003	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: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

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METHOD BLANK: 2049590 Matrix: Water

Associated Lab Samples: 50272915001, 50272915002, 50272915003, 50272915004, 50272915005, 50272915006, 50272915007, 50272915008, 50272915009, 50272915010, 50272915011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.506 ± 0.448 (0.910) C:66% T:82%	pCi/L	12/09/20 12:15	

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## QUALIFIERS

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272915001	MW-3S	EPA 9056	594884		
50272915002	MW-4S	EPA 9056	594884		
50272915003	MW-4I	EPA 9056	594884		
50272915004	MW-4D	EPA 9056	594884		
50272915005	MW-6I	EPA 9056	594884		
50272915006	MW-6D	EPA 9056	594884		
50272915007	MW-9S	EPA 9056	594884		
50272915008	MW-9I	EPA 9056	594884		
50272915009	MW-9D	EPA 9056	594884		
50272915010	DUP 1	EPA 9056	594884		
50272915011	DUP 2	EPA 9056	594884		
50272915001	MW-3S	EPA 3010	593671	EPA 6010	594300
50272915002	MW-4S	EPA 3010	593671	EPA 6010	594300
50272915003	MW-4I	EPA 3010	593671	EPA 6010	594300
50272915004	MW-4D	EPA 3010	593671	EPA 6010	594300
50272915005	MW-6I	EPA 3010	593671	EPA 6010	594300
50272915006	MW-6D	EPA 3010	593671	EPA 6010	594300
50272915007	MW-9S	EPA 3010	593671	EPA 6010	594300
50272915008	MW-9I	EPA 3010	593671	EPA 6010	594300
50272915009	MW-9D	EPA 3010	593671	EPA 6010	594300
50272915010	DUP 1	EPA 3010	593671	EPA 6010	594300
50272915011	DUP 2	EPA 3010	593671	EPA 6010	594300
50272915001	MW-3S	EPA 200.2	593447	EPA 6020	593712
50272915002	MW-4S	EPA 200.2	593447	EPA 6020	593712
50272915003	MW-4I	EPA 200.2	593447	EPA 6020	593712
50272915004	MW-4D	EPA 200.2	593447	EPA 6020	593712
50272915005	MW-6I	EPA 200.2	593447	EPA 6020	593712
50272915006	MW-6D	EPA 200.2	593447	EPA 6020	593712
50272915007	MW-9S	EPA 200.2	593447	EPA 6020	593712
50272915008	MW-9I	EPA 200.2	593447	EPA 6020	593712
50272915009	MW-9D	EPA 200.2	593447	EPA 6020	593712
50272915010	DUP 1	EPA 200.2	593447	EPA 6020	593712
50272915011	DUP 2	EPA 200.2	593447	EPA 6020	593712
50272915001	MW-3S	EPA 903.1	424000		
50272915002	MW-4S	EPA 903.1	424000		
50272915003	MW-4I	EPA 903.1	424000		
50272915004	MW-4D	EPA 903.1	424000		
50272915005	MW-6I	EPA 903.1	424000		
50272915006	MW-6D	EPA 903.1	424000		
50272915007	MW-9S	EPA 903.1	424000		
50272915008	MW-9I	EPA 903.1	424000		
50272915009	MW-9D	EPA 903.1	424000		
50272915010	DUP 1	EPA 903.1	424000		
50272915011	DUP 2	EPA 903.1	424000		
50272915001	MW-3S	EPA 904.0	424003		
50272915002	MW-4S	EPA 904.0	424003		
50272915003	MW-4I	EPA 904.0	424003		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Prof 1 Report 1

Pace Project No.: 50272915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50272915004	MW-4D	EPA 904.0	424003		
50272915005	MW-6I	EPA 904.0	424003		
50272915006	MW-6D	EPA 904.0	424003		
50272915007	MW-9S	EPA 904.0	424003		
50272915008	MW-9I	EPA 904.0	424003		
50272915009	MW-9D	EPA 904.0	424003		
50272915010	DUP 1	EPA 904.0	424003		
50272915011	DUP 2	EPA 904.0	424003		
50272915001	MW-3S	Total Radium Calculation	426606		
50272915002	MW-4S	Total Radium Calculation	426606		
50272915003	MW-4I	Total Radium Calculation	426606		
50272915004	MW-4D	Total Radium Calculation	426606		
50272915005	MW-6I	Total Radium Calculation	426606		
50272915006	MW-6D	Total Radium Calculation	426606		
50272915007	MW-9S	Total Radium Calculation	426606		
50272915008	MW-9I	Total Radium Calculation	426606		
50272915009	MW-9D	Total Radium Calculation	426606		
50272915010	DUP 1	Total Radium Calculation	426606		
50272915011	DUP 2	Total Radium Calculation	426606		
50272915001	MW-3S	SM 2540C	593192		
50272915002	MW-4S	SM 2540C	593192		
50272915003	MW-4I	SM 2540C	593192		
50272915004	MW-4D	SM 2540C	593192		
50272915005	MW-6I	SM 2540C	593192		
50272915006	MW-6D	SM 2540C	593192		
50272915007	MW-9S	SM 2540C	593192		
50272915008	MW-9I	SM 2540C	593192		
50272915009	MW-9D	SM 2540C	593192		
50272915010	DUP 1	SM 2540C	593192		
50272915011	DUP 2	SM 2540C	593192		
50272915001	MW-3S	SM 4500-H+B	592933		
50272915002	MW-4S	SM 4500-H+B	592933		
50272915003	MW-4I	SM 4500-H+B	592933		
50272915004	MW-4D	SM 4500-H+B	592933		
50272915005	MW-6I	SM 4500-H+B	592933		
50272915006	MW-6D	SM 4500-H+B	592933		
50272915007	MW-9S	SM 4500-H+B	592933		
50272915008	MW-9I	SM 4500-H+B	592933		
50272915009	MW-9D	SM 4500-H+B	592933		
50272915010	DUP 1	SM 4500-H+B	592933		
50272915011	DUP 2	SM 4500-H+B	592933		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: CSB 11/11/20 1515

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 Zip Locks

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

Ice Type:  Wet Blue None

Cooler Temperature: 5.7/5.6 0.0/0.7  
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
<b>Are samples from West Virginia?</b> 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.			
<b>USDA Regulated Soils?</b> (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: <del>HNO3 (&gt;2)</del> 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"/>		
<b>Short Hold Time Analysis (48 hours or less)?</b> Analysis:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
<b>Time 5035A TC placed in Freezer or Short Holds To Lab</b>	Time:		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
<b>Rush TAT Requested (4 days or less):</b>		<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	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					
2																2	1	1	1						WT	✓		
3																												
4																												
5																2	1	1	1						WT	✓		
6																2	1	1	1						WT	✓		
7																2	1	1	1						WT	✓		
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	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					
2																												
3																												
4																												
5																												
6																2	1	1	1							WT	✓	
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

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																																	
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 01, 2021

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

RE: Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50273130

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 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: Eagle Valley Profile1 Report2  
Pace Project No.: 50273130

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273130001	MW-15S	Water	11/11/20 14:00	11/12/20 15:25
50273130002	MW-15I	Water	11/11/20 12:10	11/12/20 15:25
50273130003	MW-15D	Water	11/11/20 10:50	11/12/20 15:25
50273130004	MW-16S	Water	11/11/20 15:30	11/12/20 15:25
50273130005	MW-16I	Water	11/11/20 13:41	11/12/20 15:25
50273130006	MW-16D	Water	11/11/20 11:29	11/12/20 15:25
50273130007	DUP-3	Water	11/11/20 08:00	11/12/20 15:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273130001	MW-15S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50273130002	MW-15I	SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50273130003	MW-15D	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273130004	MW-16S	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
50273130005	MW-16I	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	HBS	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
50273130005	MW-16I	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: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273130006	MW-16D	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	4	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
50273130007	DUP-3	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273130001</b>	<b>MW-15S</b>					
EPA 9056	Chloride	58.3	mg/L	2.5	11/28/20 04:49	
EPA 9056	Fluoride	0.33	mg/L	0.10	11/28/20 04:32	
EPA 9056	Sulfate	86.5	mg/L	2.5	11/28/20 04:49	
EPA 6010	Boron	2330	ug/L	100	11/20/20 04:08	
EPA 6010	Calcium	116000	ug/L	1000	11/20/20 04:08	
EPA 6010	Lithium	52.5	ug/L	20.0	11/20/20 04:08	
EPA 6010	Molybdenum	73.5	ug/L	10.0	11/20/20 04:08	
EPA 6020	Barium	82.0	ug/L	1.0	11/18/20 09:11	
EPA 6020	Selenium	5.0	ug/L	1.0	11/18/20 09:11	
EPA 903.1	Radium-226	0.209 ± 0.411 (0.751) C:NA T:88%	pCi/L		12/10/20 12:38	
EPA 904.0	Radium-228	0.0877 ± 0.405 (0.921) C:64% T:84%	pCi/L		12/10/20 11:07	
Total Radium Calculation	Total Radium	0.297 ± 0.816 (1.67)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	505	mg/L	10.0	11/17/20 17:35	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/13/20 11:45	H3
<b>50273130002</b>	<b>MW-15I</b>					
EPA 9056	Chloride	115	mg/L	2.5	11/28/20 05:54	
EPA 9056	Fluoride	0.37	mg/L	0.10	11/28/20 05:37	
EPA 9056	Sulfate	214	mg/L	2.5	11/28/20 05:54	
EPA 6010	Boron	7170	ug/L	100	11/20/20 04:11	
EPA 6010	Calcium	87500	ug/L	1000	11/20/20 04:11	
EPA 6010	Lithium	83.2	ug/L	20.0	11/20/20 04:11	
EPA 6010	Molybdenum	326	ug/L	10.0	11/20/20 04:11	
EPA 6020	Barium	52.5	ug/L	1.0	11/18/20 09:16	
EPA 6020	Cobalt	1.4	ug/L	1.0	11/18/20 09:16	
EPA 903.1	Radium-226	0.532 ± 0.456 (0.618) C:NA T:87%	pCi/L		12/10/20 12:38	
EPA 904.0	Radium-228	0.625 ± 0.523 (1.05) C:66% T:73%	pCi/L		12/10/20 11:07	
Total Radium Calculation	Total Radium	1.16 ± 0.979 (1.67)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	657	mg/L	10.0	11/17/20 17:35	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 11:47	H3
<b>50273130003</b>	<b>MW-15D</b>					
EPA 9056	Chloride	158	mg/L	25.0	11/28/20 06:42	
EPA 9056	Fluoride	0.20	mg/L	0.10	11/28/20 06:10	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273130003</b>	<b>MW-15D</b>					
EPA 9056	Sulfate	241	mg/L	2.5	11/28/20 06:26	
EPA 6010	Boron	4430	ug/L	100	11/20/20 04:46	
EPA 6010	Calcium	122000	ug/L	1000	11/20/20 04:46	
EPA 6010	Lithium	99.0	ug/L	20.0	11/20/20 04:46	
EPA 6010	Molybdenum	177	ug/L	10.0	11/20/20 04:46	
EPA 6020	Arsenic	3.8	ug/L	1.0	11/18/20 09:21	
EPA 6020	Barium	98.4	ug/L	1.0	11/18/20 09:21	
EPA 6020	Cobalt	3.1	ug/L	1.0	11/18/20 09:21	
EPA 903.1	Radium-226	1.81 ± 0.865 (0.980)	pCi/L		12/10/20 12:21	
EPA 904.0	Radium-228	C:NA T:81% 1.34 ± 0.629 (1.09)	pCi/L		12/10/20 11:06	
		C:60% T:80%				
Total Radium Calculation	Total Radium	3.15 ± 1.49 (2.07)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	752	mg/L	10.0	11/17/20 17:42	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 11:48	H3
<b>50273130004</b>	<b>MW-16S</b>					
EPA 9056	Chloride	125	mg/L	2.5	11/28/20 07:15	
EPA 9056	Fluoride	0.22	mg/L	0.10	11/28/20 06:59	
EPA 9056	Sulfate	147	mg/L	2.5	11/28/20 07:15	
EPA 6010	Boron	563	ug/L	100	11/20/20 04:53	
EPA 6010	Calcium	116000	ug/L	1000	11/20/20 04:53	
EPA 6010	Lithium	68.0	ug/L	20.0	11/20/20 04:53	
EPA 6010	Molybdenum	46.7	ug/L	10.0	11/20/20 04:53	
EPA 6020	Arsenic	1.0	ug/L	1.0	11/18/20 09:25	
EPA 6020	Barium	101	ug/L	1.0	11/18/20 09:25	
EPA 6020	Cobalt	1.2	ug/L	1.0	11/18/20 09:25	
EPA 6020	Selenium	1.6	ug/L	1.0	11/18/20 09:25	
EPA 903.1	Radium-226	0.495 ± 0.463 (0.657)	pCi/L		12/10/20 12:38	
EPA 904.0	Radium-228	C:NA T:91% 0.473 ± 0.413 (0.831)	pCi/L		12/10/20 11:07	
		C:66% T:86%				
Total Radium Calculation	Total Radium	0.968 ± 0.876 (1.49)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	642	mg/L	10.0	11/17/20 17:43	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/13/20 11:49	H3
<b>50273130005</b>	<b>MW-16I</b>					
EPA 9056	Chloride	91.0	mg/L	2.5	11/28/20 07:48	
EPA 9056	Fluoride	0.34	mg/L	0.10	11/28/20 07:31	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273130005</b>	<b>MW-16I</b>					
EPA 9056	Sulfate	80.8	mg/L	2.5	11/28/20 07:48	
EPA 6010	Boron	450	ug/L	100	11/20/20 04:55	
EPA 6010	Calcium	72000	ug/L	1000	11/20/20 04:55	
EPA 6010	Lithium	76.6	ug/L	20.0	11/20/20 04:55	
EPA 6010	Molybdenum	102	ug/L	10.0	11/20/20 04:55	
EPA 6020	Arsenic	1.6	ug/L	1.0	11/18/20 09:30	
EPA 6020	Barium	70.4	ug/L	1.0	11/18/20 09:30	
EPA 6020	Cobalt	1.4	ug/L	1.0	11/18/20 09:30	
EPA 903.1	Radium-226	0.345 ± 0.489 (0.829)	pCi/L		12/10/20 12:38	
EPA 904.0	Radium-228	C:NA T:83% 0.500 ± 0.457 (0.931)	pCi/L		12/10/20 11:07	
		C:64% T:82%				
Total Radium Calculation	Total Radium	0.845 ± 0.946 (1.76)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	448	mg/L	10.0	11/17/20 17:44	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 11:52	H3
<b>50273130006</b>	<b>MW-16D</b>					
EPA 9056	Chloride	85.1	mg/L	2.5	11/28/20 08:53	
EPA 9056	Fluoride	0.37	mg/L	0.10	11/28/20 08:36	
EPA 9056	Sulfate	74.9	mg/L	2.5	11/28/20 08:53	
EPA 6010	Boron	337	ug/L	100	11/20/20 05:04	
EPA 6010	Calcium	81200	ug/L	1000	11/20/20 05:04	
EPA 6010	Lithium	75.0	ug/L	20.0	11/20/20 05:04	
EPA 6010	Molybdenum	92.5	ug/L	10.0	11/20/20 05:04	
EPA 6020	Arsenic	8.0	ug/L	1.0	11/18/20 09:44	
EPA 6020	Barium	81.7	ug/L	1.0	11/19/20 08:38	
EPA 6020	Cobalt	1.2	ug/L	1.0	11/18/20 09:44	
EPA 903.1	Radium-226	0.782 ± 0.549 (0.701)	pCi/L		12/10/20 12:38	
EPA 904.0	Radium-228	C:NA T:93% 0.806 ± 0.503 (0.950)	pCi/L		12/10/20 11:07	
		C:62% T:85%				
Total Radium Calculation	Total Radium	1.59 ± 1.05 (1.65)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	442	mg/L	10.0	11/17/20 17:44	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:53	H3
<b>50273130007</b>	<b>DUP-3</b>					
EPA 9056	Chloride	83.9	mg/L	2.5	12/01/20 06:50	
EPA 9056	Fluoride	0.34	mg/L	0.10	12/01/20 06:34	
EPA 9056	Sulfate	77.5	mg/L	2.5	12/01/20 06:50	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273130007</b>	<b>DUP-3</b>					
EPA 6010	Boron	435	ug/L	100	11/20/20 05:06	
EPA 6010	Calcium	68300	ug/L	1000	11/20/20 05:06	
EPA 6010	Lithium	75.3	ug/L	20.0	11/20/20 05:06	
EPA 6010	Molybdenum	103	ug/L	10.0	11/20/20 05:06	
EPA 6020	Arsenic	1.1	ug/L	1.0	11/18/20 09:49	
EPA 6020	Barium	65.1	ug/L	1.0	11/19/20 08:42	
EPA 6020	Cobalt	1.1	ug/L	1.0	11/18/20 09:49	
EPA 903.1	Radium-226	0.133 ± 0.304 (0.489)	pCi/L		12/10/20 12:21	
EPA 904.0	Radium-228	C:NA T:93% 0.860 ± 0.490 (0.891)	pCi/L		12/10/20 11:06	
Total Radium Calculation	Total Radium	C:64% T:81% 0.993 ± 0.794 (1.38)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	443	mg/L	10.0	11/17/20 17:44	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 11:58	H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-15S	Lab ID: 50273130001	Collected: 11/11/20 14:00	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	58.3	mg/L	2.5	10		11/28/20 04:49	16887-00-6	
Fluoride	0.33	mg/L	0.10	1		11/28/20 04:32	16984-48-8	
Sulfate	86.5	mg/L	2.5	10		11/28/20 04:49	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	2330	ug/L	100	1	11/18/20 05:55	11/20/20 04:08	7440-42-8	
Calcium	116000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:08	7440-70-2	
Lithium	52.5	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:08	7439-93-2	
Molybdenum	73.5	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:08	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:11	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:11	7440-38-2	
Barium	82.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:11	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:11	7440-48-4	
Selenium	5.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:11	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	505	mg/L	10.0	1		11/17/20 17:35		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/13/20 11:45		H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-15I	Lab ID: 50273130002	Collected: 11/11/20 12:10	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	115	mg/L	2.5	10		11/28/20 05:54	16887-00-6	
Fluoride	0.37	mg/L	0.10	1		11/28/20 05:37	16984-48-8	
Sulfate	214	mg/L	2.5	10		11/28/20 05:54	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	7170	ug/L	100	1	11/18/20 05:55	11/20/20 04:11	7440-42-8	
Calcium	87500	ug/L	1000	1	11/18/20 05:55	11/20/20 04:11	7440-70-2	
Lithium	83.2	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:11	7439-93-2	
Molybdenum	326	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:11	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:16	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:16	7440-38-2	
Barium	52.5	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:16	7440-39-3	
Cobalt	1.4	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:16	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	657	mg/L	10.0	1		11/17/20 17:35		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/13/20 11:47		H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-15D	Lab ID: 50273130003	Collected: 11/11/20 10:50	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	158	mg/L	25.0	100		11/28/20 06:42	16887-00-6	
Fluoride	0.20	mg/L	0.10	1		11/28/20 06:10	16984-48-8	
Sulfate	241	mg/L	2.5	10		11/28/20 06:26	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	4430	ug/L	100	1	11/18/20 05:55	11/20/20 04:46	7440-42-8	
Calcium	122000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:46	7440-70-2	
Lithium	99.0	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:46	7439-93-2	
Molybdenum	177	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:46	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:21	7440-36-0	
Arsenic	3.8	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:21	7440-38-2	
Barium	98.4	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:21	7440-39-3	
Cobalt	3.1	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:21	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:21	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	752	mg/L	10.0	1		11/17/20 17:42		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/13/20 11:48		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-16S	Lab ID: 50273130004	Collected: 11/11/20 15:30	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	125	mg/L	2.5	10		11/28/20 07:15	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		11/28/20 06:59	16984-48-8	
Sulfate	147	mg/L	2.5	10		11/28/20 07:15	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	563	ug/L	100	1	11/18/20 05:55	11/20/20 04:53	7440-42-8	
Calcium	116000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:53	7440-70-2	
Lithium	68.0	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:53	7439-93-2	
Molybdenum	46.7	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:53	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:25	7440-36-0	
Arsenic	1.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:25	7440-38-2	
Barium	101	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:25	7440-39-3	
Cobalt	1.2	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:25	7440-48-4	
Selenium	1.6	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:25	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	642	mg/L	10.0	1		11/17/20 17:43		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/13/20 11:49		H3

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-16I	Lab ID: 50273130005	Collected: 11/11/20 13:41	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	91.0	mg/L	2.5	10		11/28/20 07:48	16887-00-6	
Fluoride	0.34	mg/L	0.10	1		11/28/20 07:31	16984-48-8	
Sulfate	80.8	mg/L	2.5	10		11/28/20 07:48	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	450	ug/L	100	1	11/18/20 05:55	11/20/20 04:55	7440-42-8	
Calcium	72000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:55	7440-70-2	
Lithium	76.6	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:55	7439-93-2	
Molybdenum	102	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:55	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:30	7440-36-0	
Arsenic	1.6	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:30	7440-38-2	
Barium	70.4	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:30	7440-39-3	
Cobalt	1.4	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:30	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:30	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	448	mg/L	10.0	1		11/17/20 17:44		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		11/13/20 11:52		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: MW-16D	Lab ID: 50273130006	Collected: 11/11/20 11:29	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>85.1</b>	mg/L	2.5	10		11/28/20 08:53	16887-00-6	
Fluoride	<b>0.37</b>	mg/L	0.10	1		11/28/20 08:36	16984-48-8	
Sulfate	<b>74.9</b>	mg/L	2.5	10		11/28/20 08:53	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>337</b>	ug/L	100	1	11/18/20 05:55	11/20/20 05:04	7440-42-8	
Calcium	<b>81200</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 05:04	7440-70-2	
Lithium	<b>75.0</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 05:04	7439-93-2	
Molybdenum	<b>92.5</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 05:04	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:44	7440-36-0	
Arsenic	<b>8.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:44	7440-38-2	
Barium	<b>81.7</b>	ug/L	1.0	1	11/17/20 11:35	11/19/20 08:38	7440-39-3	
Cobalt	<b>1.2</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:44	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:44	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>442</b>	mg/L	10.0	1		11/17/20 17:44		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 11:53		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Sample: DUP-3		Lab ID: 50273130007	Collected: 11/11/20 08:00	Received: 11/12/20 15:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	<b>83.9</b>	mg/L	2.5	10		12/01/20 06:50	16887-00-6	
Fluoride	<b>0.34</b>	mg/L	0.10	1		12/01/20 06:34	16984-48-8	
Sulfate	<b>77.5</b>	mg/L	2.5	10		12/01/20 06:50	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	<b>435</b>	ug/L	100	1	11/18/20 05:55	11/20/20 05:06	7440-42-8	
Calcium	<b>68300</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 05:06	7440-70-2	
Lithium	<b>75.3</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 05:06	7439-93-2	
Molybdenum	<b>103</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 05:06	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:49	7440-36-0	
Arsenic	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:49	7440-38-2	
Barium	<b>65.1</b>	ug/L	1.0	1	11/17/20 11:35	11/19/20 08:42	7440-39-3	
Cobalt	<b>1.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:49	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 09:49	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	<b>443</b>	mg/L	10.0	1		11/17/20 17:44		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 11:58		H3

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch: 595458 Analysis Method: EPA 9056  
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006

METHOD BLANK: 2746938 Matrix: Water  
 Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/27/20 20:40	
Fluoride	mg/L	ND	0.10	11/27/20 20:40	
Sulfate	mg/L	ND	0.25	11/27/20 20:40	

LABORATORY CONTROL SAMPLE: 2746939

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	98	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746940 2746941

Parameter	Units	50273131003		50273131005		50273131005		50273131005		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	103	12.5	12.5	116	116	102	103	103	80-120	0	15	
Fluoride	mg/L	0.37	0.5	0.5	0.87	0.87	101	100	100	80-120	1	15	
Sulfate	mg/L	93.6	25	25	119	119	100	102	102	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746942 2746943

Parameter	Units	50273131005		50273131005		50273131005		50273131005		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	102	12.5	12.5	115	115	108	106	106	80-120	0	15	
Fluoride	mg/L	0.29	0.5	0.5	0.79	0.79	100	100	100	80-120	0	15	
Sulfate	mg/L	70.4	25	25	96.0	96.0	102	103	103	80-120	0	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch: 595645

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273130007

METHOD BLANK: 2747454

Matrix: Water

Associated Lab Samples: 50273130007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/01/20 03:31	
Fluoride	mg/L	ND	0.10	12/01/20 03:31	
Sulfate	mg/L	ND	0.25	12/01/20 03:31	

LABORATORY CONTROL SAMPLE: 2747455

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	96	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747456 2747457

Parameter	Units	50273131008		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	60.0	125	125	178	177	94	94	94	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.58	0.58	101	101	101	80-120	0	15		
Sulfate	mg/L	135	250	250	372	373	95	95	95	80-120	0	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch:	593019	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

METHOD BLANK: 2736497 Matrix: Water  
Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	11/20/20 03:55	
Calcium	ug/L	ND	1000	11/20/20 03:55	
Lithium	ug/L	ND	20.0	11/20/20 03:55	
Molybdenum	ug/L	ND	10.0	11/20/20 03:55	

LABORATORY CONTROL SAMPLE: 2736498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	10800	108	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736499 2736500

Parameter	Units	50273131003		50273131005		50273131005		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron	ug/L	1110	1000	1000	2140	2130	103	102	75-125	0	20		
Calcium	ug/L	69900	10000	10000	82500	82500	126	126	75-125	0	20	P6	
Lithium	ug/L	83.2	1000	1000	1120	1100	103	102	75-125	1	20		
Molybdenum	ug/L	113	1000	1000	1170	1150	106	104	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736501 2736502

Parameter	Units	50273131005		50273131005		50273131005		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron	ug/L	229	1000	1000	1250	1240	102	101	75-125	1	20		
Calcium	ug/L	69300	10000	10000	83100	80900	138	116	75-125	3	20	P6	
Lithium	ug/L	61.3	1000	1000	1100	1100	104	104	75-125	0	20		
Molybdenum	ug/L	63.8	1000	1000	1130	1120	106	106	75-125	0	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch:	593447	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

METHOD BLANK: 2738118 Matrix: Water  
Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 07:16	
Arsenic	ug/L	ND	1.0	11/18/20 07:16	
Barium	ug/L	ND	1.0	11/18/20 07:16	
Cobalt	ug/L	ND	1.0	11/18/20 07:16	
Selenium	ug/L	ND	1.0	11/18/20 07:16	

LABORATORY CONTROL SAMPLE: 2738119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.4	109	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Barium	ug/L	40	40.4	101	80-120	
Cobalt	ug/L	40	39.1	98	80-120	
Selenium	ug/L	40	38.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738120 2738121

Parameter	Units	50272915001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Antimony	ug/L	ND	40	40	46.6	43.3	115	107	75-125	7	20		
Arsenic	ug/L	ND	40	40	39.2	39.0	98	97	75-125	1	20		
Barium	ug/L	80.0	40	40	121	112	102	80	75-125	8	20		
Cobalt	ug/L	ND	40	40	40.0	37.0	99	91	75-125	8	20		
Selenium	ug/L	ND	40	40	38.7	39.3	96	97	75-125	1	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch: 593469

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273130001, 50273130002

METHOD BLANK: 2738209

Matrix: Water

Associated Lab Samples: 50273130001, 50273130002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/17/20 17:29	

LABORATORY CONTROL SAMPLE: 2738210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2738211

Parameter	Units	50273018010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	267	0	10	

SAMPLE DUPLICATE: 2738212

Parameter	Units	50273046006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	860	840	2	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch:	593470	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

METHOD BLANK: 2738213 Matrix: Water  
Associated Lab Samples: 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/17/20 17:40	

LABORATORY CONTROL SAMPLE: 2738214

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

SAMPLE DUPLICATE: 2738215

Parameter	Units	50273131003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	499	498	0	10	

SAMPLE DUPLICATE: 2738216

Parameter	Units	50273131005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	442	448	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch: 592933

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: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

SAMPLE DUPLICATE: 2735824

Parameter	Units	50272915010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.7	1	2	H3

SAMPLE DUPLICATE: 2735825

Parameter	Units	50273130001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-15S**      **Lab ID: 50273130001**      Collected: 11/11/20 14:00      Received: 11/12/20 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	<b>0.209 ± 0.411 (0.751)</b> <b>C:NA T:88%</b>	pCi/L	12/10/20 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.0877 ± 0.405 (0.921)</b> <b>C:64% T:84%</b>	pCi/L	12/10/20 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.297 ± 0.816 (1.67)</b>	pCi/L	12/10/20 15:57	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-151**      **Lab ID: 50273130002**      Collected: 11/11/20 12:10      Received: 11/12/20 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	<b>0.532 ± 0.456 (0.618)</b> <b>C:NA T:87%</b>	pCi/L	12/10/20 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.625 ± 0.523 (1.05)</b> <b>C:66% T:73%</b>	pCi/L	12/10/20 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.16 ± 0.979 (1.67)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-15D**      **Lab ID: 50273130003**      Collected: 11/11/20 10:50      Received: 11/12/20 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	<b>1.81 ± 0.865 (0.980)</b> <b>C:NA T:81%</b>	pCi/L	12/10/20 12:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.34 ± 0.629 (1.09)</b> <b>C:60% T:80%</b>	pCi/L	12/10/20 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>3.15 ± 1.49 (2.07)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-16S**      **Lab ID: 50273130004**      Collected: 11/11/20 15:30      Received: 11/12/20 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	<b>0.495 ± 0.463 (0.657)</b> <b>C:NA T:91%</b>	pCi/L	12/10/20 12:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.473 ± 0.413 (0.831)</b> <b>C:66% T:86%</b>	pCi/L	12/10/20 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.968 ± 0.876 (1.49)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-161**      **Lab ID: 50273130005**      Collected: 11/11/20 13:41      Received: 11/12/20 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	<b>0.345 ± 0.489 (0.829)</b> <b>C:NA T:83%</b>	pCi/L	12/10/20 12:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.500 ± 0.457 (0.931)</b> <b>C:64% T:82%</b>	pCi/L	12/10/20 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.845 ± 0.946 (1.76)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: MW-16D**      **Lab ID: 50273130006**      Collected: 11/11/20 11:29      Received: 11/12/20 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	<b>0.782 ± 0.549 (0.701)</b> <b>C:NA T:93%</b>	pCi/L	12/10/20 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.806 ± 0.503 (0.950)</b> <b>C:62% T:85%</b>	pCi/L	12/10/20 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.59 ± 1.05 (1.65)</b>	pCi/L	12/10/20 15:57	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

**Sample: DUP-3**      **Lab ID: 50273130007**      Collected: 11/11/20 08:00      Received: 11/12/20 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	<b>0.133 ± 0.304 (0.489)</b> <b>C:NA T:93%</b>	pCi/L	12/10/20 12:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.860 ± 0.490 (0.891)</b> <b>C:64% T:81%</b>	pCi/L	12/10/20 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.993 ± 0.794 (1.38)</b>	pCi/L	12/10/20 15:57	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

QC Batch: 424204

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: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

METHOD BLANK: 2050434

Matrix: Water

Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0187 ± 0.379 (0.881) C:69% T:74%	pCi/L	12/10/20 11:05	

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.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

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QC Batch:	424203	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: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

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METHOD BLANK: 2050433 Matrix: Water

Associated Lab Samples: 50273130001, 50273130002, 50273130003, 50273130004, 50273130005, 50273130006, 50273130007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0555 ± 0.361 (0.783) C:NA T:87%	pCi/L	12/10/20 11:54	

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.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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: Eagle Valley Profile1 Report2  
Pace Project No.: 50273130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273130001	MW-15S	EPA 9056	595458		
50273130002	MW-15I	EPA 9056	595458		
50273130003	MW-15D	EPA 9056	595458		
50273130004	MW-16S	EPA 9056	595458		
50273130005	MW-16I	EPA 9056	595458		
50273130006	MW-16D	EPA 9056	595458		
50273130007	DUP-3	EPA 9056	595645		
50273130001	MW-15S	EPA 3010	593019	EPA 6010	594324
50273130002	MW-15I	EPA 3010	593019	EPA 6010	594324
50273130003	MW-15D	EPA 3010	593019	EPA 6010	594324
50273130004	MW-16S	EPA 3010	593019	EPA 6010	594324
50273130005	MW-16I	EPA 3010	593019	EPA 6010	594324
50273130006	MW-16D	EPA 3010	593019	EPA 6010	594324
50273130007	DUP-3	EPA 3010	593019	EPA 6010	594324
50273130001	MW-15S	EPA 200.2	593447	EPA 6020	593712
50273130002	MW-15I	EPA 200.2	593447	EPA 6020	593712
50273130003	MW-15D	EPA 200.2	593447	EPA 6020	593712
50273130004	MW-16S	EPA 200.2	593447	EPA 6020	593712
50273130005	MW-16I	EPA 200.2	593447	EPA 6020	593712
50273130006	MW-16D	EPA 200.2	593447	EPA 6020	593712
50273130007	DUP-3	EPA 200.2	593447	EPA 6020	593712
50273130001	MW-15S	EPA 903.1	424203		
50273130002	MW-15I	EPA 903.1	424203		
50273130003	MW-15D	EPA 903.1	424203		
50273130004	MW-16S	EPA 903.1	424203		
50273130005	MW-16I	EPA 903.1	424203		
50273130006	MW-16D	EPA 903.1	424203		
50273130007	DUP-3	EPA 903.1	424203		
50273130001	MW-15S	EPA 904.0	424204		
50273130002	MW-15I	EPA 904.0	424204		
50273130003	MW-15D	EPA 904.0	424204		
50273130004	MW-16S	EPA 904.0	424204		
50273130005	MW-16I	EPA 904.0	424204		
50273130006	MW-16D	EPA 904.0	424204		
50273130007	DUP-3	EPA 904.0	424204		
50273130001	MW-15S	Total Radium Calculation	426708		
50273130002	MW-15I	Total Radium Calculation	426708		
50273130003	MW-15D	Total Radium Calculation	426708		
50273130004	MW-16S	Total Radium Calculation	426708		
50273130005	MW-16I	Total Radium Calculation	426708		
50273130006	MW-16D	Total Radium Calculation	426708		
50273130007	DUP-3	Total Radium Calculation	426708		
50273130001	MW-15S	SM 2540C	593469		
50273130002	MW-15I	SM 2540C	593469		
50273130003	MW-15D	SM 2540C	593470		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50273130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273130004	MW-16S	SM 2540C	593470		
50273130005	MW-16I	SM 2540C	593470		
50273130006	MW-16D	SM 2540C	593470		
50273130007	DUP-3	SM 2540C	593470		
50273130001	MW-15S	SM 4500-H+B	592933		
50273130002	MW-15I	SM 4500-H+B	592933		
50273130003	MW-15D	SM 4500-H+B	592933		
50273130004	MW-16S	SM 4500-H+B	592933		
50273130005	MW-16I	SM 4500-H+B	592933		
50273130006	MW-16D	SM 4500-H+B	592933		
50273130007	DUP-3	SM 4500-H+B	592933		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: WS 11-12-20 1720

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: 2.3/2.2, 1.0/0.9, 2.0/1.9    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
<b>Are samples from West Virginia?</b> 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.			
<b>USDA Regulated Soils?</b> (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 (&lt;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"/>		
<b>Short Hold Time Analysis (48 hours or less)?</b> Analysis:		<input checked="" type="checkbox"/>		<u>Present</u>	<u>Absent</u>	<u>N/A</u>
<b>Time 5035A TC placed in Freezer or Short Holds To Lab</b>	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<u>✓</u>
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<u>✓</u>
<b>Rush TAT Requested (4 days or less):</b>		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<u>✓</u>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm):			<u>✓</u>
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:

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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															2	1	1	1																
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
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 01, 2021

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

RE: Project: Eagle Valley Profile 1Report 1  
Pace Project No.: 50273131

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 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: Eagle Valley Profile 1Report 1  
Pace Project No.: 50273131

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273131001	MW-1S	Water	11/11/20 13:09	11/12/20 15:25
50273131002	MW-1I	Water	11/11/20 12:25	11/12/20 15:25
50273131003	MW-1D	Water	11/11/20 14:15	11/12/20 15:25
50273131004	MW-2S	Water	11/11/20 11:00	11/12/20 15:25
50273131005	MW-2I	Water	11/11/20 09:25	11/12/20 15:25
50273131006	MW-2D	Water	11/11/20 10:15	11/12/20 15:25
50273131007	MW-3I	Water	11/11/20 09:14	11/12/20 15:25
50273131008	MW-7S	Water	11/11/20 16:20	11/12/20 15:25
50273131009	MW-10S	Water	11/11/20 15:55	11/12/20 15:25
50273131010	MW-1D MS	Water	11/11/20 14:15	11/12/20 15:25
50273131011	MW-1D MSD	Water	11/11/20 14:15	11/12/20 15:25
50273131012	MW-2I MS	Water	11/11/20 09:25	11/12/20 15:25
50273131013	MW-2I MSD	Water	11/11/20 09:25	11/12/20 15:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273131001	MW-1S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50273131002	MW-1I	SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	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
50273131003	MW-1D	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131004	MW-2S	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
50273131005	MW-2I	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	HBS	3	PASI-I
		EPA 6010	JPK	4	PASI-I
		EPA 6020	DMT	5	PASI-I
50273131005	MW-2I	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: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273131006	MW-2D	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131007	MW-3I	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131008	MW-7S	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131009	MW-10S	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	4	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131010	MW-1D MS	Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273131011	MW-1D MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131012	MW-2I MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273131013	MW-2I 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

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273131001</b>	<b>MW-1S</b>					
EPA 9056	Chloride	60.9	mg/L	2.5	11/27/20 21:29	
EPA 9056	Fluoride	0.24	mg/L	0.10	11/27/20 21:13	
EPA 9056	Sulfate	197	mg/L	2.5	11/27/20 21:29	
EPA 6010	Boron	2050	ug/L	100	11/20/20 04:13	
EPA 6010	Calcium	158000	ug/L	1000	11/20/20 04:13	
EPA 6010	Lithium	114	ug/L	20.0	11/20/20 04:13	
EPA 6010	Molybdenum	55.1	ug/L	10.0	11/20/20 04:13	
EPA 6020	Antimony	2.9	ug/L	1.0	11/18/20 18:35	
EPA 6020	Arsenic	6.7	ug/L	1.0	11/18/20 18:35	
EPA 6020	Barium	97.9	ug/L	1.0	11/18/20 18:35	
EPA 6020	Selenium	6.6	ug/L	1.0	11/18/20 18:35	
EPA 903.1	Radium-226	0.0659 ± 0.301 (0.612) C:NA T:90%	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	0.564 ± 0.534 (1.10) C:59% T:85%	pCi/L		12/10/20 14:12	
Total Radium Calculation	Total Radium	0.630 ± 0.835 (1.71)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	815	mg/L	10.0	11/17/20 17:35	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/13/20 13:26	H3
<b>50273131002</b>	<b>MW-1I</b>					
EPA 9056	Chloride	103	mg/L	2.5	11/27/20 22:02	
EPA 9056	Fluoride	0.31	mg/L	0.10	11/27/20 21:45	
EPA 9056	Sulfate	83.7	mg/L	2.5	11/27/20 22:02	
EPA 6010	Boron	1330	ug/L	100	11/20/20 04:15	
EPA 6010	Calcium	75600	ug/L	1000	11/20/20 04:15	
EPA 6010	Lithium	92.4	ug/L	20.0	11/20/20 04:15	
EPA 6010	Molybdenum	99.9	ug/L	10.0	11/20/20 04:15	
EPA 6020	Barium	55.2	ug/L	1.0	11/18/20 18:40	
EPA 903.1	Radium-226	0.854 ± 0.570 (0.733) C:NA T:98%	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	0.618 ± 0.498 (0.999) C:66% T:87%	pCi/L		12/10/20 14:12	
Total Radium Calculation	Total Radium	1.47 ± 1.07 (1.73)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	479	mg/L	10.0	11/17/20 17:41	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 13:27	H3
<b>50273131003</b>	<b>MW-1D</b>					
EPA 9056	Chloride	103	mg/L	2.5	11/27/20 23:39	
EPA 9056	Fluoride	0.37	mg/L	0.10	11/27/20 22:18	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273131003</b>	<b>MW-1D</b>					
EPA 9056	Sulfate	93.6	mg/L	2.5	11/27/20 23:39	
EPA 6010	Boron	1110	ug/L	100	11/20/20 04:17	
EPA 6010	Calcium	69900	ug/L	1000	11/20/20 04:17	
EPA 6010	Lithium	83.2	ug/L	20.0	11/20/20 04:17	
EPA 6010	Molybdenum	113	ug/L	10.0	11/20/20 04:17	
EPA 6020	Arsenic	4.2	ug/L	1.0	11/18/20 18:45	
EPA 6020	Barium	59.2	ug/L	1.0	11/18/20 18:45	
EPA 903.1	Radium-226	0.770 ± 0.410 (0.354)	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	C:NA T:92% 1.77 ± 0.643 (0.935) C:62% T:86%	pCi/L		12/10/20 14:12	
Total Radium Calculation	Total Radium	2.54 ± 1.05 (1.29)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	499	mg/L	10.0	11/17/20 17:41	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 13:29	H3
<b>50273131004</b>	<b>MW-2S</b>					
EPA 9056	Chloride	95.5	mg/L	2.5	11/28/20 00:44	
EPA 9056	Fluoride	0.15	mg/L	0.10	11/28/20 00:28	
EPA 9056	Sulfate	196	mg/L	2.5	11/28/20 00:44	
EPA 6010	Boron	985	ug/L	100	11/20/20 04:28	
EPA 6010	Calcium	172000	ug/L	1000	11/20/20 04:28	
EPA 6010	Lithium	74.8	ug/L	20.0	11/20/20 04:28	
EPA 6020	Arsenic	8.9	ug/L	1.0	11/18/20 19:17	
EPA 6020	Barium	110	ug/L	1.0	11/18/20 19:17	
EPA 6020	Selenium	9.6	ug/L	1.0	11/18/20 19:17	
EPA 903.1	Radium-226	0.128 ± 0.293 (0.472)	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	C:NA T:91% 3.01 ± 0.877 (1.09) C:66% T:82%	pCi/L		12/10/20 14:11	
Total Radium Calculation	Total Radium	3.14 ± 1.17 (1.56)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	802	mg/L	20.0	11/17/20 17:41	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	11/13/20 13:31	H3
<b>50273131005</b>	<b>MW-2I</b>					
EPA 9056	Chloride	102	mg/L	2.5	11/28/20 02:38	
EPA 9056	Fluoride	0.29	mg/L	0.10	11/28/20 01:17	
EPA 9056	Sulfate	70.4	mg/L	2.5	11/28/20 02:38	
EPA 6010	Boron	229	ug/L	100	11/20/20 04:35	
EPA 6010	Calcium	69300	ug/L	1000	11/20/20 04:35	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273131005</b>	<b>MW-2I</b>					
EPA 6010	Lithium	61.3	ug/L	20.0	11/20/20 04:35	
EPA 6010	Molybdenum	63.8	ug/L	10.0	11/20/20 04:35	
EPA 6020	Barium	69.2	ug/L	1.0	11/18/20 06:52	
EPA 903.1	Radium-226	0.106 ± 0.416 (0.796)	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	C:NA T:86% 0.386 ± 0.514 (1.10)	pCi/L		12/10/20 14:12	
		C:73% T:79%				
Total Radium Calculation	Total Radium	0.492 ± 0.930 (1.90)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	442	mg/L	10.0	11/17/20 17:41	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 13:32	H3
<b>50273131006</b>	<b>MW-2D</b>					
EPA 9056	Chloride	84.4	mg/L	25.0	11/28/20 03:43	
EPA 9056	Fluoride	0.34	mg/L	0.10	11/28/20 03:27	
EPA 9056	Sulfate	73.8	mg/L	25.0	11/28/20 03:43	
EPA 6010	Boron	234	ug/L	100	11/20/20 04:41	
EPA 6010	Calcium	74400	ug/L	1000	11/20/20 04:41	
EPA 6010	Lithium	52.7	ug/L	20.0	11/20/20 04:41	
EPA 6010	Molybdenum	76.0	ug/L	10.0	11/20/20 04:41	
EPA 6020	Arsenic	4.0	ug/L	1.0	11/18/20 19:31	
EPA 6020	Barium	62.5	ug/L	1.0	11/18/20 19:31	
EPA 903.1	Radium-226	0.325 ± 0.299 (0.176)	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	C:NA T:92% 0.636 ± 0.427 (0.817)	pCi/L		12/10/20 14:11	
		C:74% T:86%				
Total Radium Calculation	Total Radium	0.961 ± 0.726 (0.993)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	416	mg/L	10.0	11/17/20 17:42	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/13/20 13:34	H3
<b>50273131007</b>	<b>MW-3I</b>					
EPA 9056	Chloride	96.4	mg/L	2.5	11/28/20 04:16	
EPA 9056	Fluoride	0.29	mg/L	0.10	11/28/20 04:00	
EPA 9056	Sulfate	85.9	mg/L	2.5	11/28/20 04:16	
EPA 6010	Boron	120	ug/L	100	11/20/20 04:44	
EPA 6010	Calcium	66700	ug/L	1000	11/20/20 04:44	
EPA 6010	Molybdenum	69.2	ug/L	10.0	11/20/20 04:44	
EPA 6020	Barium	60.0	ug/L	1.0	11/18/20 19:36	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273131007</b>	<b>MW-3I</b>					
EPA 903.1	Radium-226	0.343 ± 0.450 (0.749) C:NA T:106%	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	0.674 ± 0.534 (1.07) C:73% T:81%	pCi/L		12/10/20 14:11	
Total Radium Calculation	Total Radium	1.02 ± 0.984 (1.82)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	454	mg/L	10.0	11/17/20 17:42	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	11/13/20 13:35	H3
<b>50273131008</b>	<b>MW-7S</b>					
EPA 9056	Chloride	60.0	mg/L	25.0	12/01/20 04:47	
EPA 9056	Sulfate	135	mg/L	25.0	12/01/20 04:47	
EPA 6010	Boron	545	ug/L	100	11/20/20 04:48	
EPA 6010	Calcium	149000	ug/L	1000	11/20/20 04:48	
EPA 6010	Lithium	25.6	ug/L	20.0	11/20/20 04:48	
EPA 6010	Molybdenum	45.6	ug/L	10.0	11/20/20 04:48	
EPA 6020	Antimony	3.1	ug/L	1.0	11/18/20 19:41	
EPA 6020	Arsenic	1.7	ug/L	1.0	11/18/20 19:41	
EPA 6020	Barium	64.0	ug/L	1.0	11/18/20 19:41	
EPA 6020	Cobalt	2.3	ug/L	1.0	11/18/20 19:41	
EPA 6020	Selenium	12.0	ug/L	1.0	11/18/20 19:41	
EPA 903.1	Radium-226	0.214 ± 0.364 (0.643) C:NA T:102%	pCi/L		12/10/20 13:38	
EPA 904.0	Radium-228	3.15 ± 0.891 (1.02) C:61% T:84%	pCi/L		12/10/20 14:12	
Total Radium Calculation	Total Radium	3.36 ± 1.26 (1.66)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	668	mg/L	10.0	11/17/20 17:43	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/13/20 13:36	H3
<b>50273131009</b>	<b>MW-10S</b>					
EPA 9056	Chloride	109	mg/L	25.0	12/01/20 06:19	
EPA 9056	Fluoride	0.23	mg/L	0.10	12/01/20 06:04	
EPA 9056	Sulfate	472	mg/L	25.0	12/01/20 06:19	
EPA 6010	Boron	6840	ug/L	100	11/20/20 04:50	
EPA 6010	Calcium	221000	ug/L	2000	11/20/20 05:12	
EPA 6010	Lithium	96.2	ug/L	20.0	11/20/20 04:50	
EPA 6010	Molybdenum	90.0	ug/L	10.0	11/20/20 04:50	
EPA 6020	Antimony	3.1	ug/L	1.0	11/18/20 19:45	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273131009</b>	<b>MW-10S</b>					
EPA 6020	Barium	95.0	ug/L	1.0	11/18/20 19:45	
EPA 6020	Selenium	1.8	ug/L	1.0	11/18/20 19:45	
EPA 903.1	Radium-226	0.205 ± 0.354 (0.633) C:NA T:85%	pCi/L		12/10/20 13:38	
EPA 904.0	Radium-228	1.04 ± 0.594 (1.09) C:60% T:80%	pCi/L		12/10/20 14:12	
Total Radium Calculation	Total Radium	1.25 ± 0.948 (1.72)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	1220	mg/L	20.0	11/17/20 17:43	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/13/20 13:39	H3
<b>50273131010</b>	<b>MW-1D MS</b>					
EPA 903.1	Radium-226	86.41 %REC 13.71 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	77.07 %REC ± NA (NA) C:NA T:NA	pCi/L		12/10/20 14:12	
<b>50273131011</b>	<b>MW-1D MSD</b>					
EPA 903.1	Radium-226	75.32 %REC 13.71 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 13:38	
EPA 904.0	Radium-228	81.30 %REC 5.34 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 14:12	
<b>50273131012</b>	<b>MW-2I MS</b>					
EPA 903.1	Radium-226	79.01 %REC ± NA (NA) C:NA T:NA	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	95.24 %REC ± NA (NA) C:NA T:NA	pCi/L		12/10/20 14:11	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273131013</b>	<b>MW-2I MSD</b>					
EPA 903.1	Radium-226	100.00 %REC 23.45 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 13:08	
EPA 904.0	Radium-228	92.67 %REC 2.74 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 14:12	

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-1S	Lab ID: 50273131001	Collected: 11/11/20 13:09	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>60.9</b>	mg/L	2.5	10		11/27/20 21:29	16887-00-6	
Fluoride	<b>0.24</b>	mg/L	0.10	1		11/27/20 21:13	16984-48-8	
Sulfate	<b>197</b>	mg/L	2.5	10		11/27/20 21:29	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>2050</b>	ug/L	100	1	11/18/20 05:55	11/20/20 04:13	7440-42-8	
Calcium	<b>158000</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 04:13	7440-70-2	
Lithium	<b>114</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:13	7439-93-2	
Molybdenum	<b>55.1</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:13	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	<b>2.9</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:35	7440-36-0	
Arsenic	<b>6.7</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:35	7440-38-2	
Barium	<b>97.9</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:35	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:35	7440-48-4	
Selenium	<b>6.6</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:35	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>815</b>	mg/L	10.0	1		11/17/20 17:35		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.1</b>	Std. Units	0.10	1		11/13/20 13:26		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-11	Lab ID: 50273131002	Collected: 11/11/20 12:25	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	103	mg/L	2.5	10		11/27/20 22:02	16887-00-6	
Fluoride	0.31	mg/L	0.10	1		11/27/20 21:45	16984-48-8	
Sulfate	83.7	mg/L	2.5	10		11/27/20 22:02	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	1330	ug/L	100	1	11/18/20 05:55	11/20/20 04:15	7440-42-8	
Calcium	75600	ug/L	1000	1	11/18/20 05:55	11/20/20 04:15	7440-70-2	
Lithium	92.4	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:15	7439-93-2	
Molybdenum	99.9	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:15	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:40	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:40	7440-38-2	
Barium	55.2	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:40	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:40	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:40	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	479	mg/L	10.0	1		11/17/20 17:41		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/13/20 13:27		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-1D	Lab ID: 50273131003	Collected: 11/11/20 14:15	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>103</b>	mg/L	2.5	10		11/27/20 23:39	16887-00-6	
Fluoride	<b>0.37</b>	mg/L	0.10	1		11/27/20 22:18	16984-48-8	
Sulfate	<b>93.6</b>	mg/L	2.5	10		11/27/20 23:39	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>1110</b>	ug/L	100	1	11/18/20 05:55	11/20/20 04:17	7440-42-8	
Calcium	<b>69900</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 04:17	7440-70-2	
Lithium	<b>83.2</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:17	7439-93-2	
Molybdenum	<b>113</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:17	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:45	7440-36-0	
Arsenic	<b>4.2</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:45	7440-38-2	
Barium	<b>59.2</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:45	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:45	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 18:45	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>499</b>	mg/L	10.0	1		11/17/20 17:41		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 13:29		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-2S	Lab ID: 50273131004	Collected: 11/11/20 11:00	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	95.5	mg/L	2.5	10		11/28/20 00:44	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		11/28/20 00:28	16984-48-8	
Sulfate	196	mg/L	2.5	10		11/28/20 00:44	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	985	ug/L	100	1	11/18/20 05:55	11/20/20 04:28	7440-42-8	
Calcium	172000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:28	7440-70-2	
Lithium	74.8	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:28	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:28	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:17	7440-36-0	
Arsenic	8.9	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:17	7440-38-2	
Barium	110	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:17	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:17	7440-48-4	
Selenium	9.6	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:17	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	802	mg/L	20.0	1		11/17/20 17:41		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.9	Std. Units	0.10	1		11/13/20 13:31		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-2I	Lab ID: 50273131005	Collected: 11/11/20 09:25	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>102</b>	mg/L	2.5	10		11/28/20 02:38	16887-00-6	
Fluoride	<b>0.29</b>	mg/L	0.10	1		11/28/20 01:17	16984-48-8	
Sulfate	<b>70.4</b>	mg/L	2.5	10		11/28/20 02:38	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>229</b>	ug/L	100	1	11/18/20 05:55	11/20/20 04:35	7440-42-8	
Calcium	<b>69300</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 04:35	7440-70-2	
Lithium	<b>61.3</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:35	7439-93-2	
Molybdenum	<b>63.8</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:35	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/16/20 13:27	11/18/20 06:52	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/16/20 13:27	11/18/20 06:52	7440-38-2	
Barium	<b>69.2</b>	ug/L	1.0	1	11/16/20 13:27	11/18/20 06:52	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/16/20 13:27	11/18/20 06:52	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/16/20 13:27	11/18/20 06:52	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>442</b>	mg/L	10.0	1		11/17/20 17:41		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		11/13/20 13:32		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-2D		Lab ID: 50273131006		Collected: 11/11/20 10:15	Received: 11/12/20 15:25	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	<b>84.4</b>	mg/L	25.0	100		11/28/20 03:43	16887-00-6	
Fluoride	<b>0.34</b>	mg/L	0.10	1		11/28/20 03:27	16984-48-8	
Sulfate	<b>73.8</b>	mg/L	25.0	100		11/28/20 03:43	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	<b>234</b>	ug/L	100	1	11/18/20 05:55	11/20/20 04:41	7440-42-8	
Calcium	<b>74400</b>	ug/L	1000	1	11/18/20 05:55	11/20/20 04:41	7440-70-2	
Lithium	<b>52.7</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:41	7439-93-2	
Molybdenum	<b>76.0</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:41	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:31	7440-36-0	
Arsenic	<b>4.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:31	7440-38-2	
Barium	<b>62.5</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:31	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:31	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:31	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	<b>416</b>	mg/L	10.0	1		11/17/20 17:42		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		11/13/20 13:34		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-3I	Lab ID: 50273131007	Collected: 11/11/20 09:14	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	96.4	mg/L	2.5	10		11/28/20 04:16	16887-00-6	
Fluoride	0.29	mg/L	0.10	1		11/28/20 04:00	16984-48-8	
Sulfate	85.9	mg/L	2.5	10		11/28/20 04:16	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	120	ug/L	100	1	11/18/20 05:55	11/20/20 04:44	7440-42-8	
Calcium	66700	ug/L	1000	1	11/18/20 05:55	11/20/20 04:44	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:44	7439-93-2	
Molybdenum	69.2	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:44	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:36	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:36	7440-38-2	
Barium	60.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:36	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:36	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:36	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	454	mg/L	10.0	1		11/17/20 17:42		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		11/13/20 13:35		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-7S	Lab ID: 50273131008	Collected: 11/11/20 16:20	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	60.0	mg/L	25.0	100		12/01/20 04:47	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/01/20 04:01	16984-48-8	
Sulfate	135	mg/L	25.0	100		12/01/20 04:47	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	545	ug/L	100	1	11/18/20 05:55	11/20/20 04:48	7440-42-8	
Calcium	149000	ug/L	1000	1	11/18/20 05:55	11/20/20 04:48	7440-70-2	
Lithium	25.6	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:48	7439-93-2	
Molybdenum	45.6	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:48	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	3.1	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:41	7440-36-0	
Arsenic	1.7	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:41	7440-38-2	
Barium	64.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:41	7440-39-3	
Cobalt	2.3	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:41	7440-48-4	
Selenium	12.0	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:41	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	668	mg/L	10.0	1		11/17/20 17:43		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		11/13/20 13:36		H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Sample: MW-10S	Lab ID: 50273131009	Collected: 11/11/20 15:55	Received: 11/12/20 15:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>109</b>	mg/L	25.0	100		12/01/20 06:19	16887-00-6	
Fluoride	<b>0.23</b>	mg/L	0.10	1		12/01/20 06:04	16984-48-8	
Sulfate	<b>472</b>	mg/L	25.0	100		12/01/20 06:19	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>6840</b>	ug/L	100	1	11/18/20 05:55	11/20/20 04:50	7440-42-8	
Calcium	<b>221000</b>	ug/L	2000	2	11/18/20 05:55	11/20/20 05:12	7440-70-2	
Lithium	<b>96.2</b>	ug/L	20.0	1	11/18/20 05:55	11/20/20 04:50	7439-93-2	
Molybdenum	<b>90.0</b>	ug/L	10.0	1	11/18/20 05:55	11/20/20 04:50	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	<b>3.1</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:45	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:45	7440-38-2	
Barium	<b>95.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:45	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:45	7440-48-4	
Selenium	<b>1.8</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 19:45	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>1220</b>	mg/L	20.0	1		11/17/20 17:43		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.2</b>	Std. Units	0.10	1		11/13/20 13:39		H3

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

QC Batch:	595458	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007

METHOD BLANK: 2746938 Matrix: Water  
Associated Lab Samples: 50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/27/20 20:40	
Fluoride	mg/L	ND	0.10	11/27/20 20:40	
Sulfate	mg/L	ND	0.25	11/27/20 20:40	

LABORATORY CONTROL SAMPLE: 2746939

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	98	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746940 2746941

Parameter	Units	50273131003		50273131005		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	103	12.5	12.5	116	116	102	103	103	80-120	0	15	
Fluoride	mg/L	0.37	0.5	0.5	0.87	0.87	101	100	100	80-120	1	15	
Sulfate	mg/L	93.6	25	25	119	119	100	102	102	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746942 2746943

Parameter	Units	50273131005		50273131003		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	102	12.5	12.5	115	115	108	106	106	80-120	0	15	
Fluoride	mg/L	0.29	0.5	0.5	0.79	0.79	100	100	100	80-120	0	15	
Sulfate	mg/L	70.4	25	25	96.0	96.0	102	103	103	80-120	0	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report 1  
Pace Project No.: 50273131

QC Batch: 595645 Analysis Method: EPA 9056  
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50273131008, 50273131009

METHOD BLANK: 2747454 Matrix: Water  
Associated Lab Samples: 50273131008, 50273131009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/01/20 03:31	
Fluoride	mg/L	ND	0.10	12/01/20 03:31	
Sulfate	mg/L	ND	0.25	12/01/20 03:31	

LABORATORY CONTROL SAMPLE: 2747455

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	96	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747456 2747457

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273131008 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	60.0	125	125	178	177	94	94	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.58	0.58	101	101	80-120	0	15		
Sulfate	mg/L	135	250	250	372	373	95	95	80-120	0	15		

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

QC Batch:	593019	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009		

METHOD BLANK:	2736497	Matrix:	Water
Associated Lab Samples:	50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	11/20/20 03:55	
Calcium	ug/L	ND	1000	11/20/20 03:55	
Lithium	ug/L	ND	20.0	11/20/20 03:55	
Molybdenum	ug/L	ND	10.0	11/20/20 03:55	

LABORATORY CONTROL SAMPLE: 2736498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	10800	108	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736499 2736500

Parameter	Units	50273131003		50273131004		50273131005		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Boron	ug/L	1110	1000	1000	2140	2130	103	102	75-125	0	20	
Calcium	ug/L	69900	10000	10000	82500	82500	126	126	75-125	0	20	P6
Lithium	ug/L	83.2	1000	1000	1120	1100	103	102	75-125	1	20	
Molybdenum	ug/L	113	1000	1000	1170	1150	106	104	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2736501 2736502

Parameter	Units	50273131005		50273131006		50273131007		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Boron	ug/L	229	1000	1000	1250	1240	102	101	75-125	1	20	
Calcium	ug/L	69300	10000	10000	83100	80900	138	116	75-125	3	20	P6
Lithium	ug/L	61.3	1000	1000	1100	1100	104	104	75-125	0	20	
Molybdenum	ug/L	63.8	1000	1000	1130	1120	106	106	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

QC Batch: 593222

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273131005

METHOD BLANK: 2737450

Matrix: Water

Associated Lab Samples: 50273131005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 04:51	
Arsenic	ug/L	ND	1.0	11/18/20 04:51	
Barium	ug/L	ND	1.0	11/18/20 04:51	
Cobalt	ug/L	ND	1.0	11/18/20 04:51	
Selenium	ug/L	ND	1.0	11/18/20 04:51	

LABORATORY CONTROL SAMPLE: 2737451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.4	109	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Barium	ug/L	40	40.7	102	80-120	
Cobalt	ug/L	40	39.5	99	80-120	
Selenium	ug/L	40	38.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2737452 2737453

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273131005 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	44.7	44.4	111	111	75-125	1	20
Arsenic	ug/L	ND	40	40	40.4	39.1	101	97	75-125	3	20
Barium	ug/L	69.2	40	40	108	108	96	96	75-125	0	20
Cobalt	ug/L	ND	40	40	38.4	38.1	95	94	75-125	1	20
Selenium	ug/L	ND	40	40	40.3	39.0	100	97	75-125	3	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

QC Batch:	593451	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273131001, 50273131002, 50273131003, 50273131004, 50273131006, 50273131007, 50273131008, 50273131009		

METHOD BLANK:	2738133	Matrix:	Water
Associated Lab Samples:	50273131001, 50273131002, 50273131003, 50273131004, 50273131006, 50273131007, 50273131008, 50273131009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 18:26	
Arsenic	ug/L	ND	1.0	11/18/20 18:26	
Barium	ug/L	ND	1.0	11/18/20 18:26	
Cobalt	ug/L	ND	1.0	11/18/20 18:26	
Selenium	ug/L	ND	1.0	11/18/20 18:26	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.9	100	80-120	
Arsenic	ug/L	40	37.5	94	80-120	
Barium	ug/L	40	39.0	97	80-120	
Cobalt	ug/L	40	40.1	100	80-120	
Selenium	ug/L	40	38.7	97	80-120	

Parameter	Units	2738135		2738136		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273131003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	ND	40	40	40.1	40.1	100	100	75-125	0	20
Arsenic	ug/L	4.2	40	40	41.4	41.7	93	94	75-125	1	20
Barium	ug/L	59.2	40	40	99.2	96.4	100	93	75-125	3	20
Cobalt	ug/L	ND	40	40	39.1	38.6	98	96	75-125	1	20
Selenium	ug/L	ND	40	40	38.5	38.4	96	96	75-125	0	20

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

QC Batch: 593469

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273131001

METHOD BLANK: 2738209

Matrix: Water

Associated Lab Samples: 50273131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/17/20 17:29	

LABORATORY CONTROL SAMPLE: 2738210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2738211

Parameter	Units	50273018010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	267	0	10	

SAMPLE DUPLICATE: 2738212

Parameter	Units	50273046006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	860	840	2	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

QC Batch:	593470	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009

METHOD BLANK: 2738213 Matrix: Water

Associated Lab Samples: 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/17/20 17:40	

LABORATORY CONTROL SAMPLE: 2738214

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

SAMPLE DUPLICATE: 2738215

Parameter	Units	50273131003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	499	498	0	10	

SAMPLE DUPLICATE: 2738216

Parameter	Units	50273131005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	442	448	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

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QC Batch:	592965	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: 50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009

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SAMPLE DUPLICATE: 2736090

Parameter	Units	50273131003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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SAMPLE DUPLICATE: 2736102

Parameter	Units	50273131005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-1S**      **Lab ID: 50273131001**      Collected: 11/11/20 13:09      Received: 11/12/20 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	<b>0.0659 ± 0.301 (0.612)</b> <b>C:NA T:90%</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.564 ± 0.534 (1.10)</b> <b>C:59% T:85%</b>	pCi/L	12/10/20 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.630 ± 0.835 (1.71)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-11</b> <b>Lab ID: 50273131002</b> Collected: 11/11/20 12:25      Received: 11/12/20 15:25      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.854 ± 0.570 (0.733)</b> <b>C:NA T:98%</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.618 ± 0.498 (0.999)</b> <b>C:66% T:87%</b>	pCi/L	12/10/20 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.47 ± 1.07 (1.73)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-1D</b> <b>Lab ID: 50273131003</b> Collected: 11/11/20 14:15      Received: 11/12/20 15:25      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.770 ± 0.410 (0.354)</b> <b>C:NA T:92%</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.77 ± 0.643 (0.935)</b> <b>C:62% T:86%</b>	pCi/L	12/10/20 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.54 ± 1.05 (1.29)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-2S**      **Lab ID: 50273131004**      Collected: 11/11/20 11:00      Received: 11/12/20 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	<b>0.128 ± 0.293 (0.472)</b> <b>C:NA T:91%</b>	pCi/L	12/10/20 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>3.01 ± 0.877 (1.09)</b> <b>C:66% T:82%</b>	pCi/L	12/10/20 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>3.14 ± 1.17 (1.56)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-2I**      **Lab ID: 50273131005**      Collected: 11/11/20 09:25      Received: 11/12/20 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	<b>0.106 ± 0.416 (0.796)</b> <b>C:NA T:86%</b>	pCi/L	12/10/20 12:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.386 ± 0.514 (1.10)</b> <b>C:73% T:79%</b>	pCi/L	12/10/20 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.492 ± 0.930 (1.90)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-2D</b> <b>Lab ID: 50273131006</b> Collected: 11/11/20 10:15      Received: 11/12/20 15:25      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.325 ± 0.299 (0.176)</b> <b>C:NA T:92%</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.636 ± 0.427 (0.817)</b> <b>C:74% T:86%</b>	pCi/L	12/10/20 14:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.961 ± 0.726 (0.993)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-31**      **Lab ID: 50273131007**      Collected: 11/11/20 09:14      Received: 11/12/20 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	<b>0.343 ± 0.450 (0.749)</b> <b>C:NA T:106%</b>	pCi/L	12/10/20 12:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.674 ± 0.534 (1.07)</b> <b>C:73% T:81%</b>	pCi/L	12/10/20 14:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.02 ± 0.984 (1.82)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-7S**      **Lab ID: 50273131008**      Collected: 11/11/20 16:20      Received: 11/12/20 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	<b>0.214 ± 0.364 (0.643)</b> <b>C:NA T:102%</b>	pCi/L	12/10/20 13:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>3.15 ± 0.891 (1.02)</b> <b>C:61% T:84%</b>	pCi/L	12/10/20 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>3.36 ± 1.26 (1.66)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

**Sample: MW-10S**      **Lab ID: 50273131009**      Collected: 11/11/20 15:55      Received: 11/12/20 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	<b>0.205 ± 0.354 (0.633)</b> <b>C:NA T:85%</b>	pCi/L	12/10/20 13:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.04 ± 0.594 (1.09)</b> <b>C:60% T:80%</b>	pCi/L	12/10/20 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.25 ± 0.948 (1.72)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>86.41 %REC 13.71 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>77.07 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 14:12	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	<b>75.32 %REC</b>	<b>13.71 RPD ±</b>	pCi/L	12/10/20 13:38	13982-63-3	
		<b>NA (NA)</b>	<b>C:NA T:NA</b>				
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	<b>81.30 %REC</b>	<b>5.34 RPD ±</b>	pCi/L	12/10/20 14:12	15262-20-1	
		<b>NA (NA)</b>	<b>C:NA T:NA</b>				

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

**Sample: MW-2I MS**      **Lab ID: 50273131012**      Collected: 11/11/20 09:25      Received: 11/12/20 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	<b>79.01 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>95.24 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 14:11	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>100.00 %REC 23.45 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>92.67 %REC 2.74 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 14:12	15262-20-1	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

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QC Batch:	424205	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:	50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009, 50273131010, 50273131011, 50273131012, 50273131013		

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METHOD BLANK:	2050437	Matrix:	Water
Associated Lab Samples:	50273131001, 50273131002, 50273131003, 50273131004, 50273131005, 50273131006, 50273131007, 50273131008, 50273131009, 50273131010, 50273131011, 50273131012, 50273131013		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.195 ± 0.359 (0.640) C:NA T:91%	pCi/L	12/10/20 12:55	

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: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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: Eagle Valley Profile 1 Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273131001	MW-1S	EPA 9056	595458		
50273131002	MW-1I	EPA 9056	595458		
50273131003	MW-1D	EPA 9056	595458		
50273131004	MW-2S	EPA 9056	595458		
50273131005	MW-2I	EPA 9056	595458		
50273131006	MW-2D	EPA 9056	595458		
50273131007	MW-3I	EPA 9056	595458		
50273131008	MW-7S	EPA 9056	595645		
50273131009	MW-10S	EPA 9056	595645		
50273131001	MW-1S	EPA 3010	593019	EPA 6010	594324
50273131002	MW-1I	EPA 3010	593019	EPA 6010	594324
50273131003	MW-1D	EPA 3010	593019	EPA 6010	594324
50273131004	MW-2S	EPA 3010	593019	EPA 6010	594324
50273131005	MW-2I	EPA 3010	593019	EPA 6010	594324
50273131006	MW-2D	EPA 3010	593019	EPA 6010	594324
50273131007	MW-3I	EPA 3010	593019	EPA 6010	594324
50273131008	MW-7S	EPA 3010	593019	EPA 6010	594324
50273131009	MW-10S	EPA 3010	593019	EPA 6010	594324
50273131001	MW-1S	EPA 200.2	593451	EPA 6020	593711
50273131002	MW-1I	EPA 200.2	593451	EPA 6020	593711
50273131003	MW-1D	EPA 200.2	593451	EPA 6020	593711
50273131004	MW-2S	EPA 200.2	593451	EPA 6020	593711
50273131005	MW-2I	EPA 200.2	593222	EPA 6020	593414
50273131006	MW-2D	EPA 200.2	593451	EPA 6020	593711
50273131007	MW-3I	EPA 200.2	593451	EPA 6020	593711
50273131008	MW-7S	EPA 200.2	593451	EPA 6020	593711
50273131009	MW-10S	EPA 200.2	593451	EPA 6020	593711
50273131001	MW-1S	EPA 903.1	424205		
50273131002	MW-1I	EPA 903.1	424205		
50273131003	MW-1D	EPA 903.1	424205		
50273131004	MW-2S	EPA 903.1	424205		
50273131005	MW-2I	EPA 903.1	424205		
50273131006	MW-2D	EPA 903.1	424205		
50273131007	MW-3I	EPA 903.1	424205		
50273131008	MW-7S	EPA 903.1	424205		
50273131009	MW-10S	EPA 903.1	424205		
50273131010	MW-1D MS	EPA 903.1	424205		
50273131011	MW-1D MSD	EPA 903.1	424205		
50273131012	MW-2I MS	EPA 903.1	424205		
50273131013	MW-2I MSD	EPA 903.1	424205		
50273131001	MW-1S	EPA 904.0	424206		
50273131002	MW-1I	EPA 904.0	424206		
50273131003	MW-1D	EPA 904.0	424206		
50273131004	MW-2S	EPA 904.0	424206		
50273131005	MW-2I	EPA 904.0	424206		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile 1Report 1

Pace Project No.: 50273131

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273131006	MW-2D	EPA 904.0	424206		
50273131007	MW-3I	EPA 904.0	424206		
50273131008	MW-7S	EPA 904.0	424206		
50273131009	MW-10S	EPA 904.0	424206		
50273131010	MW-1D MS	EPA 904.0	424206		
50273131011	MW-1D MSD	EPA 904.0	424206		
50273131012	MW-2I MS	EPA 904.0	424206		
50273131013	MW-2I MSD	EPA 904.0	424206		
50273131001	MW-1S	Total Radium Calculation	426782		
50273131002	MW-1I	Total Radium Calculation	426782		
50273131003	MW-1D	Total Radium Calculation	426782		
50273131004	MW-2S	Total Radium Calculation	426782		
50273131005	MW-2I	Total Radium Calculation	426782		
50273131006	MW-2D	Total Radium Calculation	426782		
50273131007	MW-3I	Total Radium Calculation	426782		
50273131008	MW-7S	Total Radium Calculation	426782		
50273131009	MW-10S	Total Radium Calculation	426782		
50273131001	MW-1S	SM 2540C	593469		
50273131002	MW-1I	SM 2540C	593470		
50273131003	MW-1D	SM 2540C	593470		
50273131004	MW-2S	SM 2540C	593470		
50273131005	MW-2I	SM 2540C	593470		
50273131006	MW-2D	SM 2540C	593470		
50273131007	MW-3I	SM 2540C	593470		
50273131008	MW-7S	SM 2540C	593470		
50273131009	MW-10S	SM 2540C	593470		
50273131001	MW-1S	SM 4500-H+B	592965		
50273131002	MW-1I	SM 4500-H+B	592965		
50273131003	MW-1D	SM 4500-H+B	592965		
50273131004	MW-2S	SM 4500-H+B	592965		
50273131005	MW-2I	SM 4500-H+B	592965		
50273131006	MW-2D	SM 4500-H+B	592965		
50273131007	MW-3I	SM 4500-H+B	592965		
50273131008	MW-7S	SM 4500-H+B	592965		
50273131009	MW-10S	SM 4500-H+B	592965		

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### 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	1	1												✓		
3															6	3	3	3												✓		
4															2	1	1	1												✓		
5															6	3	3	3												✓		
6															2	1	1	1												✓		
7																																
8															2	1	1	1												✓		
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 01, 2021

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

RE: Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50273274

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

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### 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

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### 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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273274001	MW-11S	Water	11/12/20 12:35	11/13/20 16:40
50273274002	MW-11I	Water	11/12/20 11:36	11/13/20 16:40
50273274003	MW-11D	Water	11/12/20 10:47	11/13/20 16:40
50273274004	MW-12S	Water	11/12/20 10:55	11/13/20 16:40
50273274005	FIELD BLANK	Water	11/12/20 13:30	11/13/20 16:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273274001	MW-11S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	4	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
50273274002	MW-11I	SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	4	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
50273274003	MW-11D	SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
		EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50273274004	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	JDG	4	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
50273274005	FIELD BLANK	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	JPK	4	PASI-I
		EPA 6020	CAW	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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273274001</b>	<b>MW-11S</b>					
EPA 9056	Chloride	87.5	mg/L	5.0	12/04/20 05:30	
EPA 9056	Fluoride	0.20	mg/L	0.10	12/04/20 05:15	
EPA 9056	Sulfate	246	mg/L	5.0	12/04/20 05:30	
EPA 6010	Boron	4270	ug/L	100	11/30/20 09:03	
EPA 6010	Calcium	148000	ug/L	1000	11/30/20 09:03	
EPA 6010	Lithium	136	ug/L	20.0	11/30/20 09:03	
EPA 6010	Molybdenum	74.0	ug/L	10.0	11/30/20 09:03	
EPA 6020	Antimony	1.4	ug/L	1.0	11/18/20 21:45	
EPA 6020	Arsenic	141	ug/L	1.0	11/18/20 21:45	
EPA 6020	Barium	133	ug/L	1.0	11/18/20 21:45	
EPA 6020	Selenium	2.6	ug/L	1.0	11/18/20 21:45	
EPA 903.1	Radium-226	0.339 ± 0.316 (0.416)	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	C:NA T:97% 0.425 ± 0.406 (0.834)	pCi/L		12/10/20 14:11	
		C:73% T:87%				
Total Radium Calculation	Total Radium	0.764 ± 0.722 (1.25)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	844	mg/L	20.0	11/19/20 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/16/20 15:30	H3
<b>50273274002</b>	<b>MW-11I</b>					
EPA 9056	Chloride	88.8	mg/L	25.0	12/04/20 06:05	
EPA 9056	Fluoride	0.41	mg/L	0.10	12/04/20 05:49	
EPA 9056	Sulfate	120	mg/L	25.0	12/04/20 06:05	
EPA 6010	Boron	4140	ug/L	100	11/30/20 09:05	
EPA 6010	Calcium	73200	ug/L	1000	11/30/20 09:05	
EPA 6010	Lithium	93.2	ug/L	20.0	11/30/20 09:05	
EPA 6010	Molybdenum	164	ug/L	10.0	11/30/20 09:05	
EPA 6020	Arsenic	1.2	ug/L	1.0	11/18/20 21:50	
EPA 6020	Barium	43.0	ug/L	1.0	11/18/20 21:50	
EPA 903.1	Radium-226	0.436 ± 0.475 (0.748)	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	C:NA T:90% 0.696 ± 0.475 (0.916)	pCi/L		12/10/20 14:11	
		C:71% T:83%				
Total Radium Calculation	Total Radium	1.13 ± 0.950 (1.66)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	524	mg/L	10.0	11/19/20 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/16/20 15:31	H3

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273274003</b>	<b>MW-11D</b>					
EPA 9056	Chloride	102	mg/L	25.0	12/04/20 06:37	
EPA 9056	Fluoride	0.25	mg/L	0.10	12/04/20 06:21	
EPA 9056	Sulfate	129	mg/L	25.0	12/04/20 06:37	
EPA 6010	Boron	3330	ug/L	100	11/30/20 09:08	
EPA 6010	Calcium	79000	ug/L	1000	11/30/20 09:08	
EPA 6010	Lithium	85.7	ug/L	20.0	11/30/20 09:08	
EPA 6010	Molybdenum	170	ug/L	10.0	11/30/20 09:08	
EPA 6020	Arsenic	4.6	ug/L	1.0	11/18/20 22:07	
EPA 6020	Barium	51.9	ug/L	1.0	11/18/20 22:07	
EPA 903.1	Radium-226	0.342 ± 0.446 (0.736) C:NA T:87%	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	0.654 ± 0.468 (0.910) C:71% T:87%	pCi/L		12/10/20 14:10	
Total Radium Calculation	Total Radium	0.996 ± 0.914 (1.65)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	564	mg/L	10.0	11/19/20 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	11/16/20 15:32	H3
<b>50273274004</b>	<b>MW-12S</b>					
EPA 9056	Chloride	80.9	mg/L	25.0	12/04/20 07:43	
EPA 9056	Fluoride	0.28	mg/L	0.10	12/04/20 07:27	
EPA 9056	Sulfate	224	mg/L	25.0	12/04/20 07:43	
EPA 6010	Boron	9050	ug/L	100	11/30/20 09:10	
EPA 6010	Calcium	122000	ug/L	1000	11/30/20 09:10	
EPA 6010	Lithium	126	ug/L	20.0	11/30/20 09:10	
EPA 6010	Molybdenum	63.8	ug/L	10.0	11/30/20 09:10	
EPA 6020	Antimony	1.3	ug/L	1.0	11/18/20 22:12	
EPA 6020	Arsenic	1.4	ug/L	1.0	11/18/20 22:12	
EPA 6020	Barium	112	ug/L	1.0	11/18/20 22:12	
EPA 6020	Selenium	16.7	ug/L	1.0	11/18/20 22:12	
EPA 903.1	Radium-226	0.253 ± 0.305 (0.465) C:NA T:95%	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	0.335 ± 0.406 (0.859) C:68% T:91%	pCi/L		12/10/20 14:10	
Total Radium Calculation	Total Radium	0.588 ± 0.711 (1.32)	pCi/L		12/11/20 09:05	
SM 2540C	Total Dissolved Solids	732	mg/L	20.0	11/19/20 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/16/20 15:33	H3

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273274005</b>	<b>FIELD BLANK</b>					
EPA 9056	Chloride	0.40	mg/L	0.25	12/04/20 08:01	
EPA 903.1	Radium-226	-0.0680 ± 0.310 (0.731) C:NA T:86%	pCi/L		12/10/20 12:55	
EPA 904.0	Radium-228	-0.0546 ± 0.450 (1.07) C:64% T:73%	pCi/L		12/10/20 14:11	
Total Radium Calculation	Total Radium	0.000 ± 0.760 (1.80)	pCi/L		12/11/20 09:05	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	11/16/20 15:43	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Sample: MW-11S	Lab ID: 50273274001	Collected: 11/12/20 12:35	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>87.5</b>	mg/L	5.0	20		12/04/20 05:30	16887-00-6	
Fluoride	<b>0.20</b>	mg/L	0.10	1		12/04/20 05:15	16984-48-8	
Sulfate	<b>246</b>	mg/L	5.0	20		12/04/20 05:30	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>4270</b>	ug/L	100	1	11/28/20 07:00	11/30/20 09:03	7440-42-8	
Calcium	<b>148000</b>	ug/L	1000	1	11/28/20 07:00	11/30/20 09:03	7440-70-2	
Lithium	<b>136</b>	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:03	7439-93-2	
Molybdenum	<b>74.0</b>	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:03	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	<b>1.4</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:45	7440-36-0	
Arsenic	<b>141</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:45	7440-38-2	
Barium	<b>133</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:45	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:45	7440-48-4	
Selenium	<b>2.6</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:45	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>844</b>	mg/L	20.0	1		11/19/20 11:50		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.2</b>	Std. Units	0.10	1		11/16/20 15:30		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Sample: MW-111	Lab ID: 50273274002	Collected: 11/12/20 11:36	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>88.8</b>	mg/L	25.0	100		12/04/20 06:05	16887-00-6	
Fluoride	<b>0.41</b>	mg/L	0.10	1		12/04/20 05:49	16984-48-8	
Sulfate	<b>120</b>	mg/L	25.0	100		12/04/20 06:05	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>4140</b>	ug/L	100	1	11/28/20 07:00	11/30/20 09:05	7440-42-8	
Calcium	<b>73200</b>	ug/L	1000	1	11/28/20 07:00	11/30/20 09:05	7440-70-2	
Lithium	<b>93.2</b>	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:05	7439-93-2	
Molybdenum	<b>164</b>	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:05	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:50	7440-36-0	
Arsenic	<b>1.2</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:50	7440-38-2	
Barium	<b>43.0</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:50	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:50	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:50	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>524</b>	mg/L	10.0	1		11/19/20 11:50		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		11/16/20 15:31		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Sample: MW-11D	Lab ID: 50273274003	Collected: 11/12/20 10:47	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>102</b>	mg/L	25.0	100		12/04/20 06:37	16887-00-6	
Fluoride	<b>0.25</b>	mg/L	0.10	1		12/04/20 06:21	16984-48-8	
Sulfate	<b>129</b>	mg/L	25.0	100		12/04/20 06:37	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>3330</b>	ug/L	100	1	11/28/20 07:00	11/30/20 09:08	7440-42-8	
Calcium	<b>79000</b>	ug/L	1000	1	11/28/20 07:00	11/30/20 09:08	7440-70-2	
Lithium	<b>85.7</b>	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:08	7439-93-2	
Molybdenum	<b>170</b>	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:08	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:07	7440-36-0	
Arsenic	<b>4.6</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:07	7440-38-2	
Barium	<b>51.9</b>	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:07	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:07	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>564</b>	mg/L	10.0	1		11/19/20 11:51		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		11/16/20 15:32		H3

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Sample: MW-12S	Lab ID: 50273274004	Collected: 11/12/20 10:55	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	80.9	mg/L	25.0	100		12/04/20 07:43	16887-00-6	
Fluoride	0.28	mg/L	0.10	1		12/04/20 07:27	16984-48-8	
Sulfate	224	mg/L	25.0	100		12/04/20 07:43	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	9050	ug/L	100	1	11/28/20 07:00	11/30/20 09:10	7440-42-8	
Calcium	122000	ug/L	1000	1	11/28/20 07:00	11/30/20 09:10	7440-70-2	
Lithium	126	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:10	7439-93-2	
Molybdenum	63.8	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:10	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.3	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:12	7440-36-0	
Arsenic	1.4	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:12	7440-38-2	
Barium	112	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:12	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:12	7440-48-4	
Selenium	16.7	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:12	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	732	mg/L	20.0	1		11/19/20 11:51		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		11/16/20 15:33		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Sample: FIELD BLANK		Lab ID: 50273274005	Collected: 11/12/20 13:30	Received: 11/13/20 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	0.40	mg/L	0.25	1		12/04/20 08:01	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/04/20 08:01	16984-48-8	
Sulfate	ND	mg/L	0.25	1		12/04/20 08:01	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	ND	ug/L	100	1	12/02/20 13:35	12/02/20 23:21	7440-42-8	
Calcium	ND	ug/L	1000	1	12/02/20 13:35	12/02/20 23:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	12/02/20 13:35	12/02/20 23:21	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	12/02/20 13:35	12/02/20 23:21	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:17	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:17	7440-38-2	
Barium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:17	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:17	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 22:17	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	ND	mg/L	10.0	1		11/19/20 11:51		PL
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	6.6	Std. Units	0.10	1		11/16/20 15:43		H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch:	596201	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

METHOD BLANK: 2749485 Matrix: Water

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/04/20 04:08	
Fluoride	mg/L	ND	0.10	12/04/20 04:08	
Sulfate	mg/L	ND	0.25	12/04/20 04:08	

LABORATORY CONTROL SAMPLE: 2749486

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	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749487 2749488

Parameter	Units	50273281002		2749487		2749488		% 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	42.0	42.0	12.5	12.5	57.1	55.0	121	104	80-120	4	15	M0
Fluoride	mg/L	ND	ND	0.5	0.5	0.54	0.55	97	97	80-120	0	15	
Sulfate	mg/L	29.5	29.5	25	25	55.8	54.6	105	100	80-120	2	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch: 594274

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004

METHOD BLANK: 2741785

Matrix: Water

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	11/30/20 08:55	
Calcium	ug/L	ND	1000	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
Boron	ug/L	1000	915	92	80-120	
Calcium	ug/L	10000	9520	95	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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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
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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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
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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch: 595845

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273274005

METHOD BLANK: 2748340

Matrix: Water

Associated Lab Samples: 50273274005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	12/02/20 23:43	
Calcium	ug/L	ND	1000	12/02/20 23:43	
Lithium	ug/L	ND	20.0	12/02/20 23:43	
Molybdenum	ug/L	ND	10.0	12/02/20 23:43	

LABORATORY CONTROL SAMPLE: 2748341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	990	99	80-120	
Calcium	ug/L	10000	9940	99	80-120	
Lithium	ug/L	1000	982	98	80-120	
Molybdenum	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2748342 2748343

Parameter	Units	50274155002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	ug/L	1.7 mg/L	1000	1000	2710	2720	97	98	75-125	0	20	
Calcium	ug/L	113 mg/L	10000	10000	119000	120000	63	74	75-125	1	20	P6
Lithium	ug/L	ND	1000	1000	993	1010	98	100	75-125	2	20	
Molybdenum	ug/L	ND	1000	1000	988	1010	99	100	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch:	593449	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

METHOD BLANK: 2738124 Matrix: Water  
Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 19:35	
Arsenic	ug/L	ND	1.0	11/18/20 19:35	
Barium	ug/L	ND	1.0	11/18/20 19:35	
Cobalt	ug/L	ND	1.0	11/18/20 19:35	
Selenium	ug/L	ND	1.0	11/18/20 19:35	

LABORATORY CONTROL SAMPLE: 2738125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.4	98	80-120	
Arsenic	ug/L	40	36.9	92	80-120	
Barium	ug/L	40	38.7	97	80-120	
Cobalt	ug/L	40	40.7	102	80-120	
Selenium	ug/L	40	39.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738126 2738127

Parameter	Units	50272965003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Antimony	ug/L	ND	40	40	37.9	37.6	95	94	75-125	1	20		
Arsenic	ug/L	0.017 mg/L	40	40	51.5	50.8	87	85	75-125	1	20		
Barium	ug/L	0.027 mg/L	40	40	65.6	65.7	96	96	75-125	0	20		
Cobalt	ug/L	0.0020 mg/L	40	40	38.4	38.2	91	91	75-125	0	20		
Selenium	ug/L	ND	40	40	33.7	33.0	84	83	75-125	2	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50273274

QC Batch: 594041 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

METHOD BLANK: 2740506 Matrix: Water  
Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/19/20 11:47	

LABORATORY CONTROL SAMPLE: 2740507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 2740508

Parameter	Units	50273281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	406	400	1	10	

SAMPLE DUPLICATE: 2740509

Parameter	Units	50273286002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	703	709	1	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch: 593314

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: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

SAMPLE DUPLICATE: 2737737

Parameter	Units	50273281002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2737738

Parameter	Units	50273281001 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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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

**Sample: MW-11S**      **Lab ID: 50273274001**      Collected: 11/12/20 12:35      Received: 11/13/20 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	<b>0.339 ± 0.316 (0.416)</b> <b>C:NA T:97%</b>	pCi/L	12/10/20 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.425 ± 0.406 (0.834)</b> <b>C:73% T:87%</b>	pCi/L	12/10/20 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.764 ± 0.722 (1.25)</b>	pCi/L	12/11/20 09:05	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

**Sample: MW-111**      **Lab ID: 50273274002**      Collected: 11/12/20 11:36      Received: 11/13/20 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	<b>0.436 ± 0.475 (0.748)</b> <b>C:NA T:90%</b>	pCi/L	12/10/20 12:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.696 ± 0.475 (0.916)</b> <b>C:71% T:83%</b>	pCi/L	12/10/20 14:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.13 ± 0.950 (1.66)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

**Sample: MW-11D**      **Lab ID: 50273274003**      Collected: 11/12/20 10:47      Received: 11/13/20 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	<b>0.342 ± 0.446 (0.736)</b> <b>C:NA T:87%</b>	pCi/L	12/10/20 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.654 ± 0.468 (0.910)</b> <b>C:71% T:87%</b>	pCi/L	12/10/20 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.996 ± 0.914 (1.65)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

**Sample: MW-12S**      **Lab ID: 50273274004**      Collected: 11/12/20 10:55      Received: 11/13/20 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	<b>0.253 ± 0.305 (0.465)</b> <b>C:NA T:95%</b>	pCi/L	12/10/20 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.335 ± 0.406 (0.859)</b> <b>C:68% T:91%</b>	pCi/L	12/10/20 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.588 ± 0.711 (1.32)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FIELD BLANK</b> <b>Lab ID: 50273274005</b> Collected: 11/12/20 13:30      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>-0.0680 ± 0.310 (0.731)</b> <b>C:NA T:86%</b>	pCi/L	12/10/20 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>-0.0546 ± 0.450 (1.07)</b> <b>C:64% T:73%</b>	pCi/L	12/10/20 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.760 (1.80)</b>	pCi/L	12/11/20 09:05	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch: 424205

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: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

METHOD BLANK: 2050437

Matrix: Water

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.195 ± 0.359 (0.640) C:NA T:91%	pCi/L	12/10/20 12:55	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

QC Batch: 424206

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: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

METHOD BLANK: 2050438

Matrix: Water

Associated Lab Samples: 50273274001, 50273274002, 50273274003, 50273274004, 50273274005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.336 ± 0.397 (0.832) C:73% T:71%	pCi/L	12/10/20 14:09	

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## QUALIFIERS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273274

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273274001	MW-11S	EPA 9056	596201		
50273274002	MW-11I	EPA 9056	596201		
50273274003	MW-11D	EPA 9056	596201		
50273274004	MW-12S	EPA 9056	596201		
50273274005	FIELD BLANK	EPA 9056	596201		
50273274001	MW-11S	EPA 3010	594274	EPA 6010	595526
50273274002	MW-11I	EPA 3010	594274	EPA 6010	595526
50273274003	MW-11D	EPA 3010	594274	EPA 6010	595526
50273274004	MW-12S	EPA 3010	594274	EPA 6010	595526
50273274005	FIELD BLANK	EPA 3010	595845	EPA 6010	596147
50273274001	MW-11S	EPA 200.2	593449	EPA 6020	593713
50273274002	MW-11I	EPA 200.2	593449	EPA 6020	593713
50273274003	MW-11D	EPA 200.2	593449	EPA 6020	593713
50273274004	MW-12S	EPA 200.2	593449	EPA 6020	593713
50273274005	FIELD BLANK	EPA 200.2	593449	EPA 6020	593713
50273274001	MW-11S	EPA 903.1	424205		
50273274002	MW-11I	EPA 903.1	424205		
50273274003	MW-11D	EPA 903.1	424205		
50273274004	MW-12S	EPA 903.1	424205		
50273274005	FIELD BLANK	EPA 903.1	424205		
50273274001	MW-11S	EPA 904.0	424206		
50273274002	MW-11I	EPA 904.0	424206		
50273274003	MW-11D	EPA 904.0	424206		
50273274004	MW-12S	EPA 904.0	424206		
50273274005	FIELD BLANK	EPA 904.0	424206		
50273274001	MW-11S	Total Radium Calculation	426782		
50273274002	MW-11I	Total Radium Calculation	426782		
50273274003	MW-11D	Total Radium Calculation	426782		
50273274004	MW-12S	Total Radium Calculation	426782		
50273274005	FIELD BLANK	Total Radium Calculation	426782		
50273274001	MW-11S	SM 2540C	594041		
50273274002	MW-11I	SM 2540C	594041		
50273274003	MW-11D	SM 2540C	594041		
50273274004	MW-12S	SM 2540C	594041		
50273274005	FIELD BLANK	SM 2540C	594041		
50273274001	MW-11S	SM 4500-H+B	593314		
50273274002	MW-11I	SM 4500-H+B	593314		
50273274003	MW-11D	SM 4500-H+B	593314		
50273274004	MW-12S	SM 4500-H+B	593314		
50273274005	FIELD BLANK	SM 4500-H+B	593314		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DP 11/13/20 1650

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: 1.2/1.1, 1.6/1.5  
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: 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)	<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?	<u>DP 11/13/20</u>	/	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: CFC mt relinquished DP 11/13/20



Sample Container Count

SBS  
DI  
BK  
Kit

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
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

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																2	1	1	1											WT	✓		
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
JGUFU	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



February 01, 2021

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

RE: Project: Eagle Valley Profile 1 Report3  
Pace Project No.: 50273281

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273281001	MW-13S	Water	11/12/20 13:00	11/13/20 16:40
50273281002	MW-13I	Water	11/12/20 12:30	11/13/20 16:40
50273281003	MW-13D	Water	11/12/20 11:40	11/13/20 16:40
50273281004	Field Blank 3	Water	11/12/20 13:50	11/13/20 16:40
50273281005	MW-13I MS	Water	11/12/20 12:30	11/13/20 16:40
50273281006	MW-13I MSD	Water	11/12/20 12:30	11/13/20 16:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273281001	MW-13S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	ILP	1	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
50273281002	MW-13I	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	ILP	1	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
50273281003	MW-13D	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	ILP	1	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
50273281004	Field Blank 3	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	8	PASI-I
		EPA 6020	DMT	6	PASI-I
		EPA 7470	ILP	1	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
50273281005	MW-13I MS	EPA 903.1	MK1	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report3  
Pace Project No.: 50273281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273281006	MW-13I MSD	EPA 904.0	VAL	1	PASI-PA
		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: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273281001</b>	<b>MW-13S</b>					
EPA 9056	Chloride	10	mg/L	0.25	12/04/20 08:18	
EPA 9056	Sulfate	12.7	mg/L	0.25	12/04/20 08:18	
EPA 6010	Barium	44.5	ug/L	10.0	11/30/20 09:12	
EPA 6010	Calcium	103000	ug/L	1000	11/30/20 09:12	
EPA 903.1	Radium-226	0.285 ± 0.485 (0.856)	pCi/L		12/10/20 11:54	
EPA 904.0	Radium-228	C:NA T:87% 0.887 ± 0.468 (0.837)	pCi/L		12/10/20 11:05	
		C:69% T:88%				
Total Radium Calculation	Total Radium	1.17 ± 0.953 (1.69)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	387	mg/L	10.0	11/19/20 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/16/20 15:46	H3
<b>50273281002</b>	<b>MW-13I</b>					
EPA 9056	Chloride	42.0	mg/L	2.5	12/04/20 09:38	
EPA 9056	Sulfate	29.5	mg/L	2.5	12/04/20 09:38	
EPA 6010	Barium	38.0	ug/L	10.0	11/30/20 09:15	
EPA 6010	Calcium	96300	ug/L	1000	11/30/20 09:15	
EPA 6020	Arsenic	2.0	ug/L	1.0	11/20/20 14:44	
EPA 6020	Cobalt	1.0	ug/L	1.0	11/20/20 14:44	
EPA 903.1	Radium-226	0.000 ± 0.267 (0.578)	pCi/L		12/10/20 11:54	
EPA 904.0	Radium-228	C:NA T:102% 0.703 ± 0.423 (0.786)	pCi/L		12/10/20 11:06	
		C:74% T:83%				
Total Radium Calculation	Total Radium	0.703 ± 0.690 (1.36)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	406	mg/L	10.0	11/19/20 11:52	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/16/20 15:50	H3
<b>50273281003</b>	<b>MW-13D</b>					
EPA 9056	Chloride	52.2	mg/L	2.5	12/04/20 11:16	
EPA 9056	Sulfate	40.9	mg/L	2.5	12/04/20 11:16	
EPA 6010	Barium	57.9	ug/L	10.0	11/30/20 09:30	
EPA 6010	Calcium	97900	ug/L	1000	11/30/20 09:30	
EPA 6020	Arsenic	1.3	ug/L	1.0	11/20/20 15:16	
EPA 6020	Cobalt	1.2	ug/L	1.0	11/20/20 15:16	
EPA 6020	Selenium	1.2	ug/L	1.0	11/20/20 15:16	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273281003</b>	<b>MW-13D</b>					
EPA 903.1	Radium-226	0.375 ± 0.489 (0.807) C:NA T:89%	pCi/L		12/10/20 11:54	
EPA 904.0	Radium-228	0.726 ± 0.481 (0.926) C:72% T:78%	pCi/L		12/10/20 11:05	
Total Radium Calculation	Total Radium	1.10 ± 0.970 (1.73)	pCi/L		12/10/20 15:57	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	11/19/20 11:52	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/16/20 15:54	H3
<b>50273281004</b>	<b>Field Blank 3</b>					
EPA 903.1	Radium-226	0.000 ± 0.269 (0.434) C:NA T:98%	pCi/L		12/10/20 11:54	
EPA 904.0	Radium-228	0.136 ± 0.401 (0.901) C:69% T:80%	pCi/L		12/10/20 11:05	
Total Radium Calculation	Total Radium	0.136 ± 0.670 (1.34)	pCi/L		12/10/20 15:57	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	11/16/20 15:59	H3
<b>50273281005</b>	<b>MW-13I MS</b>					
EPA 903.1	Radium-226	114.97 %REC ± NA (NA) C:NA T:NA	pCi/L		12/10/20 12:06	
EPA 904.0	Radium-228	79.83 %REC ± NA (NA) C:NA T:NA	pCi/L		12/10/20 11:05	
<b>50273281006</b>	<b>MW-13I MSD</b>					
EPA 903.1	Radium-226	84.82 %REC 30.18 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 12:06	
EPA 904.0	Radium-228	81.87 %REC 2.52 RPD ± NA (NA) C:NA T:NA	pCi/L		12/10/20 11:05	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Sample: MW-13S	Lab ID: 50273281001	Collected: 11/12/20 13:00	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	10	mg/L	0.25	1		12/04/20 08:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/04/20 08:18	16984-48-8	
Sulfate	12.7	mg/L	0.25	1		12/04/20 08:18	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	44.5	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:12	7440-39-3	
Boron	ND	ug/L	100	1	11/28/20 07:00	11/30/20 09:12	7440-42-8	
Cadmium	ND	ug/L	2.0	1	11/28/20 07:00	11/30/20 09:12	7440-43-9	
Calcium	103000	ug/L	1000	1	11/28/20 07:00	11/30/20 09:12	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:12	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:12	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:12	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:12	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:30	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:30	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/18/20 17:31	11/20/20 14:30	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:30	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:30	7782-49-2	
Thallium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:30	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	11/18/20 21:19	11/19/20 11:47	7439-97-6	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	387	mg/L	10.0	1		11/19/20 11:51		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/16/20 15:46		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Sample: MW-13I	Lab ID: 50273281002	Collected: 11/12/20 12:30	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	42.0	mg/L	2.5	10		12/04/20 09:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/04/20 08:49	16984-48-8	
Sulfate	29.5	mg/L	2.5	10		12/04/20 09:38	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	38.0	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:15	7440-39-3	
Boron	ND	ug/L	100	1	11/28/20 07:00	11/30/20 09:15	7440-42-8	
Cadmium	ND	ug/L	2.0	1	11/28/20 07:00	11/30/20 09:15	7440-43-9	
Calcium	96300	ug/L	1000	1	11/28/20 07:00	11/30/20 09:15	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:15	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:15	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:15	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:15	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:44	7440-36-0	
Arsenic	2.0	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:44	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/18/20 17:31	11/20/20 14:44	7440-41-7	
Cobalt	1.0	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:44	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:44	7782-49-2	
Thallium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 14:44	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	11/18/20 21:19	11/19/20 11:50	7439-97-6	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	406	mg/L	10.0	1		11/19/20 11:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/16/20 15:50		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Sample: MW-13D	Lab ID: 50273281003	Collected: 11/12/20 11:40	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	52.2	mg/L	2.5	10		12/04/20 11:16	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/04/20 11:00	16984-48-8	
Sulfate	40.9	mg/L	2.5	10		12/04/20 11:16	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	57.9	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:30	7440-39-3	
Boron	ND	ug/L	100	1	11/28/20 07:00	11/30/20 09:30	7440-42-8	
Cadmium	ND	ug/L	2.0	1	11/28/20 07:00	11/30/20 09:30	7440-43-9	
Calcium	97900	ug/L	1000	1	11/28/20 07:00	11/30/20 09:30	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:30	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:30	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:30	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:30	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:16	7440-36-0	
Arsenic	1.3	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:16	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/18/20 17:31	11/20/20 15:16	7440-41-7	
Cobalt	1.2	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:16	7440-48-4	
Selenium	1.2	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:16	7782-49-2	
Thallium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:16	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	11/18/20 21:19	11/19/20 11:57	7439-97-6	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	391	mg/L	10.0	1		11/19/20 11:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/16/20 15:54		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Sample: Field Blank 3	Lab ID: 50273281004	Collected: 11/12/20 13:50	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		12/04/20 11:49	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/04/20 11:49	16984-48-8	
Sulfate	ND	mg/L	0.25	1		12/04/20 11:49	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Barium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:32	7440-39-3	
Boron	ND	ug/L	100	1	11/28/20 07:00	11/30/20 09:32	7440-42-8	
Cadmium	ND	ug/L	2.0	1	11/28/20 07:00	11/30/20 09:32	7440-43-9	
Calcium	ND	ug/L	1000	1	11/28/20 07:00	11/30/20 09:32	7440-70-2	
Chromium	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:32	7440-47-3	
Lead	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:32	7439-92-1	
Lithium	ND	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:32	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:32	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:21	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:21	7440-38-2	
Beryllium	ND	ug/L	0.20	1	11/18/20 17:31	11/20/20 15:21	7440-41-7	
Cobalt	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:21	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:21	7782-49-2	
Thallium	ND	ug/L	1.0	1	11/18/20 17:31	11/20/20 15:21	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	11/18/20 21:19	11/19/20 11:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/19/20 11:52		PL
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		11/16/20 15:59		H3

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 596201 Analysis Method: EPA 9056  
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

METHOD BLANK: 2749485 Matrix: Water  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/04/20 04:08	
Fluoride	mg/L	ND	0.10	12/04/20 04:08	
Sulfate	mg/L	ND	0.25	12/04/20 04:08	

LABORATORY CONTROL SAMPLE: 2749486

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	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749487 2749488

Parameter	Units	50273281002		50273281003		50273281004		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	42.0	12.5	12.5	57.1	55.0	121	104	80-120	4	15	M0	
Fluoride	mg/L	ND	0.5	0.5	0.54	0.55	97	97	80-120	0	15		
Sulfate	mg/L	29.5	25	25	55.8	54.6	105	100	80-120	2	15		

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 593850 Analysis Method: EPA 7470  
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

METHOD BLANK: 2739749 Matrix: Water  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	11/19/20 11:20	

LABORATORY CONTROL SAMPLE: 2739750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2739751 2739752

Parameter	Units	50273281002 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	4.8	97	95	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 594274

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

METHOD BLANK: 2741785

Matrix: Water

Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

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	
Cadmium	ug/L	ND	2.0	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	
Cadmium	ug/L	1000	903	90	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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273281002 Result	Spike Conc.	Spike Conc.	Result						
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
Cadmium	ug/L	ND	1000	1000	927	930	93	93	75-125	0	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

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Parameter	Units	50273628003		2741789		2741790		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	ug/L	284	1000	1000	1220	1170	94	89	75-125	4	20			
Boron	ug/L	8550	1000	1000	9670	9190	112	64	75-125	5	20	P6		
Cadmium	ug/L	ND	1000	1000	940	916	94	92	75-125	3	20			
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: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 593793 Analysis Method: EPA 6020  
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

METHOD BLANK: 2739406 Matrix: Water  
 Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/20/20 14:06	
Arsenic	ug/L	ND	1.0	11/20/20 14:06	
Beryllium	ug/L	ND	0.20	11/20/20 14:06	
Cobalt	ug/L	ND	1.0	11/20/20 14:06	
Selenium	ug/L	ND	1.0	11/20/20 14:06	
Thallium	ug/L	ND	1.0	11/20/20 14:06	

LABORATORY CONTROL SAMPLE: 2739407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.8	102	80-120	
Arsenic	ug/L	40	37.6	94	80-120	
Beryllium	ug/L	40	38.3	96	80-120	
Cobalt	ug/L	40	40.8	102	80-120	
Selenium	ug/L	40	38.5	96	80-120	
Thallium	ug/L	40	39.6	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2739408 2739409

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273281002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	39.6	38.4	99	96	75-125	3	20
Arsenic	ug/L	2.0	40	40	38.2	38.8	90	92	75-125	2	20
Beryllium	ug/L	ND	40	40	37.8	37.1	95	93	75-125	2	20
Cobalt	ug/L	1.0	40	40	39.4	38.4	96	93	75-125	2	20
Selenium	ug/L	ND	40	40	35.9	37.7	89	94	75-125	5	20
Thallium	ug/L	ND	40	40	41.0	39.9	102	99	75-125	3	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch:	594041	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273281001, 50273281002, 50273281003, 50273281004		

METHOD BLANK: 2740506 Matrix: Water  
Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/19/20 11:47	

LABORATORY CONTROL SAMPLE: 2740507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 2740508

Parameter	Units	50273281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	406	400	1	10	

SAMPLE DUPLICATE: 2740509

Parameter	Units	50273286002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	703	709	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

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QC Batch: 593314	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: 50273281001, 50273281002, 50273281003, 50273281004

SAMPLE DUPLICATE: 2737737

Parameter	Units	50273281002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2737738

Parameter	Units	50273281001 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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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

**Sample: MW-13S**      **Lab ID: 50273281001**      Collected: 11/12/20 13:00      Received: 11/13/20 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	<b>0.285 ± 0.485 (0.856)</b> <b>C:NA T:87%</b>	pCi/L	12/10/20 11:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.887 ± 0.468 (0.837)</b> <b>C:69% T:88%</b>	pCi/L	12/10/20 11:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.17 ± 0.953 (1.69)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-131</b> <b>Lab ID: 50273281002</b> Collected: 11/12/20 12:30      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.000 ± 0.267 (0.578)</b> <b>C:NA T:102%</b>	pCi/L	12/10/20 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.703 ± 0.423 (0.786)</b> <b>C:74% T:83%</b>	pCi/L	12/10/20 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.703 ± 0.690 (1.36)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

**Sample: MW-13D**      **Lab ID: 50273281003**      Collected: 11/12/20 11:40      Received: 11/13/20 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	<b>0.375 ± 0.489 (0.807)</b> <b>C:NA T:89%</b>	pCi/L	12/10/20 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.726 ± 0.481 (0.926)</b> <b>C:72% T:78%</b>	pCi/L	12/10/20 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.10 ± 0.970 (1.73)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: Field Blank 3</b> <b>Lab ID: 50273281004</b> Collected: 11/12/20 13:50      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.000 ± 0.269 (0.434)</b> <b>C:NA T:98%</b>	pCi/L	12/10/20 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.136 ± 0.401 (0.901)</b> <b>C:69% T:80%</b>	pCi/L	12/10/20 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.136 ± 0.670 (1.34)</b>	pCi/L	12/10/20 15:57	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-13I MS</b> <b>Lab ID: 50273281005</b> Collected: 11/12/20 12:30      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>114.97 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>79.83 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 11:05	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>84.82 %REC 30.18 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 12:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>81.87 %REC 2.52 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/10/20 11:05	15262-20-1	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 424204

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: 50273281001, 50273281002, 50273281003, 50273281004, 50273281005, 50273281006

METHOD BLANK: 2050434

Matrix: Water

Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004, 50273281005, 50273281006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0187 ± 0.379 (0.881) C:69% T:74%	pCi/L	12/10/20 11:05	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

QC Batch: 424203

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: 50273281001, 50273281002, 50273281003, 50273281004, 50273281005, 50273281006

METHOD BLANK: 2050433

Matrix: Water

Associated Lab Samples: 50273281001, 50273281002, 50273281003, 50273281004, 50273281005, 50273281006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0555 ± 0.361 (0.783) C:NA T:87%	pCi/L	12/10/20 11:54	

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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## QUALIFIERS

Project: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

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: Eagle Valley Profile 1 Report3

Pace Project No.: 50273281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273281001	MW-13S	EPA 9056	596201		
50273281002	MW-13I	EPA 9056	596201		
50273281003	MW-13D	EPA 9056	596201		
50273281004	Field Blank 3	EPA 9056	596201		
50273281001	MW-13S	EPA 3010	594274	EPA 6010	595526
50273281002	MW-13I	EPA 3010	594274	EPA 6010	595526
50273281003	MW-13D	EPA 3010	594274	EPA 6010	595526
50273281004	Field Blank 3	EPA 3010	594274	EPA 6010	595526
50273281001	MW-13S	EPA 200.2	593793	EPA 6020	594028
50273281002	MW-13I	EPA 200.2	593793	EPA 6020	594028
50273281003	MW-13D	EPA 200.2	593793	EPA 6020	594028
50273281004	Field Blank 3	EPA 200.2	593793	EPA 6020	594028
50273281001	MW-13S	EPA 7470	593850	EPA 7470	594037
50273281002	MW-13I	EPA 7470	593850	EPA 7470	594037
50273281003	MW-13D	EPA 7470	593850	EPA 7470	594037
50273281004	Field Blank 3	EPA 7470	593850	EPA 7470	594037
50273281001	MW-13S	EPA 903.1	424203		
50273281002	MW-13I	EPA 903.1	424203		
50273281003	MW-13D	EPA 903.1	424203		
50273281004	Field Blank 3	EPA 903.1	424203		
50273281005	MW-13I MS	EPA 903.1	424203		
50273281006	MW-13I MSD	EPA 903.1	424203		
50273281001	MW-13S	EPA 904.0	424204		
50273281002	MW-13I	EPA 904.0	424204		
50273281003	MW-13D	EPA 904.0	424204		
50273281004	Field Blank 3	EPA 904.0	424204		
50273281005	MW-13I MS	EPA 904.0	424204		
50273281006	MW-13I MSD	EPA 904.0	424204		
50273281001	MW-13S	Total Radium Calculation	426708		
50273281002	MW-13I	Total Radium Calculation	426708		
50273281003	MW-13D	Total Radium Calculation	426708		
50273281004	Field Blank 3	Total Radium Calculation	426708		
50273281001	MW-13S	SM 2540C	594041		
50273281002	MW-13I	SM 2540C	594041		
50273281003	MW-13D	SM 2540C	594041		
50273281004	Field Blank 3	SM 2540C	594041		
50273281001	MW-13S	SM 4500-H+B	593314		
50273281002	MW-13I	SM 4500-H+B	593314		
50273281003	MW-13D	SM 4500-H+B	593314		
50273281004	Field Blank 3	SM 4500-H+B	593314		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MM 11.13.20 1655

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: 2.2 / 2.1°C  
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: 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:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### 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
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		
DG9U	40mL unpreserved <b>amber</b> 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 <b>clear</b> 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 01, 2021

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

RE: Project: Eagle Valley Profile 1 Report2  
Pace Project No.: 50273286

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 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: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273286001	MW-14S	Water	11/13/20 12:20	11/13/20 16:40
50273286002	MW-14I	Water	11/13/20 11:35	11/13/20 16:40
50273286003	MW-14D	Water	11/13/20 11:00	11/13/20 16:40
50273286004	Field Blank 2	Water	11/12/20 13:40	11/13/20 16:40

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273286001	MW-14S	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	4	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
50273286002	MW-14I	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	4	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
50273286003	MW-14D	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	4	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
50273286004	Field Blank 2	EPA 9056	HBS	3	PASI-I
		EPA 6010	JDG	4	PASI-I
		EPA 6020	CAW, 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

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273286001</b>	<b>MW-14S</b>					
EPA 9056	Chloride	5.0	mg/L	0.25	11/25/20 17:34	
EPA 9056	Fluoride	0.14	mg/L	0.10	11/25/20 17:34	
EPA 9056	Sulfate	12.5	mg/L	0.25	11/25/20 17:34	
EPA 6010	Boron	238	ug/L	100	11/30/20 09:34	
EPA 6010	Calcium	96800	ug/L	1000	11/30/20 09:34	
EPA 6010	Lithium	20.1	ug/L	20.0	11/30/20 09:34	
EPA 6010	Molybdenum	43.5	ug/L	10.0	11/30/20 09:34	
EPA 6020	Barium	34.2	ug/L	1.0	11/18/20 20:55	
EPA 903.1	Radium-226	0.538 ± 0.561 (0.839)	pCi/L		12/11/20 12:18	
EPA 904.0	Radium-228	C:NA T:87% 0.564 ± 0.492 (1.00) C:65% T:87%	pCi/L		12/10/20 15:17	
Total Radium Calculation	Total Radium	1.10 ± 1.05 (1.84)	pCi/L		12/11/20 15:24	
SM 2540C	Total Dissolved Solids	355	mg/L	10.0	11/19/20 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/18/20 13:13	H3
<b>50273286002</b>	<b>MW-14I</b>					
EPA 9056	Chloride	58.7	mg/L	2.5	11/25/20 18:25	
EPA 9056	Sulfate	220	mg/L	2.5	11/25/20 18:25	
EPA 6010	Boron	1780	ug/L	100	11/30/20 09:36	
EPA 6010	Calcium	131000	ug/L	1000	11/30/20 09:36	
EPA 6010	Lithium	60.8	ug/L	20.0	11/30/20 09:36	
EPA 6010	Molybdenum	77.1	ug/L	10.0	11/30/20 09:36	
EPA 6020	Barium	60.7	ug/L	1.0	11/18/20 21:00	
EPA 903.1	Radium-226	-0.220 ± 0.460 (1.03) C:NA T:96%	pCi/L		12/11/20 12:18	
EPA 904.0	Radium-228	0.541 ± 0.479 (0.981) C:70% T:89%	pCi/L		12/10/20 15:17	
Total Radium Calculation	Total Radium	0.541 ± 0.939 (2.01)	pCi/L		12/11/20 15:24	
SM 2540C	Total Dissolved Solids	703	mg/L	10.0	11/19/20 12:00	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	11/18/20 13:14	H3
<b>50273286003</b>	<b>MW-14D</b>					
EPA 9056	Chloride	78.5	mg/L	25.0	11/25/20 18:58	
EPA 9056	Fluoride	0.35	mg/L	0.10	11/25/20 18:42	
EPA 9056	Sulfate	187	mg/L	25.0	11/25/20 18:58	
EPA 6010	Boron	601	ug/L	100	11/30/20 09:39	
EPA 6010	Calcium	135000	ug/L	1000	11/30/20 09:39	
EPA 6010	Lithium	20.8	ug/L	20.0	11/30/20 09:39	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50273286003</b>	<b>MW-14D</b>					
EPA 6010	Molybdenum	26.4	ug/L	10.0	11/30/20 09:39	
EPA 6020	Antimony	1.8	ug/L	1.0	11/18/20 21:05	
EPA 6020	Barium	51.1	ug/L	1.0	11/18/20 21:05	
EPA 903.1	Radium-226	0.567 ± 0.486 (0.654)	pCi/L		12/11/20 12:18	
EPA 904.0	Radium-228	C:NA T:94% 0.493 ± 0.473 (0.974)	pCi/L		12/10/20 15:17	
Total Radium Calculation	Total Radium	C:61% T:90% 1.06 ± 0.959 (1.63)	pCi/L		12/11/20 15:20	
SM 2540C	Total Dissolved Solids	729	mg/L	10.0	11/19/20 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/18/20 13:15	H3
<b>50273286004</b>	<b>Field Blank 2</b>					
EPA 903.1	Radium-226	0.501 ± 0.516 (0.752)	pCi/L		12/11/20 12:18	
EPA 904.0	Radium-228	C:NA T:87% 0.521 ± 0.461 (0.937)	pCi/L		12/10/20 15:17	
Total Radium Calculation	Total Radium	C:67% T:84% 1.02 ± 0.977 (1.69)	pCi/L		12/11/20 15:20	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	11/18/20 13:23	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Sample: MW-14S	Lab ID: 50273286001	Collected: 11/13/20 12:20	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	5.0	mg/L	0.25	1		11/25/20 17:34	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		11/25/20 17:34	16984-48-8	
Sulfate	12.5	mg/L	0.25	1		11/25/20 17:34	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	238	ug/L	100	1	11/28/20 07:00	11/30/20 09:34	7440-42-8	
Calcium	96800	ug/L	1000	1	11/28/20 07:00	11/30/20 09:34	7440-70-2	
Lithium	20.1	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:34	7439-93-2	
Molybdenum	43.5	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:34	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 20:55	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 20:55	7440-38-2	
Barium	34.2	ug/L	1.0	1	11/17/20 11:35	11/18/20 20:55	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 20:55	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 20:55	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	355	mg/L	10.0	1		11/19/20 11:53		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/18/20 13:13		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Sample: MW-141		Lab ID: 50273286002	Collected: 11/13/20 11:35	Received: 11/13/20 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	58.7	mg/L	2.5	10		11/25/20 18:25	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/25/20 18:08	16984-48-8	
Sulfate	220	mg/L	2.5	10		11/25/20 18:25	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Boron	1780	ug/L	100	1	11/28/20 07:00	11/30/20 09:36	7440-42-8	
Calcium	131000	ug/L	1000	1	11/28/20 07:00	11/30/20 09:36	7440-70-2	
Lithium	60.8	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:36	7439-93-2	
Molybdenum	77.1	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:36	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:00	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:00	7440-38-2	
Barium	60.7	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:00	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:00	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:00	7782-49-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	703	mg/L	10.0	1		11/19/20 12:00		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		11/18/20 13:14		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Sample: MW-14D	Lab ID: 50273286003	Collected: 11/13/20 11:00	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	78.5	mg/L	25.0	100		11/25/20 18:58	16887-00-6	
Fluoride	0.35	mg/L	0.10	1		11/25/20 18:42	16984-48-8	
Sulfate	187	mg/L	25.0	100		11/25/20 18:58	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	601	ug/L	100	1	11/28/20 07:00	11/30/20 09:39	7440-42-8	
Calcium	135000	ug/L	1000	1	11/28/20 07:00	11/30/20 09:39	7440-70-2	
Lithium	20.8	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:39	7439-93-2	
Molybdenum	26.4	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:39	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.8	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:05	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:05	7440-38-2	
Barium	51.1	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:05	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:05	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:05	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	729	mg/L	10.0	1		11/19/20 12:01		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		11/18/20 13:15		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Sample: Field Blank 2	Lab ID: 50273286004	Collected: 11/12/20 13:40	Received: 11/13/20 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		11/25/20 19:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/25/20 19:15	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/25/20 19:15	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	ND	ug/L	100	1	11/28/20 07:00	11/30/20 09:41	7440-42-8	
Calcium	ND	ug/L	1000	1	11/28/20 07:00	11/30/20 09:41	7440-70-2	
Lithium	ND	ug/L	20.0	1	11/28/20 07:00	11/30/20 09:41	7439-93-2	
Molybdenum	ND	ug/L	10.0	1	11/28/20 07:00	11/30/20 09:41	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:09	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:09	7440-38-2	
Barium	ND	ug/L	1.0	1	11/19/20 17:42	11/22/20 23:25	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:09	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/17/20 11:35	11/18/20 21:09	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/19/20 11:53		PL
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		11/18/20 13:23		H3

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 594885      Analysis Method: EPA 9056  
 QC Batch Method: EPA 9056      Analysis Description: 9056 IC Anions  
    Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2744508      Matrix: Water  
 Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/25/20 10:51	
Fluoride	mg/L	ND	0.10	11/25/20 10:51	
Sulfate	mg/L	ND	0.25	11/25/20 10:51	

LABORATORY CONTROL SAMPLE: 2744509

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	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2744510      2744511

Parameter	Units	50272107001		2744511		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Chloride	mg/L	2.5	1.2	1.2	3.6	3.6	89	90	80-120	0	15		
Fluoride	mg/L	0.11	0.5	0.5	0.60	0.60	98	98	80-120	0	15		
Sulfate	mg/L	189	25	25	216	217	111	112	80-120	0	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 594274

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2741785

Matrix: Water

Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	11/30/20 08:55	
Calcium	ug/L	ND	1000	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
Boron	ug/L	1000	915	92	80-120	
Calcium	ug/L	10000	9520	95	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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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
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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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
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: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 593451 Analysis Method: EPA 6020  
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2738133 Matrix: Water  
 Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	11/18/20 18:26	
Arsenic	ug/L	ND	1.0	11/18/20 18:26	
Barium	ug/L	ND	1.0	11/18/20 18:26	
Cobalt	ug/L	ND	1.0	11/18/20 18:26	
Selenium	ug/L	ND	1.0	11/18/20 18:26	

LABORATORY CONTROL SAMPLE: 2738134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.9	100	80-120	
Arsenic	ug/L	40	37.5	94	80-120	
Barium	ug/L	40	39.0	97	80-120	
Cobalt	ug/L	40	40.1	100	80-120	
Selenium	ug/L	40	38.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2738135 2738136

Parameter	Units	50273131003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Antimony	ug/L	ND	40	40	40.1	40.1	100	100	75-125	0	20		
Arsenic	ug/L	4.2	40	40	41.4	41.7	93	94	75-125	1	20		
Barium	ug/L	59.2	40	40	99.2	96.4	100	93	75-125	3	20		
Cobalt	ug/L	ND	40	40	39.1	38.6	98	96	75-125	1	20		
Selenium	ug/L	ND	40	40	38.5	38.4	96	96	75-125	0	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

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: 50273286004

METHOD BLANK: 2740551

Matrix: Water

Associated Lab Samples: 50273286004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	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
Barium	ug/L	40	37.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2740553 2740554

Parameter	Units	50273628003		2740554		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Barium	ug/L	278	40	40	317	317	98	98	75-125	0	20 E

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report2  
Pace Project No.: 50273286

QC Batch: 594041 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2740506 Matrix: Water  
Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/19/20 11:47	

LABORATORY CONTROL SAMPLE: 2740507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 2740508

Parameter	Units	50273281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	406	400	1	10	

SAMPLE DUPLICATE: 2740509

Parameter	Units	50273286002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	703	709	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 593861

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: 50273286001, 50273286002, 50273286003, 50273286004

SAMPLE DUPLICATE: 2739807

Parameter	Units	50273142001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

SAMPLE DUPLICATE: 2739808

Parameter	Units	50273293001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.5	6.5	0	2	H3

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

**Sample: MW-14S**      **Lab ID: 50273286001**      Collected: 11/13/20 12:20      Received: 11/13/20 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	<b>0.538 ± 0.561 (0.839)</b> <b>C:NA T:87%</b>	pCi/L	12/11/20 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.564 ± 0.492 (1.00)</b> <b>C:65% T:87%</b>	pCi/L	12/10/20 15:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.10 ± 1.05 (1.84)</b>	pCi/L	12/11/20 15:24	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

**Sample: MW-141**      **Lab ID: 50273286002**      Collected: 11/13/20 11:35      Received: 11/13/20 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	<b>-0.220 ± 0.460 (1.03)</b> <b>C:NA T:96%</b>	pCi/L	12/11/20 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.541 ± 0.479 (0.981)</b> <b>C:70% T:89%</b>	pCi/L	12/10/20 15:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.541 ± 0.939 (2.01)</b>	pCi/L	12/11/20 15:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-14D</b> <b>Lab ID: 50273286003</b> Collected: 11/13/20 11:00      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.567 ± 0.486 (0.654)</b> <b>C:NA T:94%</b>	pCi/L	12/11/20 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.493 ± 0.473 (0.974)</b> <b>C:61% T:90%</b>	pCi/L	12/10/20 15:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.06 ± 0.959 (1.63)</b>	pCi/L	12/11/20 15:20	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: Field Blank 2</b> <b>Lab ID: 50273286004</b> Collected: 11/12/20 13:40      Received: 11/13/20 16:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.501 ± 0.516 (0.752)</b> <b>C:NA T:87%</b>	pCi/L	12/11/20 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.521 ± 0.461 (0.937)</b> <b>C:67% T:84%</b>	pCi/L	12/10/20 15:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.02 ± 0.977 (1.69)</b>	pCi/L	12/11/20 15:20	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 424221

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: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2050470

Matrix: Water

Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0473 ± 0.362 (0.762) C:NA T:91%	pCi/L	12/11/20 11:57	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

QC Batch: 424222

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: 50273286001, 50273286002, 50273286003, 50273286004

METHOD BLANK: 2050471

Matrix: Water

Associated Lab Samples: 50273286001, 50273286002, 50273286003, 50273286004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.434 ± 0.343 (0.678) C:70% T:96%	pCi/L	12/10/20 12:14	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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: Eagle Valley Profile 1 Report2

Pace Project No.: 50273286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273286001	MW-14S	EPA 9056	594885		
50273286002	MW-14I	EPA 9056	594885		
50273286003	MW-14D	EPA 9056	594885		
50273286004	Field Blank 2	EPA 9056	594885		
50273286001	MW-14S	EPA 3010	594274	EPA 6010	595526
50273286002	MW-14I	EPA 3010	594274	EPA 6010	595526
50273286003	MW-14D	EPA 3010	594274	EPA 6010	595526
50273286004	Field Blank 2	EPA 3010	594274	EPA 6010	595526
50273286001	MW-14S	EPA 200.2	593451	EPA 6020	593711
50273286002	MW-14I	EPA 200.2	593451	EPA 6020	593711
50273286003	MW-14D	EPA 200.2	593451	EPA 6020	593711
50273286004	Field Blank 2	EPA 200.2	593451	EPA 6020	593711
50273286004	Field Blank 2	EPA 200.2	594053	EPA 6020	594322
50273286001	MW-14S	EPA 903.1	424221		
50273286002	MW-14I	EPA 903.1	424221		
50273286003	MW-14D	EPA 903.1	424221		
50273286004	Field Blank 2	EPA 903.1	424221		
50273286001	MW-14S	EPA 904.0	424222		
50273286002	MW-14I	EPA 904.0	424222		
50273286003	MW-14D	EPA 904.0	424222		
50273286004	Field Blank 2	EPA 904.0	424222		
50273286001	MW-14S	Total Radium Calculation	426870		
50273286002	MW-14I	Total Radium Calculation	426870		
50273286003	MW-14D	Total Radium Calculation	426868		
50273286004	Field Blank 2	Total Radium Calculation	426868		
50273286001	MW-14S	SM 2540C	594041		
50273286002	MW-14I	SM 2540C	594041		
50273286003	MW-14D	SM 2540C	594041		
50273286004	Field Blank 2	SM 2540C	594041		
50273286001	MW-14S	SM 4500-H+B	593861		
50273286002	MW-14I	SM 4500-H+B	593861		
50273286003	MW-14D	SM 4500-H+B	593861		
50273286004	Field Blank 2	SM 4500-H+B	593861		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MN 11-13-20 1700

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: 2.2 / 2.1 C  
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"/>	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)			<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:  
 \_\_\_\_\_  
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### 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													MW 11-13-20	+	Z	I	I	I							WT
2															↓	↓	↓	↓							↓	✓		
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11															Z	I	I	I							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
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				

February 01, 2021

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

RE: Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50273934

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

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### 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

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### 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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273934001	MW-6S	Water	11/19/20 11:51	11/20/20 15:45
50273934002	MW-8S	Water	11/19/20 10:18	11/20/20 15:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273934001	MW-6S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	4	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
50273934002	MW-8S	EPA 9056	NPW	3	PASI-I
		EPA 6010	JDG	4	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

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50273934001</b>	<b>MW-6S</b>					
EPA 9056	Chloride	76.1	mg/L	2.5	12/11/20 23:11	
EPA 9056	Fluoride	0.26	mg/L	0.10	12/11/20 22:55	
EPA 9056	Sulfate	245	mg/L	2.5	12/11/20 23:11	
EPA 6010	Boron	4200	ug/L	100	12/11/20 12:02	
EPA 6010	Calcium	164000	ug/L	1000	12/11/20 12:02	
EPA 6010	Lithium	91.2	ug/L	20.0	12/11/20 12:02	
EPA 6010	Molybdenum	164	ug/L	10.0	12/11/20 12:02	
EPA 6020	Antimony	1.4	ug/L	1.0	12/01/20 12:12	
EPA 6020	Barium	115	ug/L	1.0	12/01/20 12:12	
EPA 6020	Selenium	9.7	ug/L	1.0	12/01/20 12:12	
EPA 903.1	Radium-226	0.533 ± 0.492 (0.717) C:NA T:92%	pCi/L		12/17/20 12:17	
EPA 904.0	Radium-228	0.231 ± 0.910 (2.04) C:75% T:69%	pCi/L		12/16/20 18:48	
Total Radium Calculation	Total Radium	0.764 ± 1.40 (2.76)	pCi/L		12/17/20 15:56	
SM 2540C	Total Dissolved Solids	848	mg/L	20.0	11/24/20 10:18	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	11/25/20 14:58	H3
<b>50273934002</b>	<b>MW-8S</b>					
EPA 9056	Chloride	291	mg/L	25.0	12/12/20 00:01	
EPA 9056	Fluoride	0.30	mg/L	0.10	12/11/20 23:45	
EPA 9056	Sulfate	781	mg/L	25.0	12/12/20 00:01	
EPA 6010	Boron	2380	ug/L	100	12/11/20 12:04	
EPA 6010	Calcium	255000	ug/L	2000	12/11/20 13:09	
EPA 6010	Lithium	64.0	ug/L	20.0	12/11/20 12:04	
EPA 6010	Molybdenum	95.7	ug/L	10.0	12/11/20 12:04	
EPA 6020	Arsenic	4.2	ug/L	1.0	12/02/20 01:39	
EPA 6020	Barium	164	ug/L	2.0	12/02/20 00:57	
EPA 903.1	Radium-226	0.000 ± 0.346 (0.775) C:NA T:84%	pCi/L		12/17/20 12:17	
EPA 904.0	Radium-228	0.629 ± 0.758 (1.61) C:80% T:76%	pCi/L		12/16/20 18:48	
Total Radium Calculation	Total Radium	0.629 ± 1.10 (2.39)	pCi/L		12/17/20 15:56	
SM 2540C	Total Dissolved Solids	1810	mg/L	40.0	11/24/20 10:19	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/25/20 15:02	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

Sample: MW-6S	Lab ID: 50273934001	Collected: 11/19/20 11:51	Received: 11/20/20 15:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	76.1	mg/L	2.5	10		12/11/20 23:11	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		12/11/20 22:55	16984-48-8	
Sulfate	245	mg/L	2.5	10		12/11/20 23:11	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	4200	ug/L	100	1	12/08/20 14:12	12/11/20 12:02	7440-42-8	
Calcium	164000	ug/L	1000	1	12/08/20 14:12	12/11/20 12:02	7440-70-2	
Lithium	91.2	ug/L	20.0	1	12/08/20 14:12	12/11/20 12:02	7439-93-2	
Molybdenum	164	ug/L	10.0	1	12/08/20 14:12	12/11/20 12:02	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.4	ug/L	1.0	1	11/25/20 19:03	12/01/20 12:12	7440-36-0	
Arsenic	ND	ug/L	1.0	1	11/25/20 19:03	12/01/20 12:12	7440-38-2	
Barium	115	ug/L	1.0	1	11/25/20 19:03	12/01/20 12:12	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/25/20 19:03	12/02/20 03:23	7440-48-4	
Selenium	9.7	ug/L	1.0	1	11/25/20 19:03	12/01/20 12:12	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	848	mg/L	20.0	1		11/24/20 10:18		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		11/25/20 14:58		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-8S</b>								
<b>Lab ID: 50273934002</b>								
Collected: 11/19/20 10:18								
Received: 11/20/20 15:45								
Matrix: Water								
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	<b>291</b>	mg/L	25.0	100		12/12/20 00:01	16887-00-6	
Fluoride	<b>0.30</b>	mg/L	0.10	1		12/11/20 23:45	16984-48-8	
Sulfate	<b>781</b>	mg/L	25.0	100		12/12/20 00:01	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Boron	<b>2380</b>	ug/L	100	1	12/08/20 14:12	12/11/20 12:04	7440-42-8	
Calcium	<b>255000</b>	ug/L	2000	2	12/08/20 14:12	12/11/20 13:09	7440-70-2	
Lithium	<b>64.0</b>	ug/L	20.0	1	12/08/20 14:12	12/11/20 12:04	7439-93-2	
Molybdenum	<b>95.7</b>	ug/L	10.0	1	12/08/20 14:12	12/11/20 12:04	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	11/25/20 19:03	12/01/20 12:26	7440-36-0	
Arsenic	<b>4.2</b>	ug/L	1.0	1	11/25/20 19:03	12/02/20 01:39	7440-38-2	
Barium	<b>164</b>	ug/L	2.0	2	11/25/20 19:03	12/02/20 00:57	7440-39-3	
Cobalt	ND	ug/L	1.0	1	11/25/20 19:03	12/02/20 01:39	7440-48-4	
Selenium	ND	ug/L	1.0	1	11/25/20 19:03	12/02/20 01:39	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	<b>1810</b>	mg/L	40.0	1		11/24/20 10:19		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>7.4</b>	Std. Units	0.10	1		11/25/20 15:02		H3

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

QC Batch: 597601

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273934001, 50273934002

METHOD BLANK: 2756900

Matrix: Water

Associated Lab Samples: 50273934001, 50273934002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/11/20 22:20	
Fluoride	mg/L	ND	0.10	12/11/20 22:20	
Sulfate	mg/L	ND	0.25	12/11/20 22:20	

LABORATORY CONTROL SAMPLE: 2756901

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	0.48	95	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2756902 2756903

Parameter	Units	50275251007		2756902		2756903		% 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	12.5	12.5	25	25	36.5	36.5	96	96	80-120	0	15	
Fluoride	mg/L	0.18	0.18	0.5	0.5	0.66	0.67	96	97	80-120	1	15	
Sulfate	mg/L	154	154	50	50	199	199	90	91	80-120	0	15	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50273934

QC Batch: 596315	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273934001, 50273934002

METHOD BLANK: 2750234 Matrix: Water

Associated Lab Samples: 50273934001, 50273934002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	12/11/20 11:57	
Calcium	ug/L	ND	1000	12/11/20 11:57	
Lithium	ug/L	ND	20.0	12/11/20 11:57	
Molybdenum	ug/L	ND	10.0	12/11/20 11:57	

LABORATORY CONTROL SAMPLE: 2750235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	1040	104	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Lithium	ug/L	1000	1050	105	80-120	
Molybdenum	ug/L	1000	1080	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2750236 2750237

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273146003 Result	Spike Conc.	Spike Conc.	Result						
Boron	ug/L	2600	1000	1000	3690	3640	109	105	75-125	1	20
Calcium	ug/L	9070	10000	10000	19100	18900	100	98	75-125	1	20
Lithium	ug/L	45.3	1000	1000	1040	1020	99	97	75-125	2	20
Molybdenum	ug/L	33.6	1000	1000	1090	1070	105	104	75-125	2	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

QC Batch: 595193	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273934001, 50273934002

METHOD BLANK: 2745749 Matrix: Water

Associated Lab Samples: 50273934001, 50273934002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	12/01/20 10:11	
Arsenic	ug/L	ND	1.0	12/01/20 10:11	
Barium	ug/L	ND	1.0	12/01/20 10:11	
Cobalt	ug/L	ND	1.0	12/01/20 10:11	
Selenium	ug/L	ND	1.0	12/01/20 10:11	

LABORATORY CONTROL SAMPLE: 2745750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.7	99	80-120	
Arsenic	ug/L	40	38.7	97	80-120	
Barium	ug/L	40	37.7	94	80-120	
Cobalt	ug/L	40	38.7	97	80-120	
Selenium	ug/L	40	38.5	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745751 2745752

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50273934002	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	38.7	39.8	96	99	75-125	3	20
Arsenic	ug/L	4.2	40	40	42.2	42.0	95	94	75-125	1	20
Barium	ug/L	164	40	40	216	218	129	134	75-125	1	20 P6
Cobalt	ug/L	ND	40	40	40.6	37.9	99	93	75-125	7	20
Selenium	ug/L	ND	40	40	39.3	39.6	97	98	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50273934

QC Batch: 594946      Analysis Method: SM 2540C  
QC Batch Method: SM 2540C      Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273934001, 50273934002

METHOD BLANK: 2744685      Matrix: Water  
Associated Lab Samples: 50273934001, 50273934002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/24/20 10:16	

LABORATORY CONTROL SAMPLE: 2744686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 2744687

Parameter	Units	50273930011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2610	2660	2	10	

SAMPLE DUPLICATE: 2744688

Parameter	Units	50273938002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		784			

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

QC Batch: 595318

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: 50273934001, 50273934002

SAMPLE DUPLICATE: 2746365

Parameter	Units	50273934001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 2746366

Parameter	Units	50273913007 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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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

**Sample: MW-6S**      **Lab ID: 50273934001**      Collected: 11/19/20 11:51      Received: 11/20/20 15:45      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	<b>0.533 ± 0.492 (0.717)</b> <b>C:NA T:92%</b>	pCi/L	12/17/20 12:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.231 ± 0.910 (2.04)</b> <b>C:75% T:69%</b>	pCi/L	12/16/20 18:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.764 ± 1.40 (2.76)</b>	pCi/L	12/17/20 15:56	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

**Sample: MW-8S**      **Lab ID: 50273934002**      Collected: 11/19/20 10:18      Received: 11/20/20 15:45      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	<b>0.000 ± 0.346 (0.775)</b> <b>C:NA T:84%</b>	pCi/L	12/17/20 12:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.629 ± 0.758 (1.61)</b> <b>C:80% T:76%</b>	pCi/L	12/16/20 18:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.629 ± 1.10 (2.39)</b>	pCi/L	12/17/20 15:56	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

QC Batch: 425323

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: 50273934001, 50273934002

METHOD BLANK: 2055320

Matrix: Water

Associated Lab Samples: 50273934001, 50273934002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.219 ± 0.264 (0.719) C:NA T:87%	pCi/L	12/17/20 12:04	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

QC Batch: 425324

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: 50273934001, 50273934002

METHOD BLANK: 2055322

Matrix: Water

Associated Lab Samples: 50273934001, 50273934002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.203 ± 0.343 (0.746) C:81% T:96%	pCi/L	12/16/20 15:41	

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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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: Eagle Valley Profile 1 Report1

Pace Project No.: 50273934

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273934001	MW-6S	EPA 9056	597601		
50273934002	MW-8S	EPA 9056	597601		
50273934001	MW-6S	EPA 3010	596315	EPA 6010	597360
50273934002	MW-8S	EPA 3010	596315	EPA 6010	597360
50273934001	MW-6S	EPA 200.2	595193	EPA 6020	595406
50273934002	MW-8S	EPA 200.2	595193	EPA 6020	595406
50273934001	MW-6S	EPA 903.1	425323		
50273934002	MW-8S	EPA 903.1	425323		
50273934001	MW-6S	EPA 904.0	425324		
50273934002	MW-8S	EPA 904.0	425324		
50273934001	MW-6S	Total Radium Calculation	427703		
50273934002	MW-8S	Total Radium Calculation	427703		
50273934001	MW-6S	SM 2540C	594946		
50273934002	MW-8S	SM 2540C	594946		
50273934001	MW-6S	SM 4500-H+B	595318		
50273934002	MW-8S	SM 4500-H+B	595318		

### REPORT OF LABORATORY ANALYSIS

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**May 2021**

July 27, 2021

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

RE: Project: Eagle Valley P1R2  
Pace Project No.: 50287175

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 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: Eagle Valley P1R2

Pace Project No.: 50287175

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287175001	MW-15S	Water	05/11/21 14:22	05/11/21 15:47
50287175002	MW-16S	Water	05/11/21 10:31	05/11/21 15:47
50287175003	MW-16I	Water	05/11/21 11:55	05/11/21 15:47
50287175004	MW-16D	Water	05/11/21 13:02	05/11/21 15:47
50287175005	MW-16D MS	Water	05/11/21 13:02	05/11/21 15:47
50287175006	MW-16D MSD	Water	05/11/21 13:02	05/11/21 15:47

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287175001	MW-15S	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	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	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	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
		50287175002	MW-16S	EPA 9056	RMR
EPA 6010	JDG			12	PASI-I
EPA 6010	JPK			2	PASI-I
EPA 6020	RAM			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	WDB			1	PASI-I
SM 4500-S2-D	SWJ			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
50287175003	MW-16I			EPA 9056	RMR
		EPA 6010	JDG	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	4	PASI-I
		EPA 903.1	MK1	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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	SWJ	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
50287175004	MW-16D	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	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	WDB	1	PASI-I
		SM 4500-S2-D	SWJ	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
50287175005	MW-16D MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50287175006	MW-16D 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: Eagle Valley P1R2

Pace Project No.: 50287175

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287175001</b>	<b>MW-15S</b>					
EPA 9056	Chloride	63.4	mg/L	2.5	05/24/21 04:46	
EPA 9056	Fluoride	0.20	mg/L	0.10	05/24/21 04:30	
EPA 9056	Sulfate	115	mg/L	2.5	05/24/21 04:46	
EPA 6010	Barium	85.4	ug/L	10.0	05/21/21 09:03	
EPA 6010	Boron	3710	ug/L	100	05/21/21 09:03	
EPA 6010	Calcium	112000	ug/L	1000	05/21/21 09:03	
EPA 6010	Iron	331	ug/L	100	05/21/21 09:03	
EPA 6010	Lithium	53.1	ug/L	20.0	05/21/21 09:03	
EPA 6010	Magnesium	26400	ug/L	1000	05/21/21 09:03	
EPA 6010	Manganese	34.9	ug/L	10.0	05/21/21 09:03	
EPA 6010	Molybdenum	77.5	ug/L	10.0	05/21/21 09:03	
EPA 6010	Potassium	8060	ug/L	1000	05/21/21 09:03	
EPA 6010	Silica	12300	ug/L	450	05/21/21 09:03	N2
EPA 6010	Sodium	57900	ug/L	1000	05/21/21 09:03	
EPA 6010	Molybdenum, Dissolved	76.1	ug/L	10.0	05/19/21 01:25	
EPA 6020	Selenium	5.4	ug/L	1.0	05/17/21 23:01	
EPA 903.1	Radium-226	0.000 ± 0.239 (0.385)	pCi/L		06/17/21 13:18	
EPA 904.0	Radium-228	C:NA T:95% 0.517 ± 0.406 (0.806)	pCi/L		06/15/21 15:01	
		C:71% T:88%				
Total Radium Calculation	Total Radium	0.517 ± 0.645 (1.19)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	280	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	280	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	565	mg/L	10.0	05/14/21 09:38	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/14/21 13:42	H3
EPA 353.2	Nitrogen, Nitrate	3.9	mg/L	0.10	05/13/21 08:24	
<b>50287175002</b>	<b>MW-16S</b>					
EPA 9056	Chloride	113	mg/L	2.5	05/24/21 05:19	
EPA 9056	Fluoride	0.14	mg/L	0.10	05/24/21 05:03	
EPA 9056	Sulfate	124	mg/L	2.5	05/24/21 05:19	
EPA 6010	Aluminum	418	ug/L	200	05/21/21 09:05	
EPA 6010	Barium	91.8	ug/L	10.0	05/21/21 09:05	
EPA 6010	Boron	509	ug/L	100	05/21/21 09:05	
EPA 6010	Calcium	108000	ug/L	1000	05/21/21 09:05	
EPA 6010	Iron	661	ug/L	100	05/21/21 09:05	
EPA 6010	Lithium	58.5	ug/L	20.0	05/21/21 09:05	
EPA 6010	Magnesium	27800	ug/L	1000	05/21/21 09:05	
EPA 6010	Manganese	360	ug/L	10.0	05/21/21 09:05	
EPA 6010	Molybdenum	42.5	ug/L	10.0	05/21/21 09:05	
EPA 6010	Potassium	8280	ug/L	1000	05/21/21 09:05	
EPA 6010	Silica	14000	ug/L	450	05/21/21 09:05	N2
EPA 6010	Sodium	73800	ug/L	1000	05/21/21 09:05	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287175002</b>	<b>MW-16S</b>					
EPA 6010	Manganese, Dissolved	279	ug/L	10.0	05/19/21 01:27	
EPA 6010	Molybdenum, Dissolved	41.1	ug/L	10.0	05/19/21 01:27	
EPA 903.1	Radium-226	0.0529 ± 0.274 (0.569)	pCi/L		06/17/21 13:05	
EPA 904.0	Radium-228	C:NA T:97% 0.549 ± 0.488 (0.982)	pCi/L		06/15/21 17:26	
		C:73% T:83%				
Total Radium Calculation	Total Radium	0.602 ± 0.762 (1.55)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	255	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	255	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	617	mg/L	10.0	05/14/21 09:39	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/14/21 13:12	H3
EPA 353.2	Nitrogen, Nitrate	0.99	mg/L	0.10	05/13/21 07:56	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	05/20/21 16:00	
<b>50287175003</b>	<b>MW-16I</b>					
EPA 9056	Chloride	103	mg/L	2.5	05/24/21 05:52	
EPA 9056	Fluoride	0.22	mg/L	0.10	05/24/21 05:35	
EPA 9056	Sulfate	81.6	mg/L	2.5	05/24/21 05:52	
EPA 6010	Aluminum	245	ug/L	200	05/21/21 09:07	
EPA 6010	Barium	70.9	ug/L	10.0	05/21/21 09:07	
EPA 6010	Boron	385	ug/L	100	05/21/21 09:07	
EPA 6010	Calcium	71600	ug/L	1000	05/21/21 09:07	
EPA 6010	Iron	500	ug/L	100	05/21/21 09:07	
EPA 6010	Lithium	75.9	ug/L	20.0	05/21/21 09:07	
EPA 6010	Magnesium	24000	ug/L	1000	05/21/21 09:07	
EPA 6010	Manganese	95.9	ug/L	10.0	05/21/21 09:07	
EPA 6010	Molybdenum	99.0	ug/L	10.0	05/21/21 09:07	
EPA 6010	Potassium	7950	ug/L	1000	05/21/21 09:07	
EPA 6010	Silica	11200	ug/L	450	05/21/21 09:07	N2
EPA 6010	Sodium	78100	ug/L	1000	05/21/21 09:07	
EPA 6010	Manganese, Dissolved	88.9	ug/L	10.0	05/19/21 01:29	
EPA 6010	Molybdenum, Dissolved	98.1	ug/L	10.0	05/19/21 01:29	
EPA 903.1	Radium-226	0.422 ± 0.593 (1.00) C:NA	pCi/L		06/17/21 13:05	
EPA 904.0	Radium-228	T:91% 0.404 ± 0.507 (1.08)	pCi/L		06/15/21 17:27	
		C:72% T:89%				
Total Radium Calculation	Total Radium	0.826 ± 1.10 (2.08)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	218	mg/L	2.0	05/13/21 20:05	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287175003</b>	<b>MW-16I</b>					
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	218	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	502	mg/L	10.0	05/14/21 09:39	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/14/21 13:21	H3
<b>50287175004</b>	<b>MW-16D</b>					
EPA 9056	Chloride	104	mg/L	2.5	05/24/21 06:57	
EPA 9056	Fluoride	0.24	mg/L	0.10	05/24/21 06:41	
EPA 9056	Sulfate	83.2	mg/L	2.5	05/24/21 06:57	
EPA 6010	Barium	73.7	ug/L	10.0	05/21/21 09:09	
EPA 6010	Boron	279	ug/L	100	05/21/21 09:09	
EPA 6010	Calcium	85000	ug/L	1000	05/21/21 09:09	
EPA 6010	Iron	1340	ug/L	100	05/21/21 09:09	
EPA 6010	Lithium	67.6	ug/L	20.0	05/21/21 09:09	
EPA 6010	Magnesium	20400	ug/L	1000	05/21/21 09:09	
EPA 6010	Manganese	186	ug/L	10.0	05/21/21 09:09	
EPA 6010	Molybdenum	71.6	ug/L	10.0	05/21/21 09:09	
EPA 6010	Potassium	8910	ug/L	1000	05/21/21 09:09	
EPA 6010	Silica	10900	ug/L	450	05/21/21 09:09	N2
EPA 6010	Sodium	68000	ug/L	1000	05/21/21 09:09	
EPA 6010	Manganese, Dissolved	177	ug/L	10.0	05/19/21 01:31	
EPA 6010	Molybdenum, Dissolved	69.8	ug/L	10.0	05/19/21 01:31	
EPA 6020	Arsenic	4.4	ug/L	1.0	05/17/21 22:05	
EPA 903.1	Radium-226	0.128 ± 0.252 (0.461) C:NA T:100%	pCi/L		06/17/21 13:18	
EPA 904.0	Radium-228	1.22 ± 0.664 (1.22) C:73% T:87%	pCi/L		06/15/21 17:36	
Total Radium Calculation	Total Radium	1.35 ± 0.916 (1.68)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	209	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	209	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	538	mg/L	10.0	05/14/21 09:41	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/14/21 13:33	H3
<b>50287175005</b>	<b>MW-16D MS</b>					
EPA 903.1	Radium-226	77.92 %REC ± NA (NA) C:NA T:NA	pCi/L		06/17/21 13:29	
EPA 904.0	Radium-228	91.63 %REC ± NA (NA) C:NA T:NA	pCi/L		06/15/21 17:37	

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287175006</b>	<b>MW-16D MSD</b>					
EPA 903.1	Radium-226	88.36 %REC 12.56 RPD ± NA (NA) C:NA T:NA	pCi/L		06/17/21 13:18	
EPA 904.0	Radium-228	93.38 %REC 1.90 RPD ± NA (NA) C:NA T:NA	pCi/L		06/15/21 15:00	

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-15S	Lab ID: 50287175001	Collected: 05/11/21 14:22	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	63.4	mg/L	2.5	10		05/24/21 04:46	16887-00-6	
Fluoride	0.20	mg/L	0.10	1		05/24/21 04:30	16984-48-8	
Sulfate	115	mg/L	2.5	10		05/24/21 04:46	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:03	7429-90-5	
Barium	85.4	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:03	7440-39-3	
Boron	3710	ug/L	100	1	05/19/21 06:46	05/21/21 09:03	7440-42-8	
Calcium	112000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:03	7440-70-2	
Iron	331	ug/L	100	1	05/19/21 06:46	05/21/21 09:03	7439-89-6	
Lithium	53.1	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:03	7439-93-2	
Magnesium	26400	ug/L	1000	1	05/19/21 06:46	05/21/21 09:03	7439-95-4	
Manganese	34.9	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:03	7439-96-5	
Molybdenum	77.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:03	7439-98-7	
Potassium	8060	ug/L	1000	1	05/19/21 06:46	05/21/21 09:03	7440-09-7	
Silica	12300	ug/L	450	1	05/19/21 06:46	05/21/21 09:03	7631-86-9	N2
Sodium	57900	ug/L	1000	1	05/19/21 06:46	05/21/21 09:03	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:25	7439-96-5	
Molybdenum, Dissolved	76.1	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:25	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:01	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:01	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:01	7440-48-4	
Selenium	5.4	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:01	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	280	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	280	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	565	mg/L	10.0	1		05/14/21 09:38		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/14/21 13:42		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-15S	Lab ID: 50287175001	Collected: 05/11/21 14:22	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:11		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	3.9	mg/L	0.10	1		05/13/21 08:24	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:24	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 15:57		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 19:33	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/20/21 14:58		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16S	Lab ID: 50287175002	Collected: 05/11/21 10:31	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	113	mg/L	2.5	10		05/24/21 05:19	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		05/24/21 05:03	16984-48-8	
Sulfate	124	mg/L	2.5	10		05/24/21 05:19	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	418	ug/L	200	1	05/19/21 06:46	05/21/21 09:05	7429-90-5	
Barium	91.8	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:05	7440-39-3	
Boron	509	ug/L	100	1	05/19/21 06:46	05/21/21 09:05	7440-42-8	
Calcium	108000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:05	7440-70-2	
Iron	661	ug/L	100	1	05/19/21 06:46	05/21/21 09:05	7439-89-6	
Lithium	58.5	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:05	7439-93-2	
Magnesium	27800	ug/L	1000	1	05/19/21 06:46	05/21/21 09:05	7439-95-4	
Manganese	360	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:05	7439-96-5	
Molybdenum	42.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:05	7439-98-7	
Potassium	8280	ug/L	1000	1	05/19/21 06:46	05/21/21 09:05	7440-09-7	
Silica	14000	ug/L	450	1	05/19/21 06:46	05/21/21 09:05	7631-86-9	N2
Sodium	73800	ug/L	1000	1	05/19/21 06:46	05/21/21 09:05	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	279	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:27	7439-96-5	
Molybdenum, Dissolved	41.1	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:27	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:06	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:06	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:06	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:06	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	255	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	255	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	617	mg/L	10.0	1		05/14/21 09:39		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/14/21 13:12		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16S	Lab ID: 50287175002	Collected: 05/11/21 10:31	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:11		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	<b>0.99</b>	mg/L	0.10	1		05/13/21 07:56	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 07:56	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 15:58		
<b>5310C TOC</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 19:44	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	<b>1.0</b>	mg/L	1.0	1		05/20/21 16:00		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16I	Lab ID: 50287175003	Collected: 05/11/21 11:55	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	103	mg/L	2.5	10		05/24/21 05:52	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		05/24/21 05:35	16984-48-8	
Sulfate	81.6	mg/L	2.5	10		05/24/21 05:52	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	245	ug/L	200	1	05/19/21 06:46	05/21/21 09:07	7429-90-5	
Barium	70.9	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:07	7440-39-3	
Boron	385	ug/L	100	1	05/19/21 06:46	05/21/21 09:07	7440-42-8	
Calcium	71600	ug/L	1000	1	05/19/21 06:46	05/21/21 09:07	7440-70-2	
Iron	500	ug/L	100	1	05/19/21 06:46	05/21/21 09:07	7439-89-6	
Lithium	75.9	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:07	7439-93-2	
Magnesium	24000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:07	7439-95-4	
Manganese	95.9	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:07	7439-96-5	
Molybdenum	99.0	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:07	7439-98-7	
Potassium	7950	ug/L	1000	1	05/19/21 06:46	05/21/21 09:07	7440-09-7	
Silica	11200	ug/L	450	1	05/19/21 06:46	05/21/21 09:07	7631-86-9	N2
Sodium	78100	ug/L	1000	1	05/19/21 06:46	05/21/21 09:07	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	88.9	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:29	7439-96-5	
Molybdenum, Dissolved	98.1	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:29	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:10	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:10	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:10	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 23:10	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	218	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	218	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	502	mg/L	10.0	1		05/14/21 09:39		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/14/21 13:21		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16I	Lab ID: 50287175003	Collected: 05/11/21 11:55	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:12		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:05	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:05	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 15:58		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 19:54	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/20/21 16:26		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16D	Lab ID: 50287175004	Collected: 05/11/21 13:02	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	104	mg/L	2.5	10		05/24/21 06:57	16887-00-6	
Fluoride	0.24	mg/L	0.10	1		05/24/21 06:41	16984-48-8	
Sulfate	83.2	mg/L	2.5	10		05/24/21 06:57	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:09	7429-90-5	
Barium	73.7	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:09	7440-39-3	
Boron	279	ug/L	100	1	05/19/21 06:46	05/21/21 09:09	7440-42-8	
Calcium	85000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:09	7440-70-2	
Iron	1340	ug/L	100	1	05/19/21 06:46	05/21/21 09:09	7439-89-6	
Lithium	67.6	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:09	7439-93-2	
Magnesium	20400	ug/L	1000	1	05/19/21 06:46	05/21/21 09:09	7439-95-4	
Manganese	186	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:09	7439-96-5	
Molybdenum	71.6	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:09	7439-98-7	
Potassium	8910	ug/L	1000	1	05/19/21 06:46	05/21/21 09:09	7440-09-7	
Silica	10900	ug/L	450	1	05/19/21 06:46	05/21/21 09:09	7631-86-9	N2
Sodium	68000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:09	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	177	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:31	7439-96-5	
Molybdenum, Dissolved	69.8	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:31	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 22:05	7440-36-0	
Arsenic	4.4	ug/L	1.0	1	05/14/21 12:25	05/17/21 22:05	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 22:05	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/14/21 12:25	05/17/21 22:05	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	209	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	209	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	538	mg/L	10.0	1		05/14/21 09:41		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/14/21 13:33		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Sample: MW-16D	Lab ID: 50287175004	Collected: 05/11/21 13:02	Received: 05/11/21 15:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:12		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:16	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:16	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 15:59		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 20:05	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/24/21 11:36		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 622300

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2868169

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/23/21 18:36	
Fluoride	mg/L	ND	0.10	05/23/21 18:36	
Sulfate	mg/L	ND	0.25	05/23/21 18:36	

LABORATORY CONTROL SAMPLE: 2868170

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	0.51	103	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868171 2868172

Parameter	Units	50287175004		2868171		2868172		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	104	12.5	12.5	119	119	123	119	119	80-120	0	15	M0
Fluoride	mg/L	0.24	0.5	0.5	0.78	0.80	110	114	114	80-120	2	15	
Sulfate	mg/L	83.2	25	25	108	108	99	100	100	80-120	0	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 621103

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2862602

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/21/21 08:29	
Barium	ug/L	ND	10.0	05/21/21 08:29	
Boron	ug/L	ND	100	05/21/21 08:29	
Calcium	ug/L	ND	1000	05/21/21 08:29	
Iron	ug/L	ND	100	05/21/21 08:29	
Lithium	ug/L	ND	20.0	05/21/21 08:29	
Magnesium	ug/L	ND	1000	05/21/21 08:29	
Manganese	ug/L	ND	10.0	05/21/21 08:29	
Molybdenum	ug/L	ND	10.0	05/21/21 08:29	
Potassium	ug/L	ND	1000	05/21/21 08:29	
Silica	ug/L	ND	450	05/21/21 08:29	N2
Sodium	ug/L	ND	1000	05/21/21 08:29	

LABORATORY CONTROL SAMPLE: 2862603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10400	104	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lithium	ug/L	1000	997	100	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	
Potassium	ug/L	10000	10400	104	80-120	
Silica	ug/L	10700	9960	93		N2
Sodium	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862604 2862605

Parameter	Units	2862604		2862605		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287175004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Aluminum	ug/L	ND	10000	10000	10600	10600	105	105	75-125	0	20
Barium	ug/L	73.7	1000	1000	1080	1080	101	101	75-125	0	20
Boron	ug/L	279	1000	1000	1310	1310	103	103	75-125	0	20
Calcium	ug/L	85000	10000	10000	95300	93000	103	80	75-125	2	20

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862604		2862605		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287175004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Iron	ug/L	1340	10000	10000	11300	11300	100	99	75-125	0	20		
Lithium	ug/L	67.6	1000	1000	1120	1120	105	105	75-125	0	20		
Magnesium	ug/L	20400	10000	10000	30400	29700	101	94	75-125	2	20		
Manganese	ug/L	186	1000	1000	1170	1170	98	98	75-125	0	20		
Molybdenum	ug/L	71.6	1000	1000	1110	1110	104	104	75-125	0	20		
Potassium	ug/L	8910	10000	10000	19600	19400	107	105	75-125	1	20		
Silica	ug/L	10900	10700	10700	21200	21300	96	97		0		N2	
Sodium	ug/L	68000	10000	10000	78700	76600	108	86	75-125	3	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch:	621081	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2862524 Matrix: Water  
Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/19/21 01:08	
Molybdenum, Dissolved	ug/L	ND	10.0	05/19/21 01:08	

LABORATORY CONTROL SAMPLE: 2862525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	963	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862526 2862527

Parameter	Units	50287175004 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	177	1000	1000	1140	1150	96	97	75-125	1	20	
Molybdenum, Dissolved	ug/L	69.8	1000	1000	1090	1110	102	104	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862528 2862529

Parameter	Units	50287101020 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	120	1000	1000	1070	1060	95	94	75-125	0	20	
Molybdenum, Dissolved	ug/L	13.1	1000	1000	1030	1030	101	101	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch:	620693	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2860670 Matrix: Water  
Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/18/21 13:27	
Arsenic	ug/L	ND	1.0	05/18/21 13:27	
Cobalt	ug/L	ND	1.0	05/18/21 13:27	
Selenium	ug/L	ND	1.0	05/18/21 13:27	

LABORATORY CONTROL SAMPLE: 2860671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.4	106	80-120	
Arsenic	ug/L	40	39.1	98	80-120	
Cobalt	ug/L	40	42.1	105	80-120	
Selenium	ug/L	40	40.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860708 2860709

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287175004 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	37.7	36.6	94	91	75-125	3	20
Arsenic	ug/L	4.4	40	40	38.9	37.6	86	83	75-125	3	20
Cobalt	ug/L	ND	40	40	34.7	33.8	87	84	75-125	3	20
Selenium	ug/L	ND	40	40	34.3	35.6	85	89	75-125	4	20

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch:	620589	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2859803 Matrix: Water  
Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/13/21 20:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/13/21 20:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/13/21 20:05	

LABORATORY CONTROL SAMPLE: 2859804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	90-110	

SAMPLE DUPLICATE: 2859805

Parameter	Units	50287175004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	209	215	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	209	215	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2859806

Parameter	Units	50287186001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	337	341	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	337	341	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 620736

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2860811

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/14/21 09:32	

LABORATORY CONTROL SAMPLE: 2860812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 2860813

Parameter	Units	50287175004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	538	518	4	10	

SAMPLE DUPLICATE: 2860814

Parameter	Units	50287193003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	750	800	6	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

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QC Batch:	620752	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: 50287175001, 50287175002, 50287175003, 50287175004

SAMPLE DUPLICATE: 2860881

Parameter	Units	50287193003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2860882

Parameter	Units	50287175004 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: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 620459

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: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2859274

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/13/21 09:45	

LABORATORY CONTROL SAMPLE: 2859275

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: 2859276 2859277

Parameter	Units	50287175004		2859277		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.5	0.46	0.46	91	91	90-110	0	20

MATRIX SPIKE SAMPLE: 2859278

Parameter	Units	50287226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.38	73	90-110	M0

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 620728

Analysis Method: HACH 8146

QC Batch Method: HACH 8146

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2860776

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:11	H3,N2

LABORATORY CONTROL SAMPLE: 2860777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	103	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860778 2860779

Parameter	Units	50287175004		2860779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	106	106	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2860780

Parameter	Units	50287176003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	0.20	1	1.2	98	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch:	620452	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: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2859241 Matrix: Water  
Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/13/21 07:50	
Nitrogen, Nitrite	mg/L	ND	0.10	05/13/21 07:50	

LABORATORY CONTROL SAMPLE: 2859242

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	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859243 2859244

Parameter	Units	50287175004		2859244		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	107	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	108	111	90-110	2	20 MO

MATRIX SPIKE SAMPLE: 2859245

Parameter	Units	50287228002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		0.22	1	0.98	76	90-110
Nitrogen, Nitrite	mg/L		ND	1	0.96	95	90-110

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch:	621763	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: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2865257 Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/20/21 15:55	

LABORATORY CONTROL SAMPLE: 2865258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865259 2865260

Parameter	Units	50287175004 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	1.6				2		

MATRIX SPIKE SAMPLE: 2865261

Parameter	Units	50287212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.22		1.6			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2  
Pace Project No.: 50287175

QC Batch: 621320      Analysis Method: SM 5310C  
QC Batch Method: SM 5310C      Analysis Description: 5310C Total Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

METHOD BLANK: 2863341      Matrix: Water  
Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/19/21 18:23	

LABORATORY CONTROL SAMPLE: 2863342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863343      2863344

Parameter	Units	50287175004		2863344		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.							
Total Organic Carbon	mg/L	ND	10	10	9.8	10	98	100	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863345      2863346

Parameter	Units	50287186001		2863346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.							
Total Organic Carbon	mg/L	11.6	20	20	31.2	32.5	98	105	80-120	4	20	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 621630

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175001, 50287175002, 50287175003

METHOD BLANK: 2864694

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/20/21 04:20	

LABORATORY CONTROL SAMPLE: 2864695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2864696 2864697

Parameter	Units	50287126005 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	9.4	9.5	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 2864698

Parameter	Units	50287134004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	9.9	97	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2  
Pace Project No.: 50287175

QC Batch: 622388	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287175004

METHOD BLANK: 2868396 Matrix: Water

Associated Lab Samples: 50287175004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/24/21 10:51	

LABORATORY CONTROL SAMPLE: 2868397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868398 2868399

Parameter	Units	50287175004		2868398		2868399		% 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	9.7	9.6	97	96	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868400 2868401

Parameter	Units	50287193003		2868400		2868401		% 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	9.5	9.4	95	94	80-120	1	20	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

**Sample: MW-15S**      **Lab ID: 50287175001**      Collected: 05/11/21 14:22      Received: 05/11/21 15:47      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	<b>0.000 ± 0.239 (0.385)</b> <b>C:NA T:95%</b>	pCi/L	06/17/21 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.517 ± 0.406 (0.806)</b> <b>C:71% T:88%</b>	pCi/L	06/15/21 15:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.517 ± 0.645 (1.19)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

**Sample: MW-16S**      **Lab ID: 50287175002**      Collected: 05/11/21 10:31      Received: 05/11/21 15:47      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	<b>0.0529 ± 0.274 (0.569)</b> <b>C:NA T:97%</b>	pCi/L	06/17/21 13:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.549 ± 0.488 (0.982)</b> <b>C:73% T:83%</b>	pCi/L	06/15/21 17:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.602 ± 0.762 (1.55)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

**Sample: MW-161**      **Lab ID: 50287175003**      Collected: 05/11/21 11:55      Received: 05/11/21 15:47      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	<b>0.422 ± 0.593 (1.00)</b> <b>C:NA T:91%</b>	pCi/L	06/17/21 13:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.404 ± 0.507 (1.08)</b> <b>C:72% T:89%</b>	pCi/L	06/15/21 17:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.826 ± 1.10 (2.08)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

**Sample: MW-16D**      **Lab ID: 50287175004**      Collected: 05/11/21 13:02      Received: 05/11/21 15:47      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	<b>0.128 ± 0.252 (0.461)</b> <b>C:NA T:100%</b>	pCi/L	06/17/21 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.22 ± 0.664 (1.22)</b> <b>C:73% T:87%</b>	pCi/L	06/15/21 17:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.35 ± 0.916 (1.68)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

**Sample: MW-16D MS**      **Lab ID: 50287175005**      Collected: 05/11/21 13:02      Received: 05/11/21 15:47      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	<b>77.92 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/17/21 13:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>91.63 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/15/21 17:37	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

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**Sample: MW-16D MSD**      **Lab ID: 50287175006**      Collected: 05/11/21 13:02      Received: 05/11/21 15:47      Matrix: Water  
PWS:      Site ID:      Sample Type:

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Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>88.36 %REC 12.56 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/17/21 13:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>93.38 %REC 1.90 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/15/21 15:00	15262-20-1	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 449558

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: 50287175001, 50287175002, 50287175003, 50287175004, 50287175005, 50287175006

METHOD BLANK: 2169407

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004, 50287175005, 50287175006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0862 ± 0.267 (0.608) C:NA T:99%	pCi/L	06/17/21 13:05	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287175

QC Batch: 449559

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: 50287175001, 50287175002, 50287175003, 50287175004, 50287175005, 50287175006

METHOD BLANK: 2169408

Matrix: Water

Associated Lab Samples: 50287175001, 50287175002, 50287175003, 50287175004, 50287175005, 50287175006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.914 ± 0.418 (0.681) C:72% T:87%	pCi/L	06/15/21 14:46	

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## QUALIFIERS

Project: Eagle Valley P1R2

Pace Project No.: 50287175

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1R2  
Pace Project No.: 50287175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287175001	MW-15S	EPA 9056	622300		
50287175002	MW-16S	EPA 9056	622300		
50287175003	MW-16I	EPA 9056	622300		
50287175004	MW-16D	EPA 9056	622300		
50287175001	MW-15S	EPA 3010	621103	EPA 6010	622008
50287175002	MW-16S	EPA 3010	621103	EPA 6010	622008
50287175003	MW-16I	EPA 3010	621103	EPA 6010	622008
50287175004	MW-16D	EPA 3010	621103	EPA 6010	622008
50287175001	MW-15S	EPA 3010	621081	EPA 6010	621446
50287175002	MW-16S	EPA 3010	621081	EPA 6010	621446
50287175003	MW-16I	EPA 3010	621081	EPA 6010	621446
50287175004	MW-16D	EPA 3010	621081	EPA 6010	621446
50287175001	MW-15S	EPA 200.2	620693	EPA 6020	620958
50287175002	MW-16S	EPA 200.2	620693	EPA 6020	620958
50287175003	MW-16I	EPA 200.2	620693	EPA 6020	620958
50287175004	MW-16D	EPA 200.2	620693	EPA 6020	620958
50287175001	MW-15S	EPA 903.1	449558		
50287175002	MW-16S	EPA 903.1	449558		
50287175003	MW-16I	EPA 903.1	449558		
50287175004	MW-16D	EPA 903.1	449558		
50287175005	MW-16D MS	EPA 903.1	449558		
50287175006	MW-16D MSD	EPA 903.1	449558		
50287175001	MW-15S	EPA 904.0	449559		
50287175002	MW-16S	EPA 904.0	449559		
50287175003	MW-16I	EPA 904.0	449559		
50287175004	MW-16D	EPA 904.0	449559		
50287175005	MW-16D MS	EPA 904.0	449559		
50287175006	MW-16D MSD	EPA 904.0	449559		
50287175001	MW-15S	Total Radium Calculation	452984		
50287175002	MW-16S	Total Radium Calculation	452984		
50287175003	MW-16I	Total Radium Calculation	452984		
50287175004	MW-16D	Total Radium Calculation	452984		
50287175001	MW-15S	SM 2320B	620589		
50287175002	MW-16S	SM 2320B	620589		
50287175003	MW-16I	SM 2320B	620589		
50287175004	MW-16D	SM 2320B	620589		
50287175001	MW-15S	SM 2540C	620736		
50287175002	MW-16S	SM 2540C	620736		
50287175003	MW-16I	SM 2540C	620736		
50287175004	MW-16D	SM 2540C	620736		
50287175001	MW-15S	SM 4500-H+B	620752		
50287175002	MW-16S	SM 4500-H+B	620752		
50287175003	MW-16I	SM 4500-H+B	620752		
50287175004	MW-16D	SM 4500-H+B	620752		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1R2

Pace Project No.: 50287175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287175001	MW-15S	SM 4500-S2-D	620459		
50287175002	MW-16S	SM 4500-S2-D	620459		
50287175003	MW-16I	SM 4500-S2-D	620459		
50287175004	MW-16D	SM 4500-S2-D	620459		
50287175001	MW-15S	HACH 8146	620728		
50287175002	MW-16S	HACH 8146	620728		
50287175003	MW-16I	HACH 8146	620728		
50287175004	MW-16D	HACH 8146	620728		
50287175001	MW-15S	EPA 353.2	620452		
50287175002	MW-16S	EPA 353.2	620452		
50287175003	MW-16I	EPA 353.2	620452		
50287175004	MW-16D	EPA 353.2	620452		
50287175001	MW-15S	EPA 365.1	621763	EPA 365.1	621926
50287175002	MW-16S	EPA 365.1	621763	EPA 365.1	621926
50287175003	MW-16I	EPA 365.1	621763	EPA 365.1	621926
50287175004	MW-16D	EPA 365.1	621763	EPA 365.1	621926
50287175001	MW-15S	SM 5310C	621320		
50287175002	MW-16S	SM 5310C	621320		
50287175003	MW-16I	SM 5310C	621320		
50287175004	MW-16D	SM 5310C	621320		
50287175001	MW-15S	SM 5310C	621630		
50287175002	MW-16S	SM 5310C	621630		
50287175003	MW-16I	SM 5310C	621630		
50287175004	MW-16D	SM 5310C	622388		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MRP 5/11/21 1740

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: 1.9/1.3, 1.8/1.2, 2.4/1.8, 1.5/0.9, 1.2/0.6  
 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 (&lt;2)</u> <u>H2SO4 (&lt;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>1800</u>	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Custody Signatures Present?	/		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Containers Intact?:	/		Headspace Wisconsin Sulfide?			/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Present?		/	
			Trip Blank Custody Seals?:			/

COMMENTS:

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### 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																										
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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		
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: Eagle Valley P1R1  
Pace Project No.: 50287176

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 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: Eagle Valley P1R1

Pace Project No.: 50287176

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287176001	MW-2S	Water	05/11/21 12:21	05/11/21 14:40
50287176002	MW-2I	Water	05/11/21 10:01	05/11/21 14:40
50287176003	MW-2D	Water	05/11/21 11:03	05/11/21 14:40
50287176004	MW-3I	Water	05/11/21 13:33	05/11/21 14:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287176001	MW-2S	EPA 9056	RMR	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	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	SWJ	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		
		50287176002	MW-2I	EPA 9056	RMR	3	PASI-I
				EPA 6010	JDG	15	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			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	SWJ			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		
50287176003	MW-2D			EPA 9056	RMR	3	PASI-I
				EPA 6010	JDG	15	PASI-I
				EPA 6010	JPK	2	PASI-I

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**SAMPLE ANALYTE COUNT**

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287176004	MW-3I	EPA 6020	RAM	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	SWJ	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	JDG	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	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	SWJ	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		

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287176001</b>	<b>MW-2S</b>					
EPA 9056	Chloride	69.3	mg/L	2.5	05/24/21 08:32	
EPA 9056	Fluoride	0.11	mg/L	0.10	05/24/21 08:17	
EPA 9056	Sulfate	110	mg/L	2.5	05/24/21 08:32	
EPA 6010	Barium	116	ug/L	10.0	05/21/21 09:33	
EPA 6010	Boron	808	ug/L	100	05/21/21 09:33	
EPA 6010	Calcium	137000	ug/L	1000	05/21/21 09:33	
EPA 6010	Lithium	42.3	ug/L	20.0	05/21/21 09:33	
EPA 6010	Magnesium	31600	ug/L	1000	05/21/21 09:33	
EPA 6010	Manganese	37.5	ug/L	10.0	05/21/21 09:33	
EPA 6010	Molybdenum	13.9	ug/L	10.0	05/21/21 09:33	
EPA 6010	Potassium	7350	ug/L	1000	05/21/21 09:33	
EPA 6010	Silica	14400	ug/L	450	05/21/21 09:33	N2
EPA 6010	Sodium	70400	ug/L	1000	05/21/21 09:33	
EPA 6010	Molybdenum, Dissolved	15.8	ug/L	10.0	05/19/21 01:45	
EPA 6020	Arsenic	12.4	ug/L	1.0	05/18/21 04:20	
EPA 6020	Selenium	5.5	ug/L	1.0	05/18/21 04:20	
EPA 903.1	Radium-226	0.590 ± 0.495 (0.709)	pCi/L		06/17/21 13:45	
EPA 904.0	Radium-228	C:NA T:90% -0.0551 ± 0.423 (1.01)	pCi/L		06/15/21 17:56	
		C:71% T:87%				
Total Radium Calculation	Total Radium	0.590 ± 0.918 (1.72)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	384	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	384	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	685	mg/L	10.0	05/14/21 09:42	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/14/21 13:30	H3
EPA 353.2	Nitrogen, Nitrate	1.1	mg/L	0.10	05/13/21 08:07	
EPA 365.1	Phosphate as P04	0.20	mg/L	0.15	05/20/21 16:00	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	05/24/21 12:36	
<b>50287176002</b>	<b>MW-2I</b>					
EPA 9056	Chloride	94.1	mg/L	2.5	05/24/21 09:16	
EPA 9056	Fluoride	0.18	mg/L	0.10	05/24/21 09:01	
EPA 9056	Sulfate	112	mg/L	2.5	05/24/21 09:16	
EPA 6010	Barium	82.3	ug/L	10.0	05/21/21 09:36	
EPA 6010	Boron	248	ug/L	100	05/21/21 09:36	
EPA 6010	Calcium	80300	ug/L	1000	05/21/21 09:36	
EPA 6010	Lithium	58.1	ug/L	20.0	05/21/21 09:36	
EPA 6010	Magnesium	22900	ug/L	1000	05/21/21 09:36	
EPA 6010	Manganese	123	ug/L	10.0	05/21/21 09:36	
EPA 6010	Molybdenum	64.1	ug/L	10.0	05/21/21 09:36	
EPA 6010	Potassium	9090	ug/L	1000	05/21/21 09:36	
EPA 6010	Silica	11500	ug/L	450	05/21/21 09:36	N2
EPA 6010	Sodium	86400	ug/L	1000	05/21/21 09:36	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287176002</b>	<b>MW-2I</b>					
EPA 6010	Manganese, Dissolved	105	ug/L	10.0	05/19/21 01:47	
EPA 6010	Molybdenum, Dissolved	63.1	ug/L	10.0	05/19/21 01:47	
EPA 903.1	Radium-226	0.671 ± 0.470 (0.620) C:NA T:106%	pCi/L		06/17/21 13:45	
EPA 904.0	Radium-228	0.626 ± 0.546 (1.10) C:71% T:95%	pCi/L		06/15/21 17:56	
Total Radium Calculation	Total Radium	1.30 ± 1.02 (1.72)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	567	mg/L	10.0	05/14/21 09:43	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	05/14/21 13:10	H3
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	05/24/21 13:02	
<b>50287176003</b>	<b>MW-2D</b>					
EPA 9056	Chloride	87.4	mg/L	25.0	05/25/21 15:27	
EPA 9056	Fluoride	0.19	mg/L	0.10	05/24/21 10:00	
EPA 9056	Sulfate	82.9	mg/L	25.0	05/25/21 15:27	
EPA 6010	Barium	74.2	ug/L	10.0	05/21/21 09:38	
EPA 6010	Boron	245	ug/L	100	05/21/21 09:38	
EPA 6010	Calcium	87600	ug/L	1000	05/21/21 09:38	
EPA 6010	Iron	1050	ug/L	100	05/21/21 09:38	
EPA 6010	Lithium	51.0	ug/L	20.0	05/21/21 09:38	
EPA 6010	Magnesium	19600	ug/L	1000	05/21/21 09:38	
EPA 6010	Manganese	223	ug/L	10.0	05/21/21 09:38	
EPA 6010	Molybdenum	67.5	ug/L	10.0	05/21/21 09:38	
EPA 6010	Potassium	8580	ug/L	1000	05/21/21 09:38	
EPA 6010	Silica	10800	ug/L	450	05/21/21 09:38	N2
EPA 6010	Sodium	66800	ug/L	1000	05/21/21 09:38	
EPA 6010	Manganese, Dissolved	216	ug/L	10.0	05/19/21 01:49	
EPA 6010	Molybdenum, Dissolved	65.1	ug/L	10.0	05/19/21 01:49	
EPA 6020	Arsenic	4.5	ug/L	1.0	05/18/21 04:55	
EPA 903.1	Radium-226	0.431 ± 0.528 (0.868) C:NA T:95%	pCi/L		06/17/21 13:45	
EPA 904.0	Radium-228	0.445 ± 0.541 (1.14) C:69% T:91%	pCi/L		06/15/21 17:56	
Total Radium Calculation	Total Radium	0.876 ± 1.07 (2.01)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	213	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	213	mg/L	2.0	05/13/21 20:05	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287176003</b>	<b>MW-2D</b>					
SM 2540C	Total Dissolved Solids	491	mg/L	10.0	05/14/21 09:43	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/14/21 13:19	H3
HACH 8146	Iron, Ferrous	0.20	mg/L	0.20	05/14/21 14:13	H3,N2
<b>50287176004</b>	<b>MW-3I</b>					
EPA 9056	Chloride	167	mg/L	25.0	05/26/21 09:37	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/24/21 10:29	
EPA 9056	Sulfate	215	mg/L	25.0	05/26/21 09:37	
EPA 6010	Barium	91.1	ug/L	10.0	05/21/21 09:40	
EPA 6010	Boron	124	ug/L	100	05/21/21 09:40	
EPA 6010	Calcium	97500	ug/L	1000	05/21/21 09:40	
EPA 6010	Magnesium	31000	ug/L	1000	05/21/21 09:40	
EPA 6010	Manganese	46.5	ug/L	10.0	05/21/21 09:40	
EPA 6010	Molybdenum	59.5	ug/L	10.0	05/21/21 09:40	
EPA 6010	Potassium	5540	ug/L	1000	05/21/21 09:40	
EPA 6010	Silica	12100	ug/L	450	05/21/21 09:40	N2
EPA 6010	Sodium	115000	ug/L	1000	05/21/21 09:40	
EPA 6010	Manganese, Dissolved	45.7	ug/L	10.0	05/19/21 01:51	
EPA 6010	Molybdenum, Dissolved	56.9	ug/L	10.0	05/19/21 01:51	
EPA 903.1	Radium-226	0.321 ± 0.494 (0.850) C:NA T:100%	pCi/L		06/17/21 13:45	
EPA 904.0	Radium-228	-0.0129 ± 0.455 (1.07) C:72% T:94%	pCi/L		06/15/21 17:56	
Total Radium Calculation	Total Radium	0.321 ± 0.949 (1.92)	pCi/L		06/17/21 16:21	
SM 2320B	Alkalinity, Total as CaCO3	223	mg/L	2.0	05/13/21 20:05	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	223	mg/L	2.0	05/13/21 20:05	
SM 2540C	Total Dissolved Solids	678	mg/L	10.0	05/14/21 09:43	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/14/21 13:35	H3
EPA 353.2	Nitrogen, Nitrate	0.93	mg/L	0.10	05/13/21 08:22	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2S		Lab ID: 50287176001	Collected: 05/11/21 12:21	Received: 05/11/21 14:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	69.3	mg/L	2.5	10		05/24/21 08:32	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		05/24/21 08:17	16984-48-8	
Sulfate	110	mg/L	2.5	10		05/24/21 08:32	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:33	7429-90-5	
Barium	116	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:33	7440-39-3	
Boron	808	ug/L	100	1	05/19/21 06:46	05/21/21 09:33	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/19/21 06:46	05/21/21 09:33	7440-43-9	
Calcium	137000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:33	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:33	7440-47-3	
Iron	ND	ug/L	100	1	05/19/21 06:46	05/21/21 09:33	7439-89-6	
Lead	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:33	7439-92-1	
Lithium	42.3	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:33	7439-93-2	
Magnesium	31600	ug/L	1000	1	05/19/21 06:46	05/21/21 09:33	7439-95-4	
Manganese	37.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:33	7439-96-5	
Molybdenum	13.9	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:33	7439-98-7	
Potassium	7350	ug/L	1000	1	05/19/21 06:46	05/21/21 09:33	7440-09-7	
Silica	14400	ug/L	450	1	05/19/21 06:46	05/21/21 09:33	7631-86-9	N2
Sodium	70400	ug/L	1000	1	05/19/21 06:46	05/21/21 09:33	7440-23-5	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Manganese, Dissolved	ND	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:45	7439-96-5	
Molybdenum, Dissolved	15.8	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:45	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:20	7440-36-0	
Arsenic	12.4	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:20	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/16/21 08:25	05/18/21 04:20	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:20	7440-48-4	
Selenium	5.5	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:20	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:20	7440-28-0	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis						
Mercury	ND	ug/L	2.0	1	05/19/21 11:00	05/19/21 19:40	7439-97-6	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis						
Alkalinity, Total as CaCO3	384	mg/L	2.0	1		05/13/21 20:05		
Alkalinity, Bicarbonate (CaCO3)	384	mg/L	2.0	1		05/13/21 20:05		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2S	Lab ID: 50287176001	Collected: 05/11/21 12:21	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>685</b>	mg/L	10.0	1		05/14/21 09:42		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.4</b>	Std. Units	0.10	1		05/14/21 13:30		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:12		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>1.1</b>	mg/L	0.10	1		05/13/21 08:07	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:07	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	<b>0.20</b>	mg/L	0.15	1	05/20/21 11:28	05/20/21 16:00		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 20:37	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>1.2</b>	mg/L	1.0	1		05/24/21 12:36		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2I	Lab ID: 50287176002	Collected: 05/11/21 10:01	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	94.1	mg/L	2.5	10		05/24/21 09:16	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		05/24/21 09:01	16984-48-8	
Sulfate	112	mg/L	2.5	10		05/24/21 09:16	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:36	7429-90-5	
Barium	82.3	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:36	7440-39-3	
Boron	248	ug/L	100	1	05/19/21 06:46	05/21/21 09:36	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/19/21 06:46	05/21/21 09:36	7440-43-9	
Calcium	80300	ug/L	1000	1	05/19/21 06:46	05/21/21 09:36	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:36	7440-47-3	
Iron	ND	ug/L	100	1	05/19/21 06:46	05/21/21 09:36	7439-89-6	
Lead	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:36	7439-92-1	
Lithium	58.1	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:36	7439-93-2	
Magnesium	22900	ug/L	1000	1	05/19/21 06:46	05/21/21 09:36	7439-95-4	
Manganese	123	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:36	7439-96-5	
Molybdenum	64.1	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:36	7439-98-7	
Potassium	9090	ug/L	1000	1	05/19/21 06:46	05/21/21 09:36	7440-09-7	
Silica	11500	ug/L	450	1	05/19/21 06:46	05/21/21 09:36	7631-86-9	N2
Sodium	86400	ug/L	1000	1	05/19/21 06:46	05/21/21 09:36	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	105	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:47	7439-96-5	
Molybdenum, Dissolved	63.1	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:47	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:51	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:51	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/16/21 08:25	05/18/21 04:51	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:51	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:51	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:51	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/19/21 11:00	05/19/21 19:46	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	244	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2I	Lab ID: 50287176002	Collected: 05/11/21 10:01	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>567</b>	mg/L	10.0	1		05/14/21 09:43		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>8.0</b>	Std. Units	0.10	1		05/14/21 13:10		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:12		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 07:54	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 07:54	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 16:03		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 20:48	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>1.6</b>	mg/L	1.0	1		05/24/21 13:02		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2D	Lab ID: 50287176003	Collected: 05/11/21 11:03	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	87.4	mg/L	25.0	100		05/25/21 15:27	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		05/24/21 10:00	16984-48-8	
Sulfate	82.9	mg/L	25.0	100		05/25/21 15:27	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:38	7429-90-5	
Barium	74.2	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:38	7440-39-3	
Boron	245	ug/L	100	1	05/19/21 06:46	05/21/21 09:38	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/19/21 06:46	05/21/21 09:38	7440-43-9	
Calcium	87600	ug/L	1000	1	05/19/21 06:46	05/21/21 09:38	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:38	7440-47-3	
Iron	1050	ug/L	100	1	05/19/21 06:46	05/21/21 09:38	7439-89-6	
Lead	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:38	7439-92-1	
Lithium	51.0	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:38	7439-93-2	
Magnesium	19600	ug/L	1000	1	05/19/21 06:46	05/21/21 09:38	7439-95-4	
Manganese	223	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:38	7439-96-5	
Molybdenum	67.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:38	7439-98-7	
Potassium	8580	ug/L	1000	1	05/19/21 06:46	05/21/21 09:38	7440-09-7	
Silica	10800	ug/L	450	1	05/19/21 06:46	05/21/21 09:38	7631-86-9	N2
Sodium	66800	ug/L	1000	1	05/19/21 06:46	05/21/21 09:38	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	216	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:49	7439-96-5	
Molybdenum, Dissolved	65.1	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:49	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:55	7440-36-0	
Arsenic	4.5	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:55	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/16/21 08:25	05/18/21 04:55	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:55	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:55	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:55	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/19/21 11:00	05/19/21 19:48	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	213	mg/L	2.0	1		05/13/21 20:05		
Alkalinity, Bicarbonate (CaCO3)	213	mg/L	2.0	1		05/13/21 20:05		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-2D	Lab ID: 50287176003	Collected: 05/11/21 11:03	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	491	mg/L	10.0	1		05/14/21 09:43		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/14/21 13:19		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	0.20	mg/L	0.20	1		05/14/21 14:13		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:01	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:01	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 16:03		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 21:04	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/24/21 13:28		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-3I	Lab ID: 50287176004	Collected: 05/11/21 13:33	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	167	mg/L	25.0	100		05/26/21 09:37	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/24/21 10:29	16984-48-8	
Sulfate	215	mg/L	25.0	100		05/26/21 09:37	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/19/21 06:46	05/21/21 09:40	7429-90-5	
Barium	91.1	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:40	7440-39-3	
Boron	124	ug/L	100	1	05/19/21 06:46	05/21/21 09:40	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/19/21 06:46	05/21/21 09:40	7440-43-9	
Calcium	97500	ug/L	1000	1	05/19/21 06:46	05/21/21 09:40	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:40	7440-47-3	
Iron	ND	ug/L	100	1	05/19/21 06:46	05/21/21 09:40	7439-89-6	
Lead	ND	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:40	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/19/21 06:46	05/21/21 09:40	7439-93-2	
Magnesium	31000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:40	7439-95-4	
Manganese	46.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:40	7439-96-5	
Molybdenum	59.5	ug/L	10.0	1	05/19/21 06:46	05/21/21 09:40	7439-98-7	
Potassium	5540	ug/L	1000	1	05/19/21 06:46	05/21/21 09:40	7440-09-7	
Silica	12100	ug/L	450	1	05/19/21 06:46	05/21/21 09:40	7631-86-9	N2
Sodium	115000	ug/L	1000	1	05/19/21 06:46	05/21/21 09:40	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	45.7	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:51	7439-96-5	
Molybdenum, Dissolved	56.9	ug/L	10.0	1	05/18/21 06:50	05/19/21 01:51	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:59	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:59	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/16/21 08:25	05/18/21 04:59	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:59	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:59	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/16/21 08:25	05/18/21 04:59	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/19/21 11:00	05/19/21 19:50	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	223	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Bicarbonate (CaCO3)	223	mg/L	2.0	1		05/13/21 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/13/21 20:05		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Sample: MW-3I	Lab ID: 50287176004	Collected: 05/11/21 13:33	Received: 05/11/21 14:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	678	mg/L	10.0	1		05/14/21 09:43		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/14/21 13:35		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 09:45	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:14		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.93	mg/L	0.10	1		05/13/21 08:22	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:22	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 11:28	05/20/21 16:04		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/19/21 21:15	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/24/21 13:54		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	622300	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2868169 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/23/21 18:36	
Fluoride	mg/L	ND	0.10	05/23/21 18:36	
Sulfate	mg/L	ND	0.25	05/23/21 18:36	

LABORATORY CONTROL SAMPLE: 2868170

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	0.51	103	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868171 2868172

Parameter	Units	50287175004		2868171		2868172		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	104	12.5	12.5	119	119	123	119	119	80-120	0	15	M0
Fluoride	mg/L	0.24	0.5	0.5	0.78	0.80	110	114	114	80-120	2	15	
Sulfate	mg/L	83.2	25	25	108	108	99	100	100	80-120	0	15	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 620588

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2859797

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/19/21 19:25	

LABORATORY CONTROL SAMPLE: 2859798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859799 2859800

Parameter	Units	50287193003 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	5.2	4.9	104	99	75-125	5	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 621103

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2862602

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/21/21 08:29	
Barium	ug/L	ND	10.0	05/21/21 08:29	
Boron	ug/L	ND	100	05/21/21 08:29	
Cadmium	ug/L	ND	2.0	05/21/21 08:29	
Calcium	ug/L	ND	1000	05/21/21 08:29	
Chromium	ug/L	ND	10.0	05/21/21 08:29	
Iron	ug/L	ND	100	05/21/21 08:29	
Lead	ug/L	ND	10.0	05/21/21 08:29	
Lithium	ug/L	ND	20.0	05/21/21 08:29	
Magnesium	ug/L	ND	1000	05/21/21 08:29	
Manganese	ug/L	ND	10.0	05/21/21 08:29	
Molybdenum	ug/L	ND	10.0	05/21/21 08:29	
Potassium	ug/L	ND	1000	05/21/21 08:29	
Silica	ug/L	ND	450	05/21/21 08:29	N2
Sodium	ug/L	ND	1000	05/21/21 08:29	

LABORATORY CONTROL SAMPLE: 2862603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10400	104	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lead	ug/L	1000	1020	102	80-120	
Lithium	ug/L	1000	997	100	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	
Potassium	ug/L	10000	10400	104	80-120	
Silica	ug/L	10700	9960	93		N2
Sodium	ug/L	10000	10200	102	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862604		2862605		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287175004 Result	MS Spike Conc.	MSD Spike Conc.									
Aluminum	ug/L	ND	10000	10000	10600	10600	105	105	75-125	0	20		
Barium	ug/L	73.7	1000	1000	1080	1080	101	101	75-125	0	20		
Boron	ug/L	279	1000	1000	1310	1310	103	103	75-125	0	20		
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	75-125	0	20		
Calcium	ug/L	85000	10000	10000	95300	93000	103	80	75-125	2	20		
Chromium	ug/L	ND	1000	1000	1020	1010	102	101	75-125	1	20		
Iron	ug/L	1340	10000	10000	11300	11300	100	99	75-125	0	20		
Lead	ug/L	ND	1000	1000	979	982	98	98	75-125	0	20		
Lithium	ug/L	67.6	1000	1000	1120	1120	105	105	75-125	0	20		
Magnesium	ug/L	20400	10000	10000	30400	29700	101	94	75-125	2	20		
Manganese	ug/L	186	1000	1000	1170	1170	98	98	75-125	0	20		
Molybdenum	ug/L	71.6	1000	1000	1110	1110	104	104	75-125	0	20		
Potassium	ug/L	8910	10000	10000	19600	19400	107	105	75-125	1	20		
Silica	ug/L	10900	10700	10700	21200	21300	96	97		0		N2	
Sodium	ug/L	68000	10000	10000	78700	76600	108	86	75-125	3	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	621081	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2862524 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/19/21 01:08	
Molybdenum, Dissolved	ug/L	ND	10.0	05/19/21 01:08	

LABORATORY CONTROL SAMPLE: 2862525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	963	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862526 2862527

Parameter	Units	50287175004 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	177	1000	1000	1140	1150	96	97	75-125	1	20	
Molybdenum, Dissolved	ug/L	69.8	1000	1000	1090	1110	102	104	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862528 2862529

Parameter	Units	50287101020 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	120	1000	1000	1070	1060	95	94	75-125	0	20	
Molybdenum, Dissolved	ug/L	13.1	1000	1000	1030	1030	101	101	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	620811	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2861276 Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/18/21 12:35	
Arsenic	ug/L	ND	1.0	05/18/21 12:35	
Beryllium	ug/L	ND	0.20	05/18/21 12:35	
Cobalt	ug/L	ND	1.0	05/18/21 12:35	
Selenium	ug/L	ND	1.0	05/18/21 12:35	
Thallium	ug/L	ND	1.0	05/18/21 12:35	

LABORATORY CONTROL SAMPLE: 2861277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.7	109	80-120	
Arsenic	ug/L	40	41.1	103	80-120	
Beryllium	ug/L	40	41.5	104	80-120	
Cobalt	ug/L	40	43.4	108	80-120	
Selenium	ug/L	40	40.8	102	80-120	
Thallium	ug/L	40	42.7	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861278 2861279

Parameter	Units	2861278		2861279		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	ND	40	40	40.0	40.3	99	100	75-125	1	20
Arsenic	ug/L	12.4	40	40	53.6	54.2	103	104	75-125	1	20
Beryllium	ug/L	ND	40	40	39.4	39.9	98	100	75-125	1	20
Cobalt	ug/L	ND	40	40	40.3	40.2	100	100	75-125	0	20
Selenium	ug/L	5.5	40	40	48.3	47.1	107	104	75-125	3	20
Thallium	ug/L	ND	40	40	43.5	43.8	109	109	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	620589	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2859803 Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	2.0	05/13/21 20:05	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/13/21 20:05	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/13/21 20:05	

LABORATORY CONTROL SAMPLE: 2859804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	51.0	102	90-110	

SAMPLE DUPLICATE: 2859805

Parameter	Units	50287175004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	209	215	3	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	209	215	3	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2859806

Parameter	Units	50287186001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	337	341	1	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	337	341	1	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<2.0	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 620736

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2860811

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/14/21 09:32	

LABORATORY CONTROL SAMPLE: 2860812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 2860813

Parameter	Units	50287175004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	538	518	4	10	

SAMPLE DUPLICATE: 2860814

Parameter	Units	50287193003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	750	800	6	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 620752

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: 50287176001, 50287176002, 50287176003, 50287176004

SAMPLE DUPLICATE: 2860881

Parameter	Units	50287193003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2860882

Parameter	Units	50287175004 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: Eagle Valley P1R1  
Pace Project No.: 50287176

QC Batch: 620459 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: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2859274 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/13/21 09:45	

LABORATORY CONTROL SAMPLE: 2859275

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: 2859276 2859277

Parameter	Units	50287175004 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	0.46	0.46	91	91	90-110	0	20	

MATRIX SPIKE SAMPLE: 2859278

Parameter	Units	50287226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.38	73	90-110	M0

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1  
Pace Project No.: 50287176

QC Batch: 620728	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2860776 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:11	H3,N2

LABORATORY CONTROL SAMPLE: 2860777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	103	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860778 2860779

Parameter	Units	50287175004 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	106	106	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2860780

Parameter	Units	50287176003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	0.20	1	1.2	98	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	620452	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: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2859241 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/13/21 07:50	
Nitrogen, Nitrite	mg/L	ND	0.10	05/13/21 07:50	

LABORATORY CONTROL SAMPLE: 2859242

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	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859243 2859244

Parameter	Units	50287175004		2859244		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	107	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	108	111	90-110	2	20 MO

MATRIX SPIKE SAMPLE: 2859245

Parameter	Units	50287228002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.22	1	0.98	76	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.96	95	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 621763

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: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2865257

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/20/21 15:55	

LABORATORY CONTROL SAMPLE: 2865258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865259 2865260

Parameter	Units	50287175004 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	1.6				2		

MATRIX SPIKE SAMPLE: 2865261

Parameter	Units	50287212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.22		1.6			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch:	621320	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2863341 Matrix: Water  
Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/19/21 18:23	

LABORATORY CONTROL SAMPLE: 2863342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863343 2863344

Parameter	Units	2863343		2863344		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Conc.	MS Result	MSD Conc.							
Total Organic Carbon	mg/L	ND	10	10	9.8	10	98	100	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863345 2863346

Parameter	Units	2863345		2863346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Conc.	MS Result	MSD Conc.							
Total Organic Carbon	mg/L	11.6	20	20	31.2	32.5	98	105	80-120	4	20	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 622388

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2868396

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/24/21 10:51	

LABORATORY CONTROL SAMPLE: 2868397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868398 2868399

Parameter	Units	50287175004		2868398		2868399		% 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	9.7	9.6	97	96	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868400 2868401

Parameter	Units	50287193003		2868400		2868401		% 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	9.5	9.4	95	94	80-120	1	20

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

**Sample: MW-2S**      **Lab ID: 50287176001**      Collected: 05/11/21 12:21      Received: 05/11/21 14:40      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	<b>0.590 ± 0.495 (0.709)</b> <b>C:NA T:90%</b>	pCi/L	06/17/21 13:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>-0.0551 ± 0.423 (1.01)</b> <b>C:71% T:87%</b>	pCi/L	06/15/21 17:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.590 ± 0.918 (1.72)</b>	pCi/L	06/17/21 16:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

**Sample: MW-2I**      **Lab ID: 50287176002**      Collected: 05/11/21 10:01      Received: 05/11/21 14:40      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	<b>0.671 ± 0.470 (0.620)</b> <b>C:NA T:106%</b>	pCi/L	06/17/21 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.626 ± 0.546 (1.10)</b> <b>C:71% T:95%</b>	pCi/L	06/15/21 17:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.30 ± 1.02 (1.72)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

**Sample: MW-2D**      **Lab ID: 50287176003**      Collected: 05/11/21 11:03      Received: 05/11/21 14:40      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	<b>0.431 ± 0.528 (0.868)</b> <b>C:NA T:95%</b>	pCi/L	06/17/21 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.445 ± 0.541 (1.14)</b> <b>C:69% T:91%</b>	pCi/L	06/15/21 17:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.876 ± 1.07 (2.01)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

**Sample: MW-3I**      **Lab ID: 50287176004**      Collected: 05/11/21 13:33      Received: 05/11/21 14:40      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	<b>0.321 ± 0.494 (0.850)</b> <b>C:NA T:100%</b>	pCi/L	06/17/21 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>-0.0129 ± 0.455 (1.07)</b> <b>C:72% T:94%</b>	pCi/L	06/15/21 17:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.321 ± 0.949 (1.92)</b>	pCi/L	06/17/21 16:21	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 449558

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: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2169407

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0862 ± 0.267 (0.608) C:NA T:99%	pCi/L	06/17/21 13:05	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1R1

Pace Project No.: 50287176

QC Batch: 449559

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: 50287176001, 50287176002, 50287176003, 50287176004

METHOD BLANK: 2169408

Matrix: Water

Associated Lab Samples: 50287176001, 50287176002, 50287176003, 50287176004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.914 ± 0.418 (0.681) C:72% T:87%	pCi/L	06/15/21 14:46	

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## QUALIFIERS

Project: Eagle Valley P1R1

Pace Project No.: 50287176

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Eagle Valley P1R1  
Pace Project No.: 50287176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287176001	MW-2S	EPA 9056	622300		
50287176002	MW-2I	EPA 9056	622300		
50287176003	MW-2D	EPA 9056	622300		
50287176004	MW-3I	EPA 9056	622300		
50287176001	MW-2S	EPA 3010	621103	EPA 6010	622008
50287176002	MW-2I	EPA 3010	621103	EPA 6010	622008
50287176003	MW-2D	EPA 3010	621103	EPA 6010	622008
50287176004	MW-3I	EPA 3010	621103	EPA 6010	622008
50287176001	MW-2S	EPA 3010	621081	EPA 6010	621446
50287176002	MW-2I	EPA 3010	621081	EPA 6010	621446
50287176003	MW-2D	EPA 3010	621081	EPA 6010	621446
50287176004	MW-3I	EPA 3010	621081	EPA 6010	621446
50287176001	MW-2S	EPA 200.2	620811	EPA 6020	620961
50287176002	MW-2I	EPA 200.2	620811	EPA 6020	620961
50287176003	MW-2D	EPA 200.2	620811	EPA 6020	620961
50287176004	MW-3I	EPA 200.2	620811	EPA 6020	620961
50287176001	MW-2S	EPA 7470	620588	EPA 7470	621706
50287176002	MW-2I	EPA 7470	620588	EPA 7470	621706
50287176003	MW-2D	EPA 7470	620588	EPA 7470	621706
50287176004	MW-3I	EPA 7470	620588	EPA 7470	621706
50287176001	MW-2S	EPA 903.1	449558		
50287176002	MW-2I	EPA 903.1	449558		
50287176003	MW-2D	EPA 903.1	449558		
50287176004	MW-3I	EPA 903.1	449558		
50287176001	MW-2S	EPA 904.0	449559		
50287176002	MW-2I	EPA 904.0	449559		
50287176003	MW-2D	EPA 904.0	449559		
50287176004	MW-3I	EPA 904.0	449559		
50287176001	MW-2S	Total Radium Calculation	452984		
50287176002	MW-2I	Total Radium Calculation	452984		
50287176003	MW-2D	Total Radium Calculation	452984		
50287176004	MW-3I	Total Radium Calculation	452984		
50287176001	MW-2S	SM 2320B	620589		
50287176002	MW-2I	SM 2320B	620589		
50287176003	MW-2D	SM 2320B	620589		
50287176004	MW-3I	SM 2320B	620589		
50287176001	MW-2S	SM 2540C	620736		
50287176002	MW-2I	SM 2540C	620736		
50287176003	MW-2D	SM 2540C	620736		
50287176004	MW-3I	SM 2540C	620736		
50287176001	MW-2S	SM 4500-H+B	620752		
50287176002	MW-2I	SM 4500-H+B	620752		
50287176003	MW-2D	SM 4500-H+B	620752		
50287176004	MW-3I	SM 4500-H+B	620752		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1R1

Pace Project No.: 50287176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287176001	MW-2S	SM 4500-S2-D	620459		
50287176002	MW-2I	SM 4500-S2-D	620459		
50287176003	MW-2D	SM 4500-S2-D	620459		
50287176004	MW-3I	SM 4500-S2-D	620459		
50287176001	MW-2S	HACH 8146	620728		
50287176002	MW-2I	HACH 8146	620728		
50287176003	MW-2D	HACH 8146	620728		
50287176004	MW-3I	HACH 8146	620728		
50287176001	MW-2S	EPA 353.2	620452		
50287176002	MW-2I	EPA 353.2	620452		
50287176003	MW-2D	EPA 353.2	620452		
50287176004	MW-3I	EPA 353.2	620452		
50287176001	MW-2S	EPA 365.1	621763	EPA 365.1	621926
50287176002	MW-2I	EPA 365.1	621763	EPA 365.1	621926
50287176003	MW-2D	EPA 365.1	621763	EPA 365.1	621926
50287176004	MW-3I	EPA 365.1	621763	EPA 365.1	621926
50287176001	MW-2S	SM 5310C	621320		
50287176002	MW-2I	SM 5310C	621320		
50287176003	MW-2D	SM 5310C	621320		
50287176004	MW-3I	SM 5310C	621320		
50287176001	MW-2S	SM 5310C	622388		
50287176002	MW-2I	SM 5310C	622388		
50287176003	MW-2D	SM 5310C	622388		
50287176004	MW-3I	SM 5310C	622388		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MAP 5/11/21 1740

- 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: 1.9/1.3, 1.8/1.2, 2.4/1.8, 1.5/0.9, 1.2/0.6  
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>NO<sub>3</sub></u>	/		Circle: HNO <sub>3</sub> (<2) H <sub>2</sub> SO <sub>4</sub> (<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: <u>1800</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 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:

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July 27, 2021

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

RE: Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287286

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 12, 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: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287286001	MW-14S	Water	05/12/21 12:00	05/12/21 15:24
50287286002	MW-14I	Water	05/12/21 12:50	05/12/21 15:24
50287286003	MW-14D	Water	05/12/21 14:10	05/12/21 15:24
50287286004	MW-15I	Water	05/12/21 09:40	05/12/21 15:24
50287286005	MW-15D	Water	05/12/21 10:28	05/12/21 15:24
50287286006	DUP2	Water	05/12/21 08:00	05/12/21 15:24

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287286001	MW-14S	EPA 9056	RMR	3	PASI-I		
		EPA 6010	KJE	12	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	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	SWJ	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		
		50287286002	MW-14I	EPA 9056	RMR	3	PASI-I
				EPA 6010	KJE	12	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			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	SWJ			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		
50287286003	MW-14D			EPA 9056	RMR	3	PASI-I
				EPA 6010	KJE	12	PASI-I
				EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	4	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287286004	MW-15I	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	SWJ	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	KJE	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	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	SWJ	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		
50287286005	MW-15D	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	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: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

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	SLB	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50287286006	DUP2	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JKP	2	PASI-I
		EPA 6020	RAM	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	SWJ	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

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287286001</b>	<b>MW-14S</b>					
EPA 9056	Chloride	8.9	mg/L	0.25	05/26/21 12:21	
EPA 9056	Fluoride	0.10	mg/L	0.10	05/26/21 12:21	
EPA 9056	Sulfate	31.6	mg/L	2.5	05/26/21 12:37	
EPA 6010	Aluminum	243	ug/L	200	05/23/21 08:21	
EPA 6010	Barium	34.1	ug/L	10.0	05/23/21 08:21	
EPA 6010	Boron	537	ug/L	100	05/23/21 08:21	
EPA 6010	Calcium	101000	ug/L	1000	05/23/21 08:21	
EPA 6010	Iron	460	ug/L	100	05/23/21 08:21	
EPA 6010	Lithium	21.7	ug/L	20.0	05/23/21 08:21	
EPA 6010	Magnesium	25000	ug/L	1000	05/23/21 08:21	
EPA 6010	Manganese	37.3	ug/L	10.0	05/23/21 08:21	
EPA 6010	Molybdenum	52.6	ug/L	10.0	05/23/21 08:21	
EPA 6010	Potassium	2420	ug/L	1000	05/23/21 08:21	
EPA 6010	Silica	13300	ug/L	450	05/23/21 08:21	N2
EPA 6010	Sodium	12900	ug/L	1000	05/23/21 08:21	
EPA 6010	Molybdenum, Dissolved	49.4	ug/L	10.0	05/21/21 04:02	
EPA 903.1	Radium-226	-0.0992 ± 0.238 (0.596) C:NA T:106%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	0.484 ± 0.444 (0.911) C:69% T:89%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	0.484 ± 0.682 (1.51)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	280	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	280	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	405	mg/L	10.0	05/17/21 11:36	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/20/21 14:11	H3
EPA 353.2	Nitrogen, Nitrate	11.2	mg/L	1.0	05/13/21 09:01	
<b>50287286002</b>	<b>MW-14I</b>					
EPA 9056	Chloride	90.7	mg/L	25.0	05/26/21 13:17	
EPA 9056	Sulfate	363	mg/L	25.0	05/26/21 13:17	
EPA 6010	Aluminum	316	ug/L	200	05/23/21 08:27	
EPA 6010	Barium	28.4	ug/L	10.0	05/23/21 08:27	
EPA 6010	Boron	2010	ug/L	100	05/23/21 08:27	
EPA 6010	Calcium	172000	ug/L	1000	05/23/21 08:27	
EPA 6010	Iron	572	ug/L	100	05/23/21 08:27	
EPA 6010	Lithium	26.5	ug/L	20.0	05/23/21 08:27	
EPA 6010	Magnesium	37100	ug/L	1000	05/23/21 08:27	
EPA 6010	Manganese	134	ug/L	10.0	05/23/21 08:27	
EPA 6010	Molybdenum	15.8	ug/L	10.0	05/23/21 08:27	
EPA 6010	Potassium	4540	ug/L	1000	05/23/21 08:27	
EPA 6010	Silica	16100	ug/L	450	05/23/21 08:27	N2
EPA 6010	Sodium	93600	ug/L	1000	05/23/21 08:27	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287286002</b>	<b>MW-14I</b>					
EPA 6010	Manganese, Dissolved	113	ug/L	10.0	05/21/21 04:04	
EPA 6010	Molybdenum, Dissolved	14.8	ug/L	10.0	05/21/21 04:04	
EPA 903.1	Radium-226	-0.156 ± 0.368 (0.825) C:NA T:102%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	0.456 ± 0.495 (1.04) C:68% T:89%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	0.456 ± 0.863 (1.87)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	280	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	280	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	924	mg/L	20.0	05/17/21 11:40	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/20/21 14:15	H3
<b>50287286003</b>	<b>MW-14D</b>					
EPA 9056	Chloride	91.1	mg/L	25.0	05/26/21 14:09	
EPA 9056	Sulfate	218	mg/L	25.0	05/26/21 14:09	
EPA 6010	Barium	62.1	ug/L	10.0	05/23/21 08:29	
EPA 6010	Boron	4090	ug/L	100	05/23/21 08:29	
EPA 6010	Calcium	140000	ug/L	1000	05/23/21 08:29	
EPA 6010	Iron	147	ug/L	100	05/23/21 08:29	
EPA 6010	Lithium	79.4	ug/L	20.0	05/23/21 08:29	
EPA 6010	Magnesium	32700	ug/L	1000	05/23/21 08:29	
EPA 6010	Molybdenum	92.2	ug/L	10.0	05/23/21 08:29	
EPA 6010	Potassium	5190	ug/L	1000	05/23/21 08:29	
EPA 6010	Silica	14900	ug/L	450	05/23/21 08:29	N2
EPA 6010	Sodium	78400	ug/L	1000	05/23/21 08:29	
EPA 6010	Molybdenum, Dissolved	89.0	ug/L	10.0	05/21/21 04:06	
EPA 903.1	Radium-226	0.0546 ± 0.321 (0.656) C:NA T:99%	pCi/L		06/18/21 12:31	
EPA 904.0	Radium-228	0.0844 ± 0.396 (0.900) C:68% T:86%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	0.139 ± 0.717 (1.56)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	268	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	268	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	710	mg/L	20.0	05/17/21 11:42	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/20/21 14:16	H3

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287286004</b>	<b>MW-15I</b>					
EPA 9056	Chloride	111	mg/L	2.5	05/26/21 14:42	
EPA 9056	Fluoride	0.36	mg/L	0.10	05/26/21 14:26	
EPA 9056	Sulfate	223	mg/L	2.5	05/26/21 14:42	
EPA 6010	Barium	49.2	ug/L	10.0	05/23/21 08:32	
EPA 6010	Boron	8100	ug/L	100	05/23/21 08:32	
EPA 6010	Calcium	78300	ug/L	1000	05/23/21 08:32	
EPA 6010	Lithium	86.7	ug/L	20.0	05/23/21 08:32	
EPA 6010	Magnesium	17600	ug/L	1000	05/23/21 08:32	
EPA 6010	Manganese	87.7	ug/L	10.0	05/23/21 08:32	
EPA 6010	Molybdenum	432	ug/L	10.0	05/23/21 08:32	
EPA 6010	Potassium	9280	ug/L	1000	05/23/21 08:32	
EPA 6010	Silica	9870	ug/L	450	05/23/21 08:32	N2
EPA 6010	Sodium	124000	ug/L	1000	05/23/21 08:32	
EPA 6010	Manganese, Dissolved	85.8	ug/L	10.0	05/21/21 04:08	
EPA 6010	Molybdenum, Dissolved	420	ug/L	10.0	05/21/21 04:08	
EPA 903.1	Radium-226	0.750 ± 0.526 (0.693)	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	C:NA T:96% 0.323 ± 0.418 (0.892)	pCi/L		06/17/21 14:12	
		C:68% T:91%				
Total Radium Calculation	Total Radium	1.07 ± 0.944 (1.59)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	177	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	661	mg/L	10.0	05/17/21 11:43	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/20/21 14:17	H3
<b>50287286005</b>	<b>MW-15D</b>					
EPA 9056	Chloride	138	mg/L	25.0	05/27/21 16:21	
EPA 9056	Fluoride	0.15	mg/L	0.10	05/26/21 11:19	
EPA 9056	Sulfate	237	mg/L	2.5	05/26/21 11:35	
EPA 6010	Aluminum	228	ug/L	200	05/23/21 08:34	
EPA 6010	Barium	64.0	ug/L	10.0	05/23/21 08:34	
EPA 6010	Boron	5000	ug/L	100	05/23/21 08:34	
EPA 6010	Calcium	113000	ug/L	1000	05/23/21 08:34	
EPA 6010	Iron	640	ug/L	100	05/23/21 08:34	
EPA 6010	Lithium	88.1	ug/L	20.0	05/23/21 08:34	
EPA 6010	Magnesium	20800	ug/L	1000	05/23/21 08:34	
EPA 6010	Manganese	430	ug/L	10.0	05/23/21 08:34	
EPA 6010	Molybdenum	190	ug/L	10.0	05/23/21 08:34	
EPA 6010	Potassium	7560	ug/L	1000	05/23/21 08:34	
EPA 6010	Silica	12800	ug/L	450	05/23/21 08:34	N2
EPA 6010	Sodium	117000	ug/L	1000	05/23/21 08:34	
EPA 6010	Manganese, Dissolved	390	ug/L	10.0	05/21/21 04:11	
EPA 6010	Molybdenum, Dissolved	188	ug/L	10.0	05/21/21 04:11	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287286005</b>	<b>MW-15D</b>					
EPA 6020	Arsenic	1.0	ug/L	1.0	05/21/21 17:16	
EPA 903.1	Radium-226	0.484 ± 0.379 (0.445) C:NA T:98%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	0.723 ± 0.474 (0.910) C:69% T:85%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	1.21 ± 0.853 (1.36)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	186	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	186	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	738	mg/L	20.0	05/17/21 11:43	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/20/21 14:18	H3
<b>50287286006</b>	<b>DUP2</b>					
EPA 9056	Chloride	110	mg/L	2.5	05/26/21 12:08	
EPA 9056	Fluoride	0.36	mg/L	0.10	05/26/21 11:51	
EPA 9056	Sulfate	221	mg/L	2.5	05/26/21 12:08	
EPA 6010	Barium	50.2	ug/L	10.0	05/23/21 08:36	
EPA 6010	Boron	8240	ug/L	100	05/23/21 08:36	
EPA 6010	Calcium	79400	ug/L	1000	05/23/21 08:36	
EPA 6010	Lithium	88.7	ug/L	20.0	05/23/21 08:36	
EPA 6010	Magnesium	17700	ug/L	1000	05/23/21 08:36	
EPA 6010	Manganese	88.8	ug/L	10.0	05/23/21 08:36	
EPA 6010	Molybdenum	438	ug/L	10.0	05/23/21 08:36	
EPA 6010	Potassium	9460	ug/L	1000	05/23/21 08:36	
EPA 6010	Silica	10000	ug/L	450	05/23/21 08:36	N2
EPA 6010	Sodium	126000	ug/L	1000	05/23/21 08:36	
EPA 6010	Manganese, Dissolved	85.4	ug/L	10.0	05/21/21 04:13	
EPA 6010	Molybdenum, Dissolved	430	ug/L	10.0	05/21/21 04:13	
EPA 903.1	Radium-226	0.730 ± 0.508 (0.684) C:NA T:99%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	1.57 ± 0.601 (0.944) C:65% T:89%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	2.30 ± 1.11 (1.63)	pCi/L		06/22/21 15:46	
SM 2320B	Alkalinity, Total as CaCO3	177	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	660	mg/L	10.0	05/17/21 11:44	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/20/21 14:21	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14S	Lab ID: 50287286001	Collected: 05/12/21 12:00	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	8.9	mg/L	0.25	1		05/26/21 12:21	16887-00-6	
Fluoride	0.10	mg/L	0.10	1		05/26/21 12:21	16984-48-8	
Sulfate	31.6	mg/L	2.5	10		05/26/21 12:37	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	243	ug/L	200	1	05/21/21 06:55	05/23/21 08:21	7429-90-5	
Barium	34.1	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:21	7440-39-3	
Boron	537	ug/L	100	1	05/21/21 06:55	05/23/21 08:21	7440-42-8	
Calcium	101000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:21	7440-70-2	
Iron	460	ug/L	100	1	05/21/21 06:55	05/23/21 08:21	7439-89-6	
Lithium	21.7	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:21	7439-93-2	
Magnesium	25000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:21	7439-95-4	
Manganese	37.3	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:21	7439-96-5	
Molybdenum	52.6	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:21	7439-98-7	
Potassium	2420	ug/L	1000	1	05/21/21 06:55	05/23/21 08:21	7440-09-7	
Silica	13300	ug/L	450	1	05/21/21 06:55	05/23/21 08:21	7631-86-9	N2
Sodium	12900	ug/L	1000	1	05/21/21 06:55	05/23/21 08:21	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:02	7439-96-5	
Molybdenum, Dissolved	49.4	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:02	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 16:59	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 16:59	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 16:59	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 16:59	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	280	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	280	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	405	mg/L	10.0	1		05/17/21 11:36		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/20/21 14:11		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14S	Lab ID: 50287286001	Collected: 05/12/21 12:00	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:14		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	11.2	mg/L	1.0	10		05/13/21 09:01	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	1.0	10		05/13/21 09:01	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:42		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 10:02	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/24/21 22:20		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14I	Lab ID: 50287286002	Collected: 05/12/21 12:50	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	90.7	mg/L	25.0	100		05/26/21 13:17	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/26/21 12:53	16984-48-8	
Sulfate	363	mg/L	25.0	100		05/26/21 13:17	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	316	ug/L	200	1	05/21/21 06:55	05/23/21 08:27	7429-90-5	
Barium	28.4	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:27	7440-39-3	
Boron	2010	ug/L	100	1	05/21/21 06:55	05/23/21 08:27	7440-42-8	
Calcium	172000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:27	7440-70-2	
Iron	572	ug/L	100	1	05/21/21 06:55	05/23/21 08:27	7439-89-6	
Lithium	26.5	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:27	7439-93-2	
Magnesium	37100	ug/L	1000	1	05/21/21 06:55	05/23/21 08:27	7439-95-4	
Manganese	134	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:27	7439-96-5	
Molybdenum	15.8	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:27	7439-98-7	
Potassium	4540	ug/L	1000	1	05/21/21 06:55	05/23/21 08:27	7440-09-7	
Silica	16100	ug/L	450	1	05/21/21 06:55	05/23/21 08:27	7631-86-9	N2
Sodium	93600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:27	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	113	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:04	7439-96-5	
Molybdenum, Dissolved	14.8	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:04	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:03	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:03	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:03	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:03	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	280	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	280	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	924	mg/L	20.0	1		05/17/21 11:40		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/20/21 14:15		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14I	Lab ID: 50287286002	Collected: 05/12/21 12:50	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:15		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:52	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:44		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 10:34	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 11:08		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14D	Lab ID: 50287286003	Collected: 05/12/21 14:10	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	91.1	mg/L	25.0	100		05/26/21 14:09	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/26/21 13:54	16984-48-8	
Sulfate	218	mg/L	25.0	100		05/26/21 14:09	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:29	7429-90-5	
Barium	62.1	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:29	7440-39-3	
Boron	4090	ug/L	100	1	05/21/21 06:55	05/23/21 08:29	7440-42-8	
Calcium	140000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:29	7440-70-2	
Iron	147	ug/L	100	1	05/21/21 06:55	05/23/21 08:29	7439-89-6	
Lithium	79.4	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:29	7439-93-2	
Magnesium	32700	ug/L	1000	1	05/21/21 06:55	05/23/21 08:29	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:29	7439-96-5	
Molybdenum	92.2	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:29	7439-98-7	
Potassium	5190	ug/L	1000	1	05/21/21 06:55	05/23/21 08:29	7440-09-7	
Silica	14900	ug/L	450	1	05/21/21 06:55	05/23/21 08:29	7631-86-9	N2
Sodium	78400	ug/L	1000	1	05/21/21 06:55	05/23/21 08:29	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:06	7439-96-5	
Molybdenum, Dissolved	89.0	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:06	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:08	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:08	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:08	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:08	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	268	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	268	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	710	mg/L	20.0	1		05/17/21 11:42		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/20/21 14:16		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-14D	Lab ID: 50287286003	Collected: 05/12/21 14:10	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:15		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:59	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:59	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:46		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 11:00	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 11:33		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-15I	Lab ID: 50287286004	Collected: 05/12/21 09:40	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	111	mg/L	2.5	10		05/26/21 14:42	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		05/26/21 14:26	16984-48-8	
Sulfate	223	mg/L	2.5	10		05/26/21 14:42	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:32	7429-90-5	
Barium	49.2	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:32	7440-39-3	
Boron	8100	ug/L	100	1	05/21/21 06:55	05/23/21 08:32	7440-42-8	
Calcium	78300	ug/L	1000	1	05/21/21 06:55	05/23/21 08:32	7440-70-2	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 08:32	7439-89-6	
Lithium	86.7	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:32	7439-93-2	
Magnesium	17600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:32	7439-95-4	
Manganese	87.7	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:32	7439-96-5	
Molybdenum	432	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:32	7439-98-7	
Potassium	9280	ug/L	1000	1	05/21/21 06:55	05/23/21 08:32	7440-09-7	
Silica	9870	ug/L	450	1	05/21/21 06:55	05/23/21 08:32	7631-86-9	N2
Sodium	124000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:32	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	85.8	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:08	7439-96-5	
Molybdenum, Dissolved	420	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:08	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:12	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:12	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:12	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:12	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	177	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	177	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	661	mg/L	10.0	1		05/17/21 11:43		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/20/21 14:17		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-15I	Lab ID: 50287286004	Collected: 05/12/21 09:40	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:15		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:30	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:30	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:46		
<b>5310C TOC</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 11:25	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 11:59		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-15D	Lab ID: 50287286005	Collected: 05/12/21 10:28	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	138	mg/L	25.0	100		05/27/21 16:21	16887-00-6	
Fluoride	0.15	mg/L	0.10	1		05/26/21 11:19	16984-48-8	
Sulfate	237	mg/L	2.5	10		05/26/21 11:35	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Aluminum	228	ug/L	200	1	05/21/21 06:55	05/23/21 08:34	7429-90-5	
Barium	64.0	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:34	7440-39-3	
Boron	5000	ug/L	100	1	05/21/21 06:55	05/23/21 08:34	7440-42-8	
Calcium	113000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:34	7440-70-2	
Iron	640	ug/L	100	1	05/21/21 06:55	05/23/21 08:34	7439-89-6	
Lithium	88.1	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:34	7439-93-2	
Magnesium	20800	ug/L	1000	1	05/21/21 06:55	05/23/21 08:34	7439-95-4	
Manganese	430	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:34	7439-96-5	
Molybdenum	190	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:34	7439-98-7	
Potassium	7560	ug/L	1000	1	05/21/21 06:55	05/23/21 08:34	7440-09-7	
Silica	12800	ug/L	450	1	05/21/21 06:55	05/23/21 08:34	7631-86-9	N2
Sodium	117000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:34	7440-23-5	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Manganese, Dissolved	390	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:11	7439-96-5	
Molybdenum, Dissolved	188	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:11	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:16	7440-36-0	
Arsenic	1.0	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:16	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:16	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:16	7782-49-2	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis						
Alkalinity, Total as CaCO3	186	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	186	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	738	mg/L	20.0	1		05/17/21 11:43		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/20/21 14:18		H3

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: MW-15D	Lab ID: 50287286005	Collected: 05/12/21 10:28	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:15		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:45	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:45	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:47		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 12:07	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 12:25		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: DUP2	Lab ID: 50287286006	Collected: 05/12/21 08:00	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	110	mg/L	2.5	10		05/26/21 12:08	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		05/26/21 11:51	16984-48-8	
Sulfate	221	mg/L	2.5	10		05/26/21 12:08	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:36	7429-90-5	
Barium	50.2	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:36	7440-39-3	
Boron	8240	ug/L	100	1	05/21/21 06:55	05/23/21 08:36	7440-42-8	
Calcium	79400	ug/L	1000	1	05/21/21 06:55	05/23/21 08:36	7440-70-2	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 08:36	7439-89-6	
Lithium	88.7	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:36	7439-93-2	
Magnesium	17700	ug/L	1000	1	05/21/21 06:55	05/23/21 08:36	7439-95-4	
Manganese	88.8	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:36	7439-96-5	
Molybdenum	438	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:36	7439-98-7	
Potassium	9460	ug/L	1000	1	05/21/21 06:55	05/23/21 08:36	7440-09-7	
Silica	10000	ug/L	450	1	05/21/21 06:55	05/23/21 08:36	7631-86-9	N2
Sodium	126000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:36	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	85.4	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:13	7439-96-5	
Molybdenum, Dissolved	430	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:13	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:21	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:21	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:21	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:21	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	177	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	177	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	660	mg/L	10.0	1		05/17/21 11:44		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/20/21 14:21		H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Sample: DUP2	Lab ID: 50287286006	Collected: 05/12/21 08:00	Received: 05/12/21 15:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 11:48	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:15		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:28	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:28	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:47		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 13:58	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 12:51		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch:	622495	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2868814 Matrix: Water  
Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/26/21 01:15	
Fluoride	mg/L	ND	0.10	05/26/21 01:15	
Sulfate	mg/L	ND	0.25	05/26/21 01:15	

LABORATORY CONTROL SAMPLE: 2868815

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	0.48	96	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868816 2868817

Parameter	Units	50287273021		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Chloride	mg/L	98.4	12.5	12.5	115	114	130	129	80-120	0	15	M0			
Fluoride	mg/L	1.0	0.5	0.5	1.6	1.5	107	99	80-120	3	15				
Sulfate	mg/L	ND	2.5	2.5	2.4	2.5	96	99	80-120	3	15				

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 621184 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2862875 Matrix: Water

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/23/21 08:18	
Barium	ug/L	ND	10.0	05/23/21 08:18	
Boron	ug/L	ND	100	05/23/21 08:18	
Calcium	ug/L	ND	1000	05/23/21 08:18	
Iron	ug/L	ND	100	05/23/21 08:18	
Lithium	ug/L	ND	20.0	05/23/21 08:18	
Magnesium	ug/L	ND	1000	05/23/21 08:18	
Manganese	ug/L	ND	10.0	05/23/21 08:18	
Molybdenum	ug/L	ND	10.0	05/23/21 08:18	
Potassium	ug/L	ND	1000	05/23/21 08:18	
Silica	ug/L	ND	450	05/23/21 08:18	N2
Sodium	ug/L	ND	1000	05/23/21 08:18	

LABORATORY CONTROL SAMPLE: 2862876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1060	106	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lithium	ug/L	1000	972	97	80-120	
Magnesium	ug/L	10000	9740	97	80-120	
Manganese	ug/L	1000	991	99	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10100	95		N2
Sodium	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862877 2862878

Parameter	Units	2862877		2862878		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50287430003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10600	10400	106	104	75-125	2	20	
Barium	ug/L	122	1000	1000	1170	1140	105	102	75-125	2	20	
Boron	ug/L	114	1000	1000	1210	1190	110	108	75-125	1	20	
Calcium	ug/L	121000	10000	10000	131000	129000	99	73	75-125	2	20	P6

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Parameter	Units	2862877		2862878		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287430003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Iron	ug/L	ND	10000	10000	10400	10300	103	102	75-125	1	20		
Lithium	ug/L	ND	1000	1000	1040	1010	103	101	75-125	2	20		
Magnesium	ug/L	30200	10000	10000	40300	39300	101	91	75-125	3	20		
Manganese	ug/L	232	1000	1000	1250	1230	102	100	75-125	2	20		
Molybdenum	ug/L	ND	1000	1000	1070	1050	106	105	75-125	2	20		
Potassium	ug/L	2970	10000	10000	13700	13500	108	106	75-125	1	20		
Silica	ug/L	14600	10700	10700	25400	24700	101	94		3		N2	
Sodium	ug/L	26800	10000	10000	37900	36900	111	101	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 621086 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2862545 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/21/21 03:36	
Molybdenum, Dissolved	ug/L	ND	10.0	05/21/21 03:36	

LABORATORY CONTROL SAMPLE: 2862546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	941	94	80-120	
Molybdenum, Dissolved	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862547 2862548

Parameter	Units	50287228003 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	1640	1000	1000	2580	2550	94	92	75-125	1	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1000	101	100	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 621233 Analysis Method: EPA 6020  
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2862975 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/20/21 21:03	
Arsenic	ug/L	ND	1.0	05/20/21 21:03	
Cobalt	ug/L	ND	1.0	05/20/21 21:03	
Selenium	ug/L	ND	1.0	05/20/21 21:03	

LABORATORY CONTROL SAMPLE: 2862976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.0	105	80-120	
Arsenic	ug/L	40	40.4	101	80-120	
Cobalt	ug/L	40	42.2	106	80-120	
Selenium	ug/L	40	43.0	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862977 2862978

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286550001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.3	36.8	103	92	75-125	11	20
Arsenic	ug/L	ND	40	40	40.5	36.3	101	90	75-125	11	20
Cobalt	ug/L	ND	40	40	39.4	35.5	98	88	75-125	10	20
Selenium	ug/L	ND	40	40	38.3	34.5	96	86	75-125	10	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 620758 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2860903 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/14/21 15:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/14/21 15:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/14/21 15:20	

LABORATORY CONTROL SAMPLE: 2860904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.7	97	90-110	

SAMPLE DUPLICATE: 2860905

Parameter	Units	50287273027 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	314	320	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	300	305	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	13.8	14.6	6	20	

SAMPLE DUPLICATE: 2860906

Parameter	Units	50287273028 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	271	278	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	271	278	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch:	621009	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2862224 Matrix: Water

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/17/21 11:28	

LABORATORY CONTROL SAMPLE: 2862225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2862226

Parameter	Units	50287512012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	307	1	10	

SAMPLE DUPLICATE: 2862227

Parameter	Units	50287512013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	382	5	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

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QC Batch:	621825	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: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

SAMPLE DUPLICATE: 2865579

Parameter	Units	50286556011 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

SAMPLE DUPLICATE: 2865580

Parameter	Units	50287286001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	0	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 620460 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: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2859280 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/13/21 11:48	

LABORATORY CONTROL SAMPLE: 2859281

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: 2859282 2859283

Parameter	Units	50287193003		50287286002		50287286003		50287286004		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	98	96	90-110	2	20		

MATRIX SPIKE SAMPLE: 2859284

Parameter	Units	50287228002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.47	94	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 620728 Analysis Method: HACH 8146  
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2860776 Matrix: Water

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:11	H3,N2

LABORATORY CONTROL SAMPLE: 2860777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	103	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860778 2860779

Parameter	Units	50287175004		2860779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	106	106	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2860780

Parameter	Units	50287176003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	0.20	1	1.2	98	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 620452	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: 50287286004, 50287286006

METHOD BLANK: 2859241 Matrix: Water

Associated Lab Samples: 50287286004, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/13/21 07:50	
Nitrogen, Nitrite	mg/L	ND	0.10	05/13/21 07:50	

LABORATORY CONTROL SAMPLE: 2859242

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	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859243 2859244

Parameter	Units	50287175004		2859243		2859244		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	107	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	108	111	90-110	2	20 M0

MATRIX SPIKE SAMPLE: 2859245

Parameter	Units	50287228002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.22	1	0.98	76	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.96	95	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 620453 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: 50287286001, 50287286002, 50287286003, 50287286005

METHOD BLANK: 2859246 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/13/21 08:35	
Nitrogen, Nitrite	mg/L	ND	0.10	05/13/21 08:35	

LABORATORY CONTROL SAMPLE: 2859247

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	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859248 2859249

Parameter	Units	50287287001 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	1.3	1	1	2.3	2.4	105	107	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.2	108	112	90-110	3	20	M0

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 621769 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: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2865276 Matrix: Water  
 Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/20/21 16:41	

LABORATORY CONTROL SAMPLE: 2865277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865278 2865279

Parameter	Units	50287286001 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	1.6				0		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287286

QC Batch: 621779      Analysis Method: SM 5310C  
QC Batch Method: SM 5310C      Analysis Description: 5310C Total Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2865318      Matrix: Water  
Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/21/21 06:16	

LABORATORY CONTROL SAMPLE: 2865319

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: 2865320      2865321

Parameter	Units	50287286005 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	8.9	8.8	89	88	80-120	1	20	

MATRIX SPIKE SAMPLE: 2865322

Parameter	Units	50287287004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.3	97	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287286

QC Batch: 622388	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286001

METHOD BLANK: 2868396 Matrix: Water

Associated Lab Samples: 50287286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/24/21 10:51	

LABORATORY CONTROL SAMPLE: 2868397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868398 2868399

Parameter	Units	50287175004		2868398		2868399		% 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	9.7	9.6	97	96	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868400 2868401

Parameter	Units	50287193003		2868400		2868401		% 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	9.5	9.4	95	94	80-120	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch:	622484	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2868750 Matrix: Water

Associated Lab Samples: 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/25/21 10:16	

LABORATORY CONTROL SAMPLE: 2868751

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: 2868752 2868753

Parameter	Units	2868752		2868753		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287287004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dissolved Organic Carbon	mg/L	2.1	10	10	11.4	11.1	93	90	80-120	2	20

MATRIX SPIKE SAMPLE: 2868754

Parameter	Units	50287318003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	27.8	10	37.0	93	80-120	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: MW-14S**      **Lab ID: 50287286001**      Collected: 05/12/21 12:00      Received: 05/12/21 15:24      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	<b>-0.0992 ± 0.238 (0.596)</b> <b>C:NA T:106%</b>	pCi/L	06/18/21 12:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.484 ± 0.444 (0.911)</b> <b>C:69% T:89%</b>	pCi/L	06/17/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.484 ± 0.682 (1.51)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: MW-141**      **Lab ID: 50287286002**      Collected: 05/12/21 12:50      Received: 05/12/21 15:24      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	<b>-0.156 ± 0.368 (0.825)</b> <b>C:NA T:102%</b>	pCi/L	06/18/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.456 ± 0.495 (1.04)</b> <b>C:68% T:89%</b>	pCi/L	06/17/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.456 ± 0.863 (1.87)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: MW-14D**      **Lab ID: 50287286003**      Collected: 05/12/21 14:10      Received: 05/12/21 15:24      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	<b>0.0546 ± 0.321 (0.656)</b> <b>C:NA T:99%</b>	pCi/L	06/18/21 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.0844 ± 0.396 (0.900)</b> <b>C:68% T:86%</b>	pCi/L	06/17/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.139 ± 0.717 (1.56)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: MW-151**      **Lab ID: 50287286004**      Collected: 05/12/21 09:40      Received: 05/12/21 15:24      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	<b>0.750 ± 0.526 (0.693)</b> <b>C:NA T:96%</b>	pCi/L	06/18/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.323 ± 0.418 (0.892)</b> <b>C:68% T:91%</b>	pCi/L	06/17/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.07 ± 0.944 (1.59)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: MW-15D**      **Lab ID: 50287286005**      Collected: 05/12/21 10:28      Received: 05/12/21 15:24      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	<b>0.484 ± 0.379 (0.445)</b> <b>C:NA T:98%</b>	pCi/L	06/18/21 12:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.723 ± 0.474 (0.910)</b> <b>C:69% T:85%</b>	pCi/L	06/17/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.21 ± 0.853 (1.36)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

**Sample: DUP2**      **Lab ID: 50287286006**      Collected: 05/12/21 08:00      Received: 05/12/21 15:24      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	<b>0.730 ± 0.508 (0.684)</b> <b>C:NA T:99%</b>	pCi/L	06/18/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.57 ± 0.601 (0.944)</b> <b>C:65% T:89%</b>	pCi/L	06/17/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.30 ± 1.11 (1.63)</b>	pCi/L	06/22/21 15:46	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 451192

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: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2177977

Matrix: Water

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.244 (0.529) C:NA T:101%	pCi/L	06/18/21 11:55	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

QC Batch: 451193

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: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

METHOD BLANK: 2177978

Matrix: Water

Associated Lab Samples: 50287286001, 50287286002, 50287286003, 50287286004, 50287286005, 50287286006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.459 ± 0.355 (0.701) C:67% T:93%	pCi/L	06/17/21 11:05	

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: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287286001	MW-14S	EPA 9056	622495		
50287286002	MW-14I	EPA 9056	622495		
50287286003	MW-14D	EPA 9056	622495		
50287286004	MW-15I	EPA 9056	622495		
50287286005	MW-15D	EPA 9056	622495		
50287286006	DUP2	EPA 9056	622495		
50287286001	MW-14S	EPA 3010	621184	EPA 6010	622272
50287286002	MW-14I	EPA 3010	621184	EPA 6010	622272
50287286003	MW-14D	EPA 3010	621184	EPA 6010	622272
50287286004	MW-15I	EPA 3010	621184	EPA 6010	622272
50287286005	MW-15D	EPA 3010	621184	EPA 6010	622272
50287286006	DUP2	EPA 3010	621184	EPA 6010	622272
50287286001	MW-14S	EPA 3010	621086	EPA 6010	621976
50287286002	MW-14I	EPA 3010	621086	EPA 6010	621976
50287286003	MW-14D	EPA 3010	621086	EPA 6010	621976
50287286004	MW-15I	EPA 3010	621086	EPA 6010	621976
50287286005	MW-15D	EPA 3010	621086	EPA 6010	621976
50287286006	DUP2	EPA 3010	621086	EPA 6010	621976
50287286001	MW-14S	EPA 200.2	621233	EPA 6020	621600
50287286002	MW-14I	EPA 200.2	621233	EPA 6020	621600
50287286003	MW-14D	EPA 200.2	621233	EPA 6020	621600
50287286004	MW-15I	EPA 200.2	621233	EPA 6020	621600
50287286005	MW-15D	EPA 200.2	621233	EPA 6020	621600
50287286006	DUP2	EPA 200.2	621233	EPA 6020	621600
50287286001	MW-14S	EPA 903.1	451192		
50287286002	MW-14I	EPA 903.1	451192		
50287286003	MW-14D	EPA 903.1	451192		
50287286004	MW-15I	EPA 903.1	451192		
50287286005	MW-15D	EPA 903.1	451192		
50287286006	DUP2	EPA 903.1	451192		
50287286001	MW-14S	EPA 904.0	451193		
50287286002	MW-14I	EPA 904.0	451193		
50287286003	MW-14D	EPA 904.0	451193		
50287286004	MW-15I	EPA 904.0	451193		
50287286005	MW-15D	EPA 904.0	451193		
50287286006	DUP2	EPA 904.0	451193		
50287286001	MW-14S	Total Radium Calculation	453576		
50287286002	MW-14I	Total Radium Calculation	453576		
50287286003	MW-14D	Total Radium Calculation	453576		
50287286004	MW-15I	Total Radium Calculation	453576		
50287286005	MW-15D	Total Radium Calculation	453576		
50287286006	DUP2	Total Radium Calculation	453576		
50287286001	MW-14S	SM 2320B	620758		
50287286002	MW-14I	SM 2320B	620758		
50287286003	MW-14D	SM 2320B	620758		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287286004	MW-15I	SM 2320B	620758		
50287286005	MW-15D	SM 2320B	620758		
50287286006	DUP2	SM 2320B	620758		
50287286001	MW-14S	SM 2540C	621009		
50287286002	MW-14I	SM 2540C	621009		
50287286003	MW-14D	SM 2540C	621009		
50287286004	MW-15I	SM 2540C	621009		
50287286005	MW-15D	SM 2540C	621009		
50287286006	DUP2	SM 2540C	621009		
50287286001	MW-14S	SM 4500-H+B	621825		
50287286002	MW-14I	SM 4500-H+B	621825		
50287286003	MW-14D	SM 4500-H+B	621825		
50287286004	MW-15I	SM 4500-H+B	621825		
50287286005	MW-15D	SM 4500-H+B	621825		
50287286006	DUP2	SM 4500-H+B	621825		
50287286001	MW-14S	SM 4500-S2-D	620460		
50287286002	MW-14I	SM 4500-S2-D	620460		
50287286003	MW-14D	SM 4500-S2-D	620460		
50287286004	MW-15I	SM 4500-S2-D	620460		
50287286005	MW-15D	SM 4500-S2-D	620460		
50287286006	DUP2	SM 4500-S2-D	620460		
50287286001	MW-14S	HACH 8146	620728		
50287286002	MW-14I	HACH 8146	620728		
50287286003	MW-14D	HACH 8146	620728		
50287286004	MW-15I	HACH 8146	620728		
50287286005	MW-15D	HACH 8146	620728		
50287286006	DUP2	HACH 8146	620728		
50287286001	MW-14S	EPA 353.2	620453		
50287286002	MW-14I	EPA 353.2	620453		
50287286003	MW-14D	EPA 353.2	620453		
50287286004	MW-15I	EPA 353.2	620452		
50287286005	MW-15D	EPA 353.2	620453		
50287286006	DUP2	EPA 353.2	620452		
50287286001	MW-14S	EPA 365.1	621769	EPA 365.1	621930
50287286002	MW-14I	EPA 365.1	621769	EPA 365.1	621930
50287286003	MW-14D	EPA 365.1	621769	EPA 365.1	621930
50287286004	MW-15I	EPA 365.1	621769	EPA 365.1	621930
50287286005	MW-15D	EPA 365.1	621769	EPA 365.1	621930
50287286006	DUP2	EPA 365.1	621769	EPA 365.1	621930
50287286001	MW-14S	SM 5310C	621779		
50287286002	MW-14I	SM 5310C	621779		
50287286003	MW-14D	SM 5310C	621779		
50287286004	MW-15I	SM 5310C	621779		
50287286005	MW-15D	SM 5310C	621779		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287286006	DUP2	SM 5310C	621779		
50287286001	MW-14S	SM 5310C	622388		
50287286002	MW-14I	SM 5310C	622484		
50287286003	MW-14D	SM 5310C	622484		
50287286004	MW-15I	SM 5310C	622484		
50287286005	MW-15D	SM 5310C	622484		
50287286006	DUP2	SM 5310C	622484		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MWJ 8/12/21 1625

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: 11/4.3 46/4.4 50/4.4 52/4.6  
 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)?			Circle: <u>HNO3 (&lt;2) H2SO4 (&lt;2) NaOH (&gt;10) NaOH/ZnAc (&gt;9)</u>			
Analysis:	<input checked="" type="checkbox"/>		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			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		<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 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	<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:

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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			1	1	1	1	1	1		1					1			
3											1			1	1	1	1	1	1		1					1			
4																													
5											1			2	1	2	1	1	1		1					5	✓	✓	
6											1			2	1	2	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	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



July 27, 2021

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

RE: Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287287

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 12, 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: Eagle Valley Profile1 Report1  
Pace Project No.: 50287287

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287287001	MW-3S	Water	05/12/21 09:40	05/12/21 13:46
50287287002	MW-4I	Water	05/12/21 13:10	05/12/21 13:46
50287287003	MW-4D	Water	05/12/21 12:13	05/12/21 13:46
50287287004	MW-8S	Water	05/12/21 10:55	05/12/21 13:46

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287287001	MW-3S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	KJE	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	6	PASI-I		
		EPA 7470	ILP	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	SWJ	1	PASI-I		
		SM 4500-S2-D	SWJ	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		
		50287287002	MW-4I	EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
EPA 6010	JPK			2	PASI-I		
EPA 6020	RAM			6	PASI-I		
EPA 7470	ILP			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	SWJ			1	PASI-I		
SM 4500-S2-D	SWJ			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		
50287287003	MW-4D			EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
		EPA 6010	JPK	2	PASI-I		

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	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	SWJ	1	PASI-I
		SM 4500-S2-D	SWJ	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
50287287004	MW-8S	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	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	SWJ	1	PASI-I
		SM 4500-S2-D	SWJ	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

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287287001</b>	<b>MW-3S</b>					
EPA 9056	Chloride	176	mg/L	5.0	05/26/21 04:41	
EPA 9056	Fluoride	0.30	mg/L	0.10	05/26/21 04:25	
EPA 9056	Sulfate	172	mg/L	5.0	05/26/21 04:41	
EPA 6010	Barium	114	ug/L	10.0	05/23/21 08:38	
EPA 6010	Boron	293	ug/L	100	05/23/21 08:38	
EPA 6010	Calcium	109000	ug/L	1000	05/23/21 08:38	
EPA 6010	Magnesium	27800	ug/L	1000	05/23/21 08:38	
EPA 6010	Manganese	538	ug/L	10.0	05/23/21 08:38	
EPA 6010	Molybdenum	56.0	ug/L	10.0	05/23/21 08:38	
EPA 6010	Potassium	7380	ug/L	1000	05/23/21 08:38	
EPA 6010	Silica	12600	ug/L	450	05/23/21 08:38	N2
EPA 6010	Sodium	124000	ug/L	1000	05/23/21 08:38	
EPA 6010	Manganese, Dissolved	482	ug/L	10.0	05/21/21 04:15	
EPA 6010	Molybdenum, Dissolved	52.9	ug/L	10.0	05/21/21 04:15	
EPA 903.1	Radium-226	0.322 ± 0.557 (0.972)	pCi/L		06/18/21 11:55	
EPA 904.0	Radium-228	C:NA T:97% -0.357 ± 0.752 (1.78)	pCi/L		06/17/21 14:36	
		C:63% T:85%				
Total Radium Calculation	Total Radium	0.322 ± 1.31 (2.75)	pCi/L		06/22/21 15:45	
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	225	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	692	mg/L	20.0	05/17/21 11:45	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/20/21 13:13	H3
EPA 353.2	Nitrogen, Nitrate	1.3	mg/L	0.10	05/13/21 08:39	
<b>50287287002</b>	<b>MW-4I</b>					
EPA 9056	Chloride	82.0	mg/L	5.0	05/26/21 05:14	
EPA 9056	Fluoride	0.40	mg/L	0.10	05/26/21 04:57	
EPA 9056	Sulfate	64.4	mg/L	5.0	05/26/21 05:14	
EPA 6010	Barium	69.2	ug/L	10.0	05/23/21 08:40	
EPA 6010	Boron	191	ug/L	100	05/23/21 08:40	
EPA 6010	Calcium	72200	ug/L	1000	05/23/21 08:40	
EPA 6010	Iron	541	ug/L	100	05/23/21 08:40	
EPA 6010	Magnesium	22500	ug/L	1000	05/23/21 08:40	
EPA 6010	Manganese	149	ug/L	10.0	05/23/21 08:40	
EPA 6010	Molybdenum	12.6	ug/L	10.0	05/23/21 08:40	
EPA 6010	Potassium	3350	ug/L	1000	05/23/21 08:40	
EPA 6010	Silica	10300	ug/L	450	05/23/21 08:40	N2
EPA 6010	Sodium	64600	ug/L	1000	05/23/21 08:40	
EPA 6010	Manganese, Dissolved	138	ug/L	10.0	05/21/21 04:21	
EPA 6010	Molybdenum, Dissolved	11.9	ug/L	10.0	05/21/21 04:21	
EPA 6020	Arsenic	1.4	ug/L	1.0	05/21/21 17:38	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287287002</b>	<b>MW-4I</b>					
EPA 903.1	Radium-226	0.562 ± 0.393 (0.474) C:NA T:101%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	0.555 ± 0.401 (0.782) C:72% T:89%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	1.12 ± 0.794 (1.26)	pCi/L		06/22/21 15:45	
SM 2320B	Alkalinity, Total as CaCO3	215	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	215	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	412	mg/L	10.0	05/17/21 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/20/21 13:14	H3
HACH 8146	Iron, Ferrous	0.32	mg/L	0.20	05/14/21 14:49	H3,N2
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	05/25/21 13:43	
<b>50287287003</b>	<b>MW-4D</b>					
EPA 9056	Chloride	90.7	mg/L	5.0	05/26/21 05:47	
EPA 9056	Fluoride	0.31	mg/L	0.10	05/26/21 05:30	
EPA 9056	Sulfate	78.0	mg/L	5.0	05/26/21 05:47	
EPA 6010	Barium	66.5	ug/L	10.0	05/23/21 08:43	
EPA 6010	Boron	140	ug/L	100	05/23/21 08:43	
EPA 6010	Calcium	74300	ug/L	1000	05/23/21 08:43	
EPA 6010	Iron	1200	ug/L	100	05/23/21 08:43	
EPA 6010	Magnesium	23300	ug/L	1000	05/23/21 08:43	
EPA 6010	Manganese	214	ug/L	10.0	05/23/21 08:43	
EPA 6010	Molybdenum	12.6	ug/L	10.0	05/23/21 08:43	
EPA 6010	Potassium	3230	ug/L	1000	05/23/21 08:43	
EPA 6010	Silica	11000	ug/L	450	05/23/21 08:43	N2
EPA 6010	Sodium	67400	ug/L	1000	05/23/21 08:43	
EPA 6010	Manganese, Dissolved	204	ug/L	10.0	05/21/21 04:23	
EPA 6010	Molybdenum, Dissolved	12.6	ug/L	10.0	05/21/21 04:23	
EPA 6020	Arsenic	5.0	ug/L	1.0	05/21/21 17:43	
EPA 903.1	Radium-226	0.157 ± 0.469 (0.870) C:NA T:99%	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	0.529 ± 0.438 (0.884) C:71% T:89%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	0.686 ± 0.907 (1.75)	pCi/L		06/22/21 15:45	
SM 2320B	Alkalinity, Total as CaCO3	217	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	217	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	468	mg/L	10.0	05/17/21 11:46	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287287003</b>	<b>MW-4D</b>					
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/20/21 13:15	H3
HACH 8146	Iron, Ferrous	0.84	mg/L	0.20	05/14/21 14:50	H3,N2
<b>50287287004</b>	<b>MW-8S</b>					
EPA 9056	Chloride	239	mg/L	50.0	05/26/21 18:09	
EPA 9056	Fluoride	0.44	mg/L	0.10	05/26/21 06:03	
EPA 9056	Sulfate	533	mg/L	50.0	05/26/21 18:09	
EPA 6010	Barium	106	ug/L	10.0	05/23/21 08:45	
EPA 6010	Boron	1590	ug/L	100	05/23/21 08:45	
EPA 6010	Calcium	203000	ug/L	5000	05/24/21 14:33	
EPA 6010	Lithium	50.1	ug/L	20.0	05/23/21 08:45	
EPA 6010	Magnesium	47900	ug/L	1000	05/23/21 08:45	
EPA 6010	Manganese	77.1	ug/L	10.0	05/23/21 08:45	
EPA 6010	Molybdenum	139	ug/L	10.0	05/23/21 08:45	
EPA 6010	Potassium	12500	ug/L	1000	05/23/21 08:45	
EPA 6010	Silica	17700	ug/L	450	05/23/21 08:45	N2
EPA 6010	Sodium	192000	ug/L	1000	05/23/21 08:45	
EPA 6010	Manganese, Dissolved	72.1	ug/L	10.0	05/21/21 04:25	
EPA 6010	Molybdenum, Dissolved	136	ug/L	10.0	05/21/21 04:25	
EPA 6020	Arsenic	4.8	ug/L	1.0	05/21/21 17:47	
EPA 903.1	Radium-226	0.0595 ± 0.272 (0.553)	pCi/L		06/18/21 12:18	
EPA 904.0	Radium-228	C:NA T:91% 0.514 ± 0.544 (1.13) C:64% T:94%	pCi/L		06/17/21 14:12	
Total Radium Calculation	Total Radium	0.574 ± 0.816 (1.68)	pCi/L		06/22/21 15:45	
SM 2320B	Alkalinity, Total as CaCO3	211	mg/L	2.0	05/14/21 15:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	211	mg/L	2.0	05/14/21 15:20	
SM 2540C	Total Dissolved Solids	1410	mg/L	20.0	05/17/21 11:47	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/20/21 13:19	H3
EPA 365.1	Phosphate as P04	0.88	mg/L	0.15	05/20/21 16:50	
SM 5310C	Dissolved Organic Carbon	2.1	mg/L	1.0	05/25/21 15:21	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-3S	Lab ID: 50287287001	Collected: 05/12/21 09:40	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	176	mg/L	5.0	20		05/26/21 04:41	16887-00-6	
Fluoride	0.30	mg/L	0.10	1		05/26/21 04:25	16984-48-8	
Sulfate	172	mg/L	5.0	20		05/26/21 04:41	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:38	7429-90-5	
Barium	114	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:38	7440-39-3	
Boron	293	ug/L	100	1	05/21/21 06:55	05/23/21 08:38	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 08:38	7440-43-9	
Calcium	109000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:38	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:38	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 08:38	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:38	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:38	7439-93-2	
Magnesium	27800	ug/L	1000	1	05/21/21 06:55	05/23/21 08:38	7439-95-4	
Manganese	538	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:38	7439-96-5	
Molybdenum	56.0	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:38	7439-98-7	
Potassium	7380	ug/L	1000	1	05/21/21 06:55	05/23/21 08:38	7440-09-7	
Silica	12600	ug/L	450	1	05/21/21 06:55	05/23/21 08:38	7631-86-9	N2
Sodium	124000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:38	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	482	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:15	7439-96-5	
Molybdenum, Dissolved	52.9	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:15	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:34	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:34	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/19/21 08:29	05/21/21 17:34	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:34	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:34	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:34	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/20/21 09:43	05/21/21 08:24	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	225	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	225	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-3S	Lab ID: 50287287001	Collected: 05/12/21 09:40	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	692	mg/L	20.0	1		05/17/21 11:45		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/20/21 13:13		H3
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/13/21 12:51	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:49		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.3	mg/L	0.10	1		05/13/21 08:39	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:39	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:48		
<b>5310C TOC</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 14:24	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 13:17		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-4I	Lab ID: 50287287002	Collected: 05/12/21 13:10	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	82.0	mg/L	5.0	20		05/26/21 05:14	16887-00-6	
Fluoride	0.40	mg/L	0.10	1		05/26/21 04:57	16984-48-8	
Sulfate	64.4	mg/L	5.0	20		05/26/21 05:14	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:40	7429-90-5	
Barium	69.2	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:40	7440-39-3	
Boron	191	ug/L	100	1	05/21/21 06:55	05/23/21 08:40	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 08:40	7440-43-9	
Calcium	72200	ug/L	1000	1	05/21/21 06:55	05/23/21 08:40	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:40	7440-47-3	
Iron	541	ug/L	100	1	05/21/21 06:55	05/23/21 08:40	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:40	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:40	7439-93-2	
Magnesium	22500	ug/L	1000	1	05/21/21 06:55	05/23/21 08:40	7439-95-4	
Manganese	149	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:40	7439-96-5	
Molybdenum	12.6	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:40	7439-98-7	
Potassium	3350	ug/L	1000	1	05/21/21 06:55	05/23/21 08:40	7440-09-7	
Silica	10300	ug/L	450	1	05/21/21 06:55	05/23/21 08:40	7631-86-9	N2
Sodium	64600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:40	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	138	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:21	7439-96-5	
Molybdenum, Dissolved	11.9	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:21	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:38	7440-36-0	
Arsenic	1.4	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:38	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/19/21 08:29	05/21/21 17:38	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:38	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:38	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:38	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/20/21 09:43	05/21/21 08:26	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	215	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	215	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-4I	Lab ID: 50287287002	Collected: 05/12/21 13:10	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	412	mg/L	10.0	1		05/17/21 11:46		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/20/21 13:14		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 12:51	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	0.32	mg/L	0.20	1		05/14/21 14:49		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:58	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:58	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:49		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 14:49	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	1		05/25/21 13:43		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-4D	Lab ID: 50287287003	Collected: 05/12/21 12:13	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	90.7	mg/L	5.0	20		05/26/21 05:47	16887-00-6	
Fluoride	0.31	mg/L	0.10	1		05/26/21 05:30	16984-48-8	
Sulfate	78.0	mg/L	5.0	20		05/26/21 05:47	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:43	7429-90-5	
Barium	66.5	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:43	7440-39-3	
Boron	140	ug/L	100	1	05/21/21 06:55	05/23/21 08:43	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 08:43	7440-43-9	
Calcium	74300	ug/L	1000	1	05/21/21 06:55	05/23/21 08:43	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:43	7440-47-3	
Iron	1200	ug/L	100	1	05/21/21 06:55	05/23/21 08:43	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:43	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:43	7439-93-2	
Magnesium	23300	ug/L	1000	1	05/21/21 06:55	05/23/21 08:43	7439-95-4	
Manganese	214	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:43	7439-96-5	
Molybdenum	12.6	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:43	7439-98-7	
Potassium	3230	ug/L	1000	1	05/21/21 06:55	05/23/21 08:43	7440-09-7	
Silica	11000	ug/L	450	1	05/21/21 06:55	05/23/21 08:43	7631-86-9	N2
Sodium	67400	ug/L	1000	1	05/21/21 06:55	05/23/21 08:43	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	204	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:23	7439-96-5	
Molybdenum, Dissolved	12.6	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:23	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:43	7440-36-0	
Arsenic	5.0	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:43	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/19/21 08:29	05/21/21 17:43	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:43	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:43	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:43	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/20/21 09:43	05/21/21 08:36	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	217	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	217	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-4D	Lab ID: 50287287003	Collected: 05/12/21 12:13	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>468</b>	mg/L	10.0	1		05/17/21 11:46		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.9</b>	Std. Units	0.10	1		05/20/21 13:15		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 12:51	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	<b>0.84</b>	mg/L	0.20	1		05/14/21 14:50		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 09:03	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 09:03	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:49		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 15:15	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/25/21 14:09		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-8S	Lab ID: 50287287004	Collected: 05/12/21 10:55	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	239	mg/L	50.0	200		05/26/21 18:09	16887-00-6	
Fluoride	0.44	mg/L	0.10	1		05/26/21 06:03	16984-48-8	
Sulfate	533	mg/L	50.0	200		05/26/21 18:09	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:45	7429-90-5	
Barium	106	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:45	7440-39-3	
Boron	1590	ug/L	100	1	05/21/21 06:55	05/23/21 08:45	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 08:45	7440-43-9	
Calcium	203000	ug/L	5000	5	05/21/21 06:55	05/24/21 14:33	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:45	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 08:45	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:45	7439-92-1	
Lithium	50.1	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:45	7439-93-2	
Magnesium	47900	ug/L	1000	1	05/21/21 06:55	05/23/21 08:45	7439-95-4	
Manganese	77.1	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:45	7439-96-5	
Molybdenum	139	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:45	7439-98-7	
Potassium	12500	ug/L	1000	1	05/21/21 06:55	05/23/21 08:45	7440-09-7	
Silica	17700	ug/L	450	1	05/21/21 06:55	05/23/21 08:45	7631-86-9	N2
Sodium	192000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:45	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	72.1	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:25	7439-96-5	
Molybdenum, Dissolved	136	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:25	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:47	7440-36-0	
Arsenic	4.8	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:47	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/19/21 08:29	05/21/21 17:47	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:47	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:47	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/19/21 08:29	05/21/21 17:47	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/20/21 09:43	05/21/21 08:38	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	211	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Bicarbonate (CaCO3)	211	mg/L	2.0	1		05/14/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/14/21 15:20		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Sample: MW-8S	Lab ID: 50287287004	Collected: 05/12/21 10:55	Received: 05/12/21 13:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>1410</b>	mg/L	20.0	1		05/17/21 11:47		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.8</b>	Std. Units	0.10	1		05/20/21 13:19		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/13/21 12:51	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:50		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/13/21 08:46	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/13/21 08:46	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	<b>0.88</b>	mg/L	0.15	1	05/20/21 13:00	05/20/21 16:50		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/21/21 15:56	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>2.1</b>	mg/L	1.0	1		05/25/21 15:21		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 622697 Analysis Method: EPA 9056  
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2869519 Matrix: Water  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/26/21 03:52	
Fluoride	mg/L	ND	0.10	05/26/21 03:52	
Sulfate	mg/L	ND	0.25	05/26/21 03:52	

LABORATORY CONTROL SAMPLE: 2869520

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	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869521 2869522

Parameter	Units	50286550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	137	125	125	249	249	90	90	80-120	0	15	
Fluoride	mg/L	0.13	0.5	0.5	0.60	0.60	94	94	80-120	0	15	
Sulfate	mg/L	465	250	250	666	665	81	80	80-120	0	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 620591	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2859818 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/21/21 07:29	

LABORATORY CONTROL SAMPLE: 2859819

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: 2859820 2859821

Parameter	Units	50286550002		2859821		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	5.1	4.9	102	98	75-125	5	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	621184	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2862875 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/23/21 08:18	
Barium	ug/L	ND	10.0	05/23/21 08:18	
Boron	ug/L	ND	100	05/23/21 08:18	
Cadmium	ug/L	ND	2.0	05/23/21 08:18	
Calcium	ug/L	ND	1000	05/23/21 08:18	
Chromium	ug/L	ND	10.0	05/23/21 08:18	
Iron	ug/L	ND	100	05/23/21 08:18	
Lead	ug/L	ND	10.0	05/23/21 08:18	
Lithium	ug/L	ND	20.0	05/23/21 08:18	
Magnesium	ug/L	ND	1000	05/23/21 08:18	
Manganese	ug/L	ND	10.0	05/23/21 08:18	
Molybdenum	ug/L	ND	10.0	05/23/21 08:18	
Potassium	ug/L	ND	1000	05/23/21 08:18	
Silica	ug/L	ND	450	05/23/21 08:18	N2
Sodium	ug/L	ND	1000	05/23/21 08:18	

LABORATORY CONTROL SAMPLE: 2862876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1060	106	80-120	
Cadmium	ug/L	1000	994	99	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	998	100	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	972	97	80-120	
Magnesium	ug/L	10000	9740	97	80-120	
Manganese	ug/L	1000	991	99	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10100	95		N2
Sodium	ug/L	10000	10200	102	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2862877		2862878							
Parameter	Units	50287430003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	ug/L	ND	10000	10000	10600	10400	106	104	75-125	2	20
Barium	ug/L	122	1000	1000	1170	1140	105	102	75-125	2	20
Boron	ug/L	114	1000	1000	1210	1190	110	108	75-125	1	20
Cadmium	ug/L	ND	1000	1000	1050	1030	105	103	75-125	2	20
Calcium	ug/L	121000	10000	10000	131000	129000	99	73	75-125	2	20 P6
Chromium	ug/L	ND	1000	1000	1040	1010	104	101	75-125	2	20
Iron	ug/L	ND	10000	10000	10400	10300	103	102	75-125	1	20
Lead	ug/L	ND	1000	1000	979	959	98	96	75-125	2	20
Lithium	ug/L	ND	1000	1000	1040	1010	103	101	75-125	2	20
Magnesium	ug/L	30200	10000	10000	40300	39300	101	91	75-125	3	20
Manganese	ug/L	232	1000	1000	1250	1230	102	100	75-125	2	20
Molybdenum	ug/L	ND	1000	1000	1070	1050	106	105	75-125	2	20
Potassium	ug/L	2970	10000	10000	13700	13500	108	106	75-125	1	20
Silica	ug/L	14600	10700	10700	25400	24700	101	94		3	N2
Sodium	ug/L	26800	10000	10000	37900	36900	111	101	75-125	3	20

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 621086 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2862545 Matrix: Water  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/21/21 03:36	
Molybdenum, Dissolved	ug/L	ND	10.0	05/21/21 03:36	

LABORATORY CONTROL SAMPLE: 2862546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	941	94	80-120	
Molybdenum, Dissolved	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862547 2862548

Parameter	Units	50287228003 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	1640	1000	1000	2580	2550	94	92	75-125	1	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1000	101	100	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 621233 Analysis Method: EPA 6020  
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2862975 Matrix: Water  
 Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/20/21 21:03	
Arsenic	ug/L	ND	1.0	05/20/21 21:03	
Beryllium	ug/L	ND	0.20	05/20/21 21:03	
Cobalt	ug/L	ND	1.0	05/20/21 21:03	
Selenium	ug/L	ND	1.0	05/20/21 21:03	
Thallium	ug/L	ND	1.0	05/20/21 21:03	

LABORATORY CONTROL SAMPLE: 2862976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.0	105	80-120	
Arsenic	ug/L	40	40.4	101	80-120	
Beryllium	ug/L	40	38.5	96	80-120	
Cobalt	ug/L	40	42.2	106	80-120	
Selenium	ug/L	40	43.0	108	80-120	
Thallium	ug/L	40	42.2	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862977 2862978

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50286550001	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	ND	40	40	40	41.3	36.8	103	92	75-125	11	20	
Arsenic	ug/L	ND	40	40	40	40.5	36.3	101	90	75-125	11	20	
Beryllium	ug/L	ND	40	40	40	38.6	34.4	96	86	75-125	11	20	
Cobalt	ug/L	ND	40	40	40	39.4	35.5	98	88	75-125	10	20	
Selenium	ug/L	ND	40	40	40	38.3	34.5	96	86	75-125	10	20	
Thallium	ug/L	ND	40	40	40	42.4	38.2	106	95	75-125	10	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 621009	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2862224 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/17/21 11:28	

LABORATORY CONTROL SAMPLE: 2862225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2862226

Parameter	Units	50287512012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	307	1	10	

SAMPLE DUPLICATE: 2862227

Parameter	Units	50287512013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	382	5	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	621827	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: 50287287001, 50287287002, 50287287003, 50287287004

SAMPLE DUPLICATE: 2865594

Parameter	Units	50286560001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

SAMPLE DUPLICATE: 2865595

Parameter	Units	50286560007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	620462	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:	50287287001, 50287287002, 50287287003, 50287287004		

METHOD BLANK: 2859285 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/13/21 12:51	

LABORATORY CONTROL SAMPLE: 2859286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859287 2859288

Parameter	Units	10556929001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	9.5	25	25	27.4	27.7	71	73	90-110	1	20	H3,M3

MATRIX SPIKE SAMPLE: 2859289

Parameter	Units	50287317001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.46	90	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	620729	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2860781 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:49	H3,N2

LABORATORY CONTROL SAMPLE: 2860782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860783 2860784

Parameter	Units	50287430003 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	104	102	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 2860785

Parameter	Units	50287429001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	103	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	620453	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: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2859246 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/13/21 08:35	
Nitrogen, Nitrite	mg/L	ND	0.10	05/13/21 08:35	

LABORATORY CONTROL SAMPLE: 2859247

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	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859248 2859249

Parameter	Units	50287287001		2859249		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Nitrate	mg/L	1.3	1	1	2.3	2.4	105	107	90-110	1	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.2	108	112	90-110	3	20 MO

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch:	621769	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: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2865276 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/20/21 16:41	

LABORATORY CONTROL SAMPLE: 2865277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865278 2865279

Parameter	Units	50287286001 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	1.6				0		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287287

QC Batch: 621779 Analysis Method: SM 5310C  
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2865318 Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/21/21 06:16	

LABORATORY CONTROL SAMPLE: 2865319

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: 2865320 2865321

Parameter	Units	50287286005 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	8.9	8.8	89	88	80-120	1	20	

MATRIX SPIKE SAMPLE: 2865322

Parameter	Units	50287287004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.3	97	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287287

QC Batch: 622484      Analysis Method: SM 5310C  
QC Batch Method: SM 5310C      Analysis Description: 5310C Dissolved Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2868750      Matrix: Water  
Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/25/21 10:16	

LABORATORY CONTROL SAMPLE: 2868751

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: 2868752      2868753

Parameter	Units	2868752		2868753		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287287004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dissolved Organic Carbon	mg/L	2.1	10	10	11.4	11.1	93	90	80-120	2	20

MATRIX SPIKE SAMPLE: 2868754

Parameter	Units	50287318003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	27.8	10	37.0	93	80-120	

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

**Sample: MW-3S**      **Lab ID: 50287287001**      Collected: 05/12/21 09:40      Received: 05/12/21 13:46      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	<b>0.322 ± 0.557 (0.972)</b> <b>C:NA T:97%</b>	pCi/L	06/18/21 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>-0.357 ± 0.752 (1.78)</b> <b>C:63% T:85%</b>	pCi/L	06/17/21 14:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.322 ± 1.31 (2.75)</b>	pCi/L	06/22/21 15:45	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

**Sample: MW-4I**      **Lab ID: 50287287002**      Collected: 05/12/21 13:10      Received: 05/12/21 13:46      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	<b>0.562 ± 0.393 (0.474)</b> <b>C:NA T:101%</b>	pCi/L	06/18/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.555 ± 0.401 (0.782)</b> <b>C:72% T:89%</b>	pCi/L	06/17/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.12 ± 0.794 (1.26)</b>	pCi/L	06/22/21 15:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

**Sample: MW-4D**      **Lab ID: 50287287003**      Collected: 05/12/21 12:13      Received: 05/12/21 13:46      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	<b>0.157 ± 0.469 (0.870)</b> <b>C:NA T:99%</b>	pCi/L	06/18/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.529 ± 0.438 (0.884)</b> <b>C:71% T:89%</b>	pCi/L	06/17/21 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.686 ± 0.907 (1.75)</b>	pCi/L	06/22/21 15:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

**Sample: MW-8S**      **Lab ID: 50287287004**      Collected: 05/12/21 10:55      Received: 05/12/21 13:46      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	<b>0.0595 ± 0.272 (0.553)</b> <b>C:NA T:91%</b>	pCi/L	06/18/21 12:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.514 ± 0.544 (1.13)</b> <b>C:64% T:94%</b>	pCi/L	06/17/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.574 ± 0.816 (1.68)</b>	pCi/L	06/22/21 15:45	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 451192

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: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2177977

Matrix: Water

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.244 (0.529) C:NA T:101%	pCi/L	06/18/21 11:55	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

QC Batch: 451193

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: 50287287001, 50287287002, 50287287003, 50287287004

METHOD BLANK: 2177978

Matrix: Water

Associated Lab Samples: 50287287001, 50287287002, 50287287003, 50287287004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.459 ± 0.355 (0.701) C:67% T:93%	pCi/L	06/17/21 11:05	

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## QUALIFIERS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287287001	MW-3S	EPA 9056	622697		
50287287002	MW-4I	EPA 9056	622697		
50287287003	MW-4D	EPA 9056	622697		
50287287004	MW-8S	EPA 9056	622697		
50287287001	MW-3S	EPA 3010	621184	EPA 6010	622272
50287287002	MW-4I	EPA 3010	621184	EPA 6010	622272
50287287003	MW-4D	EPA 3010	621184	EPA 6010	622272
50287287004	MW-8S	EPA 3010	621184	EPA 6010	622272
50287287001	MW-3S	EPA 3010	621086	EPA 6010	621976
50287287002	MW-4I	EPA 3010	621086	EPA 6010	621976
50287287003	MW-4D	EPA 3010	621086	EPA 6010	621976
50287287004	MW-8S	EPA 3010	621086	EPA 6010	621976
50287287001	MW-3S	EPA 200.2	621233	EPA 6020	621600
50287287002	MW-4I	EPA 200.2	621233	EPA 6020	621600
50287287003	MW-4D	EPA 200.2	621233	EPA 6020	621600
50287287004	MW-8S	EPA 200.2	621233	EPA 6020	621600
50287287001	MW-3S	EPA 7470	620591	EPA 7470	621991
50287287002	MW-4I	EPA 7470	620591	EPA 7470	621991
50287287003	MW-4D	EPA 7470	620591	EPA 7470	621991
50287287004	MW-8S	EPA 7470	620591	EPA 7470	621991
50287287001	MW-3S	EPA 903.1	451192		
50287287002	MW-4I	EPA 903.1	451192		
50287287003	MW-4D	EPA 903.1	451192		
50287287004	MW-8S	EPA 903.1	451192		
50287287001	MW-3S	EPA 904.0	451193		
50287287002	MW-4I	EPA 904.0	451193		
50287287003	MW-4D	EPA 904.0	451193		
50287287004	MW-8S	EPA 904.0	451193		
50287287001	MW-3S	Total Radium Calculation	453575		
50287287002	MW-4I	Total Radium Calculation	453575		
50287287003	MW-4D	Total Radium Calculation	453575		
50287287004	MW-8S	Total Radium Calculation	453575		
50287287001	MW-3S	SM 2320B	620758		
50287287002	MW-4I	SM 2320B	620758		
50287287003	MW-4D	SM 2320B	620758		
50287287004	MW-8S	SM 2320B	620758		
50287287001	MW-3S	SM 2540C	621009		
50287287002	MW-4I	SM 2540C	621009		
50287287003	MW-4D	SM 2540C	621009		
50287287004	MW-8S	SM 2540C	621009		
50287287001	MW-3S	SM 4500-H+B	621827		
50287287002	MW-4I	SM 4500-H+B	621827		
50287287003	MW-4D	SM 4500-H+B	621827		
50287287004	MW-8S	SM 4500-H+B	621827		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287287001	MW-3S	SM 4500-S2-D	620462		
50287287002	MW-4I	SM 4500-S2-D	620462		
50287287003	MW-4D	SM 4500-S2-D	620462		
50287287004	MW-8S	SM 4500-S2-D	620462		
50287287001	MW-3S	HACH 8146	620729		
50287287002	MW-4I	HACH 8146	620729		
50287287003	MW-4D	HACH 8146	620729		
50287287004	MW-8S	HACH 8146	620729		
50287287001	MW-3S	EPA 353.2	620453		
50287287002	MW-4I	EPA 353.2	620453		
50287287003	MW-4D	EPA 353.2	620453		
50287287004	MW-8S	EPA 353.2	620453		
50287287001	MW-3S	EPA 365.1	621769	EPA 365.1	621930
50287287002	MW-4I	EPA 365.1	621769	EPA 365.1	621930
50287287003	MW-4D	EPA 365.1	621769	EPA 365.1	621930
50287287004	MW-8S	EPA 365.1	621769	EPA 365.1	621930
50287287001	MW-3S	SM 5310C	621779		
50287287002	MW-4I	SM 5310C	621779		
50287287003	MW-4D	SM 5310C	621779		
50287287004	MW-8S	SM 5310C	621779		
50287287001	MW-3S	SM 5310C	622484		
50287287002	MW-4I	SM 5310C	622484		
50287287003	MW-4D	SM 5310C	622484		
50287287004	MW-8S	SM 5310C	622484		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MW 8/12/21 1625

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: 4.7/4.3 4.6/4.0 5.0/4.7 5.2/4.6 MW  
 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: <u>NO3</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (&gt;2)</u> <u>H2SO4 (&lt;2)</u> NaOH (>10) <u>NaOH/ZnAc (&gt;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:			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:

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September 22, 2021

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

RE: Project: Eagle Valley P1 R2  
Pace Project No.: 50287429

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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: Eagle Valley P1 R2

Pace Project No.: 50287429

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287429001	MW-17S	Water	05/13/21 10:05	05/13/21 16:00
50287429002	MW-17I	Water	05/13/21 11:02	05/13/21 16:00
50287429003	MW-17D	Water	05/13/21 12:00	05/13/21 16:00
50287429004	MW-18S	Water	05/13/21 14:25	05/13/21 16:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287429001	MW-17S	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	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	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	GWA	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		50287429002	MW-17I	EPA 9056	RMR
EPA 6010	KJE			12	PASI-I
EPA 6010	JPK			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MK1			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	WDB			1	PASI-I
HACH 8146	SWJ			1	PASI-I
EPA 353.2	GWA			2	PASI-I
EPA 365.1	SKK			1	PASI-I
SM 5310C	GWA			1	PASI-I
SM 5310C	GWA			1	PASI-I
50287429003	MW-17D			EPA 9056	RMR
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	GWA	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50287429004	MW-18S	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MK1	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	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	GWA	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: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287429001</b>	<b>MW-17S</b>					
EPA 9056	Chloride	39.8	mg/L	2.5	05/27/21 12:13	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/27/21 11:56	
EPA 9056	Sulfate	28.6	mg/L	2.5	05/27/21 12:13	
EPA 6010	Barium	117	ug/L	10.0	05/23/21 08:47	
EPA 6010	Boron	363	ug/L	100	05/23/21 08:47	
EPA 6010	Calcium	105000	ug/L	1000	05/23/21 08:47	
EPA 6010	Iron	160	ug/L	100	05/23/21 08:47	
EPA 6010	Magnesium	23000	ug/L	1000	05/23/21 08:47	
EPA 6010	Molybdenum	13.6	ug/L	10.0	05/23/21 08:47	
EPA 6010	Potassium	3540	ug/L	1000	05/23/21 08:47	
EPA 6010	Silica	11900	ug/L	450	05/23/21 08:47	N2
EPA 6010	Sodium	31000	ug/L	1000	05/23/21 08:47	
EPA 6010	Molybdenum, Dissolved	13.1	ug/L	10.0	05/21/21 04:27	
EPA 903.1	Radium-226	0.232 ± 0.279 (0.426)	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	0.662 ± 0.409 (0.754)	pCi/L		06/18/21 14:08	
		C:NA T:90%				
		C:67% T:82%				
Total Radium Calculation	Total Radium	0.894 ± 0.688 (1.18)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	310	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	310	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	422	mg/L	10.0	05/18/21 10:59	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/21/21 09:45	H3
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	05/14/21 12:31	
<b>50287429002</b>	<b>MW-17I</b>					
EPA 9056	Chloride	41.9	mg/L	2.5	05/27/21 12:45	
EPA 9056	Fluoride	0.12	mg/L	0.10	05/27/21 12:29	
EPA 9056	Sulfate	26.8	mg/L	2.5	05/27/21 12:45	
EPA 6010	Aluminum	807	ug/L	200	05/23/21 08:54	
EPA 6010	Barium	60.3	ug/L	10.0	05/23/21 08:54	
EPA 6010	Boron	455	ug/L	100	05/23/21 08:54	
EPA 6010	Calcium	84400	ug/L	1000	05/23/21 08:54	
EPA 6010	Iron	960	ug/L	100	05/23/21 08:54	
EPA 6010	Magnesium	20900	ug/L	1000	05/23/21 08:54	
EPA 6010	Manganese	11.8	ug/L	10.0	05/23/21 08:54	
EPA 6010	Potassium	2600	ug/L	1000	05/23/21 08:54	
EPA 6010	Silica	13100	ug/L	450	05/23/21 08:54	N2
EPA 6010	Sodium	35600	ug/L	1000	05/23/21 08:54	
EPA 6020	Arsenic	1.1	ug/L	1.0	05/24/21 05:37	
EPA 903.1	Radium-226	0.341 ± 0.317 (0.418)	pCi/L		06/22/21 14:06	
		C:NA T:92%				

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287429002</b>	<b>MW-17I</b>					
EPA 904.0	Radium-228	1.08 ± 0.452 (0.697) C:70% T:84%	pCi/L		06/18/21 14:09	
Total Radium Calculation	Total Radium	1.42 ± 0.769 (1.12)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	259	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	259	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	05/18/21 11:00	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/21/21 09:48	H3
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	05/14/21 12:33	
<b>50287429003</b>	<b>MW-17D</b>					
EPA 9056	Chloride	98.5	mg/L	2.5	05/27/21 13:18	
EPA 9056	Sulfate	218	mg/L	2.5	05/27/21 13:18	
EPA 6010	Aluminum	714	ug/L	200	05/23/21 08:56	
EPA 6010	Barium	73.9	ug/L	10.0	05/23/21 08:56	
EPA 6010	Boron	4520	ug/L	100	05/23/21 08:56	
EPA 6010	Calcium	110000	ug/L	1000	05/23/21 08:56	
EPA 6010	Iron	2560	ug/L	100	05/23/21 08:56	
EPA 6010	Lithium	42.9	ug/L	20.0	05/23/21 08:56	
EPA 6010	Magnesium	28600	ug/L	1000	05/23/21 08:56	
EPA 6010	Manganese	362	ug/L	10.0	05/23/21 08:56	
EPA 6010	Molybdenum	31.3	ug/L	10.0	05/23/21 08:56	
EPA 6010	Potassium	4010	ug/L	1000	05/23/21 08:56	
EPA 6010	Silica	14600	ug/L	450	05/23/21 08:56	N2
EPA 6010	Sodium	85000	ug/L	1000	05/23/21 08:56	
EPA 6010	Manganese, Dissolved	323	ug/L	10.0	05/21/21 04:31	
EPA 6010	Molybdenum, Dissolved	30.2	ug/L	10.0	05/21/21 04:31	
EPA 6020	Arsenic	3.9	ug/L	1.0	05/24/21 05:41	
EPA 6020	Lead	2.6	ug/L	1.0	05/24/21 05:41	
EPA 903.1	Radium-226	0.135 ± 0.494 (0.950) C:NA T:87%	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	1.20 ± 0.482 (0.757) C:72% T:89%	pCi/L		06/18/21 14:09	
Total Radium Calculation	Total Radium	1.34 ± 0.976 (1.71)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	207	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	207	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	661	mg/L	10.0	05/18/21 11:02	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/21/21 10:24	H3
HACH 8146	Iron, Ferrous	0.65	mg/L	0.20	05/14/21 14:52	H3,N2
EPA 353.2	Nitrogen, Nitrate	0.13	mg/L	0.10	05/14/21 12:35	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287429004</b>	<b>MW-18S</b>					
EPA 9056	Chloride	67.3	mg/L	2.5	05/27/21 13:51	
EPA 9056	Fluoride	0.18	mg/L	0.10	05/27/21 13:34	
EPA 9056	Sulfate	30.2	mg/L	2.5	05/27/21 13:51	
EPA 6010	Aluminum	266	ug/L	200	05/23/21 08:58	
EPA 6010	Barium	34.9	ug/L	10.0	05/23/21 08:58	
EPA 6010	Boron	174	ug/L	100	05/23/21 08:58	
EPA 6010	Calcium	70200	ug/L	1000	05/23/21 08:58	
EPA 6010	Iron	437	ug/L	100	05/23/21 08:58	
EPA 6010	Magnesium	16100	ug/L	1000	05/23/21 08:58	
EPA 6010	Molybdenum	23.5	ug/L	10.0	05/23/21 08:58	
EPA 6010	Potassium	2300	ug/L	1000	05/23/21 08:58	
EPA 6010	Silica	7800	ug/L	450	05/23/21 08:58	N2
EPA 6010	Sodium	35800	ug/L	1000	05/23/21 08:58	
EPA 6010	Molybdenum, Dissolved	21.7	ug/L	10.0	05/21/21 04:33	
EPA 903.1	Radium-226	0.116 ± 0.265 (0.426)	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	0.291 ± 0.377 (0.800)	pCi/L		06/18/21 14:13	
		C:NA T:92%				
		C:65%				
		T:82%				
Total Radium Calculation	Total Radium	0.407 ± 0.642 (1.23)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	175	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	175	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	330	mg/L	10.0	05/18/21 11:03	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/21/21 10:27	H3
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.10	05/14/21 12:37	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-17S	Lab ID: 50287429001	Collected: 05/13/21 10:05	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	39.8	mg/L	2.5	10		05/27/21 12:13	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		05/27/21 11:56	16984-48-8	
Sulfate	28.6	mg/L	2.5	10		05/27/21 12:13	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 08:47	7429-90-5	
Barium	117	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:47	7440-39-3	
Boron	363	ug/L	100	1	05/21/21 06:55	05/23/21 08:47	7440-42-8	
Calcium	105000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:47	7440-70-2	
Iron	160	ug/L	100	1	05/21/21 06:55	05/23/21 08:47	7439-89-6	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:47	7439-93-2	
Magnesium	23000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:47	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:47	7439-96-5	
Molybdenum	13.6	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:47	7439-98-7	
Potassium	3540	ug/L	1000	1	05/21/21 06:55	05/23/21 08:47	7440-09-7	
Silica	11900	ug/L	450	1	05/21/21 06:55	05/23/21 08:47	7631-86-9	N2
Sodium	31000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:47	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:27	7439-96-5	
Molybdenum, Dissolved	13.1	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:27	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:07	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:07	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:07	7440-48-4	
Lead	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:07	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:07	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	310	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	310	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	422	mg/L	10.0	1		05/18/21 10:59		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/21/21 09:45		H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-17S	Lab ID: 50287429001	Collected: 05/13/21 10:05	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:51		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.9	mg/L	0.10	1		05/14/21 12:31	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:31	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:18		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 00:41	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 12:59		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-171	Lab ID: 50287429002	Collected: 05/13/21 11:02	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	41.9	mg/L	2.5	10		05/27/21 12:45	16887-00-6	
Fluoride	0.12	mg/L	0.10	1		05/27/21 12:29	16984-48-8	
Sulfate	26.8	mg/L	2.5	10		05/27/21 12:45	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	807	ug/L	200	1	05/21/21 06:55	05/23/21 08:54	7429-90-5	
Barium	60.3	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:54	7440-39-3	
Boron	455	ug/L	100	1	05/21/21 06:55	05/23/21 08:54	7440-42-8	
Calcium	84400	ug/L	1000	1	05/21/21 06:55	05/23/21 08:54	7440-70-2	
Iron	960	ug/L	100	1	05/21/21 06:55	05/23/21 08:54	7439-89-6	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:54	7439-93-2	
Magnesium	20900	ug/L	1000	1	05/21/21 06:55	05/23/21 08:54	7439-95-4	
Manganese	11.8	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:54	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:54	7439-98-7	
Potassium	2600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:54	7440-09-7	
Silica	13100	ug/L	450	1	05/21/21 06:55	05/23/21 08:54	7631-86-9	N2
Sodium	35600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:54	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:29	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:29	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:37	7440-36-0	
Arsenic	1.1	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:37	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:37	7440-48-4	
Lead	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:37	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:37	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	259	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	259	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	391	mg/L	10.0	1		05/18/21 11:00		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/21/21 09:48		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-171	Lab ID: 50287429002	Collected: 05/13/21 11:02	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:51		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.9	mg/L	0.10	1		05/14/21 12:33	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:33	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:19		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 01:06	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 13:25		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-17D	Lab ID: 50287429003	Collected: 05/13/21 12:00	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	98.5	mg/L	2.5	10		05/27/21 13:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/27/21 13:02	16984-48-8	
Sulfate	218	mg/L	2.5	10		05/27/21 13:18	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	714	ug/L	200	1	05/21/21 06:55	05/23/21 08:56	7429-90-5	
Barium	73.9	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:56	7440-39-3	
Boron	4520	ug/L	100	1	05/21/21 06:55	05/23/21 08:56	7440-42-8	
Calcium	110000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:56	7440-70-2	
Iron	2560	ug/L	100	1	05/21/21 06:55	05/23/21 08:56	7439-89-6	
Lithium	42.9	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:56	7439-93-2	
Magnesium	28600	ug/L	1000	1	05/21/21 06:55	05/23/21 08:56	7439-95-4	
Manganese	362	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:56	7439-96-5	
Molybdenum	31.3	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:56	7439-98-7	
Potassium	4010	ug/L	1000	1	05/21/21 06:55	05/23/21 08:56	7440-09-7	
Silica	14600	ug/L	450	1	05/21/21 06:55	05/23/21 08:56	7631-86-9	N2
Sodium	85000	ug/L	1000	1	05/21/21 06:55	05/23/21 08:56	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	323	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:31	7439-96-5	
Molybdenum, Dissolved	30.2	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:31	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:41	7440-36-0	
Arsenic	3.9	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:41	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:41	7440-48-4	
Lead	2.6	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:41	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:41	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	207	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	207	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	661	mg/L	10.0	1		05/18/21 11:02		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/21/21 10:24		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-17D	Lab ID: 50287429003	Collected: 05/13/21 12:00	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	<b>0.65</b>	mg/L	0.20	1		05/14/21 14:52		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>0.13</b>	mg/L	0.10	1		05/14/21 12:35	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:35	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:19		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 01:32	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 13:51		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-18S	Lab ID: 50287429004	Collected: 05/13/21 14:25	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	67.3	mg/L	2.5	10		05/27/21 13:51	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		05/27/21 13:34	16984-48-8	
Sulfate	30.2	mg/L	2.5	10		05/27/21 13:51	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	266	ug/L	200	1	05/21/21 06:55	05/23/21 08:58	7429-90-5	
Barium	34.9	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:58	7440-39-3	
Boron	174	ug/L	100	1	05/21/21 06:55	05/23/21 08:58	7440-42-8	
Calcium	70200	ug/L	1000	1	05/21/21 06:55	05/23/21 08:58	7440-70-2	
Iron	437	ug/L	100	1	05/21/21 06:55	05/23/21 08:58	7439-89-6	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 08:58	7439-93-2	
Magnesium	16100	ug/L	1000	1	05/21/21 06:55	05/23/21 08:58	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:58	7439-96-5	
Molybdenum	23.5	ug/L	10.0	1	05/21/21 06:55	05/23/21 08:58	7439-98-7	
Potassium	2300	ug/L	1000	1	05/21/21 06:55	05/23/21 08:58	7440-09-7	
Silica	7800	ug/L	450	1	05/21/21 06:55	05/23/21 08:58	7631-86-9	N2
Sodium	35800	ug/L	1000	1	05/21/21 06:55	05/23/21 08:58	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:33	7439-96-5	
Molybdenum, Dissolved	21.7	ug/L	10.0	1	05/20/21 13:20	05/21/21 04:33	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:45	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:45	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:45	7440-48-4	
Lead	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:45	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/24/21 05:45	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	175	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	175	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	330	mg/L	10.0	1		05/18/21 11:03		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/21/21 10:27		H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Sample: MW-18S	Lab ID: 50287429004	Collected: 05/13/21 14:25	Received: 05/13/21 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:52		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.4	mg/L	0.10	1		05/14/21 12:37	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:37	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:22		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 01:51	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 14:16		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 622816

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2870002

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/27/21 07:55	
Fluoride	mg/L	ND	0.10	05/27/21 07:55	
Sulfate	mg/L	ND	0.25	05/27/21 07:55	

LABORATORY CONTROL SAMPLE: 2870003

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	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870004 2870005

Parameter	Units	50286563017		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Chloride	mg/L	1.6	1.2	1.2	2.9	2.9	105	105	105	80-120	0	15		
Fluoride	mg/L	0.53	0.5	0.5	1.1	1.1	106	106	106	80-120	0	15		
Sulfate	mg/L	105	25	25	135	135	116	119	119	80-120	0	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2  
Pace Project No.: 50287429

QC Batch: 621184 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2862875 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/23/21 08:18	
Barium	ug/L	ND	10.0	05/23/21 08:18	
Boron	ug/L	ND	100	05/23/21 08:18	
Calcium	ug/L	ND	1000	05/23/21 08:18	
Iron	ug/L	ND	100	05/23/21 08:18	
Lithium	ug/L	ND	20.0	05/23/21 08:18	
Magnesium	ug/L	ND	1000	05/23/21 08:18	
Manganese	ug/L	ND	10.0	05/23/21 08:18	
Molybdenum	ug/L	ND	10.0	05/23/21 08:18	
Potassium	ug/L	ND	1000	05/23/21 08:18	
Silica	ug/L	ND	450	05/23/21 08:18	N2
Sodium	ug/L	ND	1000	05/23/21 08:18	

LABORATORY CONTROL SAMPLE: 2862876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1060	106	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lithium	ug/L	1000	972	97	80-120	
Magnesium	ug/L	10000	9740	97	80-120	
Manganese	ug/L	1000	991	99	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10100	95		N2
Sodium	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862877 2862878

Parameter	Units	2862877		2862878		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50287430003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10600	10400	106	104	75-125	2	20	
Barium	ug/L	122	1000	1000	1170	1140	105	102	75-125	2	20	
Boron	ug/L	114	1000	1000	1210	1190	110	108	75-125	1	20	
Calcium	ug/L	121000	10000	10000	131000	129000	99	73	75-125	2	20	P6

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862877												2862878	
Parameter	Units	50287430003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Iron	ug/L	ND	10000	10000	10400	10300	103	102	75-125	1	20		
Lithium	ug/L	ND	1000	1000	1040	1010	103	101	75-125	2	20		
Magnesium	ug/L	30200	10000	10000	40300	39300	101	91	75-125	3	20		
Manganese	ug/L	232	1000	1000	1250	1230	102	100	75-125	2	20		
Molybdenum	ug/L	ND	1000	1000	1070	1050	106	105	75-125	2	20		
Potassium	ug/L	2970	10000	10000	13700	13500	108	106	75-125	1	20		
Silica	ug/L	14600	10700	10700	25400	24700	101	94		3		N2	
Sodium	ug/L	26800	10000	10000	37900	36900	111	101	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch:	621086	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2862545 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/21/21 03:36	
Molybdenum, Dissolved	ug/L	ND	10.0	05/21/21 03:36	

LABORATORY CONTROL SAMPLE: 2862546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	941	94	80-120	
Molybdenum, Dissolved	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862547 2862548

Parameter	Units	50287228003 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	1640	1000	1000	2580	2550	94	92	75-125	1	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1000	101	100	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

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QC Batch:	621952	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

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METHOD BLANK: 2866300 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/24/21 04:43	
Arsenic	ug/L	ND	1.0	05/24/21 04:43	
Cobalt	ug/L	ND	1.0	05/24/21 04:43	
Lead	ug/L	ND	1.0	05/24/21 04:43	
Selenium	ug/L	ND	1.0	05/24/21 04:43	

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LABORATORY CONTROL SAMPLE: 2866301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.5	101	80-120	
Arsenic	ug/L	40	38.4	96	80-120	
Cobalt	ug/L	40	41.2	103	80-120	
Lead	ug/L	40	39.7	99	80-120	
Selenium	ug/L	40	39.0	98	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866302 2866303

Parameter	Units	50287429001		2866302		2866303		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	ND	40	40	40.8	41.2	102	103	75-125	1	20			
Arsenic	ug/L	ND	40	40	38.1	38.5	95	96	75-125	1	20			
Cobalt	ug/L	ND	40	40	39.3	39.4	98	98	75-125	0	20			
Lead	ug/L	ND	40	40	40.0	40.2	100	100	75-125	1	20			
Selenium	ug/L	ND	40	40	38.1	38.3	95	95	75-125	0	20			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 621256

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2863057

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 10:54	

LABORATORY CONTROL SAMPLE: 2863058

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

SAMPLE DUPLICATE: 2863059

Parameter	Units	50287550005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1580	1580	1	10	

SAMPLE DUPLICATE: 2863060

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	485	481	1	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 622013

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: 50287429001, 50287429002

SAMPLE DUPLICATE: 2866650

Parameter	Units	50287420001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	0	2	H3

SAMPLE DUPLICATE: 2866651

Parameter	Units	50287429002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	1	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 622016

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: 50287429003, 50287429004

SAMPLE DUPLICATE: 2866652

Parameter	Units	50286646007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2866653

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	2	H3

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch:	621466	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: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2863944 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/19/21 10:29	

LABORATORY CONTROL SAMPLE: 2863945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863946 2863947

Parameter	Units	50287430003 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	0.51	0.51	103	101	90-110	1	20	

MATRIX SPIKE SAMPLE: 2863948

Parameter	Units	50287462001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.10	19	90-110	M0

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch:	620729	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2860781 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:49	H3,N2

LABORATORY CONTROL SAMPLE: 2860782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860783 2860784

Parameter	Units	50287430003 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	104	102	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 2860785

Parameter	Units	50287429001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	103	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 620780

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: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2861065

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/14/21 12:27	
Nitrogen, Nitrite	mg/L	ND	0.10	05/14/21 12:27	

LABORATORY CONTROL SAMPLE: 2861066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861067 2861068

Parameter	Units	50287430003 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	1.0	1.0	100	101	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	107	107	90-110	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch:	622301	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: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2868173 Matrix: Water  
Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/26/21 11:07	

LABORATORY CONTROL SAMPLE: 2868174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.7			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868175 2868176

Parameter	Units	50287368002 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	<0.15			1.7	1.7				1		

MATRIX SPIKE SAMPLE: 2868177

Parameter	Units	50287429003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.5			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 622733

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2869623

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/25/21 20:48	

LABORATORY CONTROL SAMPLE: 2869624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869625 2869626

Parameter	Units	50287430003		2869626		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	ND	10	10	9.2	9.2	92	92	80-120	0	20

MATRIX SPIKE SAMPLE: 2869627

Parameter	Units	50287457001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.96	10	10.3	94	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 622734

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2869628

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/26/21 12:21	

LABORATORY CONTROL SAMPLE: 2869629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869630 2869631

Parameter	Units	50287430003 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	9.5	9.2	95	92	80-120	3	20	

MATRIX SPIKE SAMPLE: 2869632

Parameter	Units	50287462003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	39.0	10	47.9	89	80-120	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

**Sample: MW-17S**      **Lab ID: 50287429001**      Collected: 05/13/21 10:05      Received: 05/13/21 16:00      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	<b>0.232 ± 0.279 (0.426)</b> <b>C:NA T:90%</b>	pCi/L	06/22/21 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.662 ± 0.409 (0.754)</b> <b>C:67% T:82%</b>	pCi/L	06/18/21 14:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.894 ± 0.688 (1.18)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

**Sample: MW-171**      **Lab ID: 50287429002**      Collected: 05/13/21 11:02      Received: 05/13/21 16:00      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	<b>0.341 ± 0.317 (0.418)</b> <b>C:NA T:92%</b>	pCi/L	06/22/21 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.08 ± 0.452 (0.697)</b> <b>C:70% T:84%</b>	pCi/L	06/18/21 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.42 ± 0.769 (1.12)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

**Sample: MW-17D**      **Lab ID: 50287429003**      Collected: 05/13/21 12:00      Received: 05/13/21 16:00      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	<b>0.135 ± 0.494 (0.950)</b> <b>C:NA T:87%</b>	pCi/L	06/22/21 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.20 ± 0.482 (0.757)</b> <b>C:72% T:89%</b>	pCi/L	06/18/21 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.34 ± 0.976 (1.71)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

**Sample: MW-18S**      **Lab ID: 50287429004**      Collected: 05/13/21 14:25      Received: 05/13/21 16:00      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	<b>0.116 ± 0.265 (0.426)</b> <b>C:NA T:92%</b>	pCi/L	06/22/21 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.291 ± 0.377 (0.800)</b> <b>C:65% T:82%</b>	pCi/L	06/18/21 14:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.407 ± 0.642 (1.23)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 451446

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: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2178822

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0492 ± 0.348 (0.694) C:NA T:90%	pCi/L	06/22/21 14:06	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

QC Batch: 451447

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: 50287429001, 50287429002, 50287429003, 50287429004

METHOD BLANK: 2178823

Matrix: Water

Associated Lab Samples: 50287429001, 50287429002, 50287429003, 50287429004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.808 ± 0.405 (0.694) C:73% T:88%	pCi/L	06/18/21 14:28	

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## QUALIFIERS

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287429001	MW-17S	EPA 9056	622816		
50287429002	MW-17I	EPA 9056	622816		
50287429003	MW-17D	EPA 9056	622816		
50287429004	MW-18S	EPA 9056	622816		
50287429001	MW-17S	EPA 3010	621184	EPA 6010	622272
50287429002	MW-17I	EPA 3010	621184	EPA 6010	622272
50287429003	MW-17D	EPA 3010	621184	EPA 6010	622272
50287429004	MW-18S	EPA 3010	621184	EPA 6010	622272
50287429001	MW-17S	EPA 3010	621086	EPA 6010	621976
50287429002	MW-17I	EPA 3010	621086	EPA 6010	621976
50287429003	MW-17D	EPA 3010	621086	EPA 6010	621976
50287429004	MW-18S	EPA 3010	621086	EPA 6010	621976
50287429001	MW-17S	EPA 200.2	621952	EPA 6020	622330
50287429002	MW-17I	EPA 200.2	621952	EPA 6020	622330
50287429003	MW-17D	EPA 200.2	621952	EPA 6020	622330
50287429004	MW-18S	EPA 200.2	621952	EPA 6020	622330
50287429001	MW-17S	EPA 903.1	451446		
50287429002	MW-17I	EPA 903.1	451446		
50287429003	MW-17D	EPA 903.1	451446		
50287429004	MW-18S	EPA 903.1	451446		
50287429001	MW-17S	EPA 904.0	451447		
50287429002	MW-17I	EPA 904.0	451447		
50287429003	MW-17D	EPA 904.0	451447		
50287429004	MW-18S	EPA 904.0	451447		
50287429001	MW-17S	Total Radium Calculation	453604		
50287429002	MW-17I	Total Radium Calculation	453604		
50287429003	MW-17D	Total Radium Calculation	453604		
50287429004	MW-18S	Total Radium Calculation	453604		
50287429001	MW-17S	SM 2320B	620849		
50287429002	MW-17I	SM 2320B	620849		
50287429003	MW-17D	SM 2320B	620849		
50287429004	MW-18S	SM 2320B	620849		
50287429001	MW-17S	SM 2540C	621256		
50287429002	MW-17I	SM 2540C	621256		
50287429003	MW-17D	SM 2540C	621256		
50287429004	MW-18S	SM 2540C	621256		
50287429001	MW-17S	SM 4500-H+B	622013		
50287429002	MW-17I	SM 4500-H+B	622013		
50287429003	MW-17D	SM 4500-H+B	622016		
50287429004	MW-18S	SM 4500-H+B	622016		
50287429001	MW-17S	SM 4500-S2-D	621466		
50287429002	MW-17I	SM 4500-S2-D	621466		
50287429003	MW-17D	SM 4500-S2-D	621466		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1 R2

Pace Project No.: 50287429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287429004	MW-18S	SM 4500-S2-D	621466		
50287429001	MW-17S	HACH 8146	620729		
50287429002	MW-17I	HACH 8146	620729		
50287429003	MW-17D	HACH 8146	620729		
50287429004	MW-18S	HACH 8146	620729		
50287429001	MW-17S	EPA 353.2	620780		
50287429002	MW-17I	EPA 353.2	620780		
50287429003	MW-17D	EPA 353.2	620780		
50287429004	MW-18S	EPA 353.2	620780		
50287429001	MW-17S	EPA 365.1	622301	EPA 365.1	622749
50287429002	MW-17I	EPA 365.1	622301	EPA 365.1	622749
50287429003	MW-17D	EPA 365.1	622301	EPA 365.1	622749
50287429004	MW-18S	EPA 365.1	622301	EPA 365.1	622749
50287429001	MW-17S	SM 5310C	622733		
50287429002	MW-17I	SM 5310C	622733		
50287429003	MW-17D	SM 5310C	622733		
50287429004	MW-18S	SM 5310C	622733		
50287429001	MW-17S	SM 5310C	622734		
50287429002	MW-17I	SM 5310C	622734		
50287429003	MW-17D	SM 5310C	622734		
50287429004	MW-18S	SM 5310C	622734		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DAP 5/13/21 17 1630

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: 3.0/3.0, 1.7/1.7  
 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 (&lt;2)</u> <u>H2SO4 (&lt;2)</u> NaOH (>10) <u>NaOH/ZnAc (&gt;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>1650</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:

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### Sample Container Count

Sample Line Item	WGFU	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																																		
3																																		
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10												2			2	1	2	1	1	1	1											WT	✓	✓
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	WGFU	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																																	
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		
WGFU	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



July 27, 2021

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

RE: Project: Eagle Valley P1 R1  
Pace Project No.: 50287430

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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: Eagle Valley P1 R1

Pace Project No.: 50287430

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287430001	MW-9S	Water	05/13/21 12:44	05/13/21 15:05
50287430002	MW-9I	Water	05/13/21 09:36	05/13/21 15:05
50287430003	MW-9D	Water	05/13/21 10:41	05/13/21 15:05
50287430004	MW-12S	Water	05/13/21 14:05	05/13/21 15:05
50287430005	MW-9D MS	Water	05/13/21 10:41	05/13/21 15:05
50287430006	MW-9D MSD	Water	05/13/21 10:41	05/13/21 15:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287430001	MW-9S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	KJE	15	PASI-I		
		EPA 6010	JPK	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	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	WDB	1	PASI-I		
		HACH 8146	SWJ	1	PASI-I		
		EPA 353.2	GWA	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50287430002	MW-9I	EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JPK	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	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	WDB			1	PASI-I		
HACH 8146	SWJ			1	PASI-I		
EPA 353.2	GWA			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50287430003	MW-9D			EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JPK	2	PASI-I

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	CAW	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	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	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	GWA	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
<b>50287430004</b>	<b>MW-12S</b>	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	15	PASI-I
		EPA 6010	JPK	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	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	WDB	1	PASI-I
		HACH 8146	SWJ	1	PASI-I
		EPA 353.2	GWA	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
<b>50287430005</b>	<b>MW-9D MS</b>	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
<b>50287430006</b>	<b>MW-9D MSD</b>	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	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: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287430001</b>	<b>MW-9S</b>					
EPA 9056	Chloride	283	mg/L	50.0	05/27/21 11:30	
EPA 9056	Fluoride	0.42	mg/L	0.10	05/26/21 21:45	
EPA 9056	Sulfate	800	mg/L	50.0	05/27/21 11:30	
EPA 6010	Barium	65.1	ug/L	10.0	05/23/21 09:00	
EPA 6010	Boron	2790	ug/L	100	05/23/21 09:00	
EPA 6010	Calcium	284000	ug/L	5000	05/24/21 14:35	
EPA 6010	Lithium	79.1	ug/L	20.0	05/23/21 09:00	
EPA 6010	Magnesium	65500	ug/L	1000	05/23/21 09:00	
EPA 6010	Manganese	725	ug/L	10.0	05/23/21 09:00	
EPA 6010	Molybdenum	179	ug/L	10.0	05/23/21 09:00	
EPA 6010	Potassium	15300	ug/L	1000	05/23/21 09:00	
EPA 6010	Silica	20600	ug/L	450	05/23/21 09:00	N2
EPA 6010	Sodium	244000	ug/L	5000	05/24/21 14:35	
EPA 6010	Manganese, Dissolved	710	ug/L	10.0	05/25/21 02:50	
EPA 6010	Molybdenum, Dissolved	187	ug/L	10.0	05/25/21 02:50	
EPA 6020	Arsenic	2.9	ug/L	1.0	05/25/21 01:04	
EPA 6020	Selenium	1.4	ug/L	1.0	05/25/21 01:04	
EPA 903.1	Radium-226	0.0532 ± 0.346 (0.697)	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	0.571 ± 0.364 (0.683)	pCi/L		06/18/21 14:13	
		C:NA T:97%				
		C:74%				
		T:90%				
Total Radium Calculation	Total Radium	0.624 ± 0.710 (1.38)	pCi/L		06/22/21 17:18	
SM 2320B	Alkalinity, Total as CaCO3	220	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	220	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	1840	mg/L	40.0	05/18/21 11:04	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/21/21 10:25	H3
EPA 353.2	Nitrogen, Nitrate	0.63	mg/L	0.10	05/14/21 12:39	
EPA 365.1	Phosphate as P04	0.75	mg/L	0.15	05/26/21 11:23	
<b>50287430002</b>	<b>MW-9I</b>					
EPA 9056	Chloride	163	mg/L	5.0	05/26/21 23:07	
EPA 9056	Fluoride	0.35	mg/L	0.10	05/26/21 22:51	
EPA 9056	Sulfate	364	mg/L	5.0	05/26/21 23:07	
EPA 6010	Barium	129	ug/L	10.0	05/23/21 09:03	
EPA 6010	Boron	590	ug/L	100	05/23/21 09:03	
EPA 6010	Calcium	122000	ug/L	1000	05/23/21 09:03	
EPA 6010	Magnesium	35300	ug/L	1000	05/23/21 09:03	
EPA 6010	Manganese	388	ug/L	10.0	05/23/21 09:03	
EPA 6010	Molybdenum	10.8	ug/L	10.0	05/23/21 09:03	
EPA 6010	Potassium	7690	ug/L	1000	05/23/21 09:03	
EPA 6010	Silica	10700	ug/L	450	05/23/21 09:03	N2
EPA 6010	Sodium	142000	ug/L	1000	05/23/21 09:03	
EPA 6010	Manganese, Dissolved	380	ug/L	10.0	05/25/21 02:52	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287430002</b>	<b>MW-9I</b>					
EPA 6010	Molybdenum, Dissolved	11.1	ug/L	10.0	05/25/21 02:52	
EPA 6020	Cobalt	1.1	ug/L	1.0	05/25/21 01:09	
EPA 903.1	Radium-226	0.461 ± 0.600 (1.00) C:NA T:90%	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	0.735 ± 0.371 (0.634) C:70% T:94%	pCi/L		06/18/21 14:09	
Total Radium Calculation	Total Radium	1.20 ± 0.971 (1.63)	pCi/L		06/22/21 17:18	
SM 2320B	Alkalinity, Total as CaCO3	178	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	178	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	866	mg/L	20.0	05/18/21 11:04	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/21/21 10:20	H3
EPA 353.2	Nitrogen, Nitrate	0.84	mg/L	0.10	05/14/21 12:40	
EPA 353.2	Nitrogen, Nitrite	0.12	mg/L	0.10	05/14/21 12:40	
<b>50287430003</b>	<b>MW-9D</b>					
EPA 9056	Chloride	49.8	mg/L	5.0	05/26/21 23:40	
EPA 9056	Fluoride	0.12	mg/L	0.10	05/26/21 23:24	
EPA 9056	Sulfate	37.8	mg/L	5.0	05/26/21 23:40	
EPA 6010	Barium	122	ug/L	10.0	05/23/21 09:05	
EPA 6010	Boron	114	ug/L	100	05/23/21 09:05	
EPA 6010	Calcium	121000	ug/L	1000	05/23/21 09:05	
EPA 6010	Magnesium	30200	ug/L	1000	05/23/21 09:05	
EPA 6010	Manganese	232	ug/L	10.0	05/23/21 09:05	
EPA 6010	Potassium	2970	ug/L	1000	05/23/21 09:05	
EPA 6010	Silica	14600	ug/L	450	05/23/21 09:05	N2
EPA 6010	Sodium	26800	ug/L	1000	05/23/21 09:05	
EPA 6010	Manganese, Dissolved	216	ug/L	10.0	05/25/21 02:54	
EPA 903.1	Radium-226	1.05 ± 0.594 (0.752) C:NA T:89%	pCi/L		06/22/21 14:06	
EPA 904.0	Radium-228	1.37 ± 0.495 (0.710) C:68% T:93%	pCi/L		06/18/21 14:09	
Total Radium Calculation	Total Radium	2.42 ± 1.09 (1.46)	pCi/L		06/22/21 17:18	
SM 2320B	Alkalinity, Total as CaCO3	352	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	352	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	485	mg/L	10.0	05/18/21 11:05	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/21/21 10:21	H3
<b>50287430004</b>	<b>MW-12S</b>					
EPA 9056	Chloride	86.6	mg/L	5.0	05/27/21 01:18	

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### SUMMARY OF DETECTION

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287430004</b>	<b>MW-12S</b>					
EPA 9056	Fluoride	0.28	mg/L	0.10	05/27/21 01:02	
EPA 9056	Sulfate	206	mg/L	5.0	05/27/21 01:18	
EPA 6010	Barium	99.4	ug/L	10.0	05/23/21 09:19	
EPA 6010	Boron	7680	ug/L	100	05/23/21 09:19	
EPA 6010	Calcium	122000	ug/L	1000	05/23/21 09:19	
EPA 6010	Lithium	113	ug/L	20.0	05/23/21 09:19	
EPA 6010	Magnesium	22700	ug/L	1000	05/23/21 09:19	
EPA 6010	Manganese	140	ug/L	10.0	05/23/21 09:19	
EPA 6010	Molybdenum	69.5	ug/L	10.0	05/23/21 09:19	
EPA 6010	Potassium	13200	ug/L	1000	05/23/21 09:19	
EPA 6010	Silica	11300	ug/L	450	05/23/21 09:19	N2
EPA 6010	Sodium	105000	ug/L	1000	05/23/21 09:19	
EPA 6010	Manganese, Dissolved	64.7	ug/L	10.0	05/25/21 03:08	
EPA 6010	Molybdenum, Dissolved	66.4	ug/L	10.0	05/25/21 03:08	
EPA 6020	Antimony	1.2	ug/L	1.0	05/25/21 01:37	
EPA 6020	Selenium	12.4	ug/L	1.0	05/25/21 01:37	
EPA 903.1	Radium-226	0.203 ± 0.440 (0.811)	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	C:NA T:96% 0.366 ± 0.511 (1.10)	pCi/L		06/18/21 17:31	
		C:69% T:92%				
Total Radium Calculation	Total Radium	0.569 ± 0.951 (1.91)	pCi/L		06/22/21 17:18	
SM 2320B	Alkalinity, Total as CaCO3	271	mg/L	2.0	05/15/21 10:58	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	271	mg/L	2.0	05/15/21 10:58	
SM 2540C	Total Dissolved Solids	722	mg/L	10.0	05/18/21 11:06	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/21/21 10:26	H3
EPA 353.2	Nitrogen, Nitrate	0.45	mg/L	0.10	05/14/21 12:52	
<b>50287430005</b>	<b>MW-9D MS</b>					
EPA 903.1	Radium-226	99.72 %REC ± NA (NA) C:NA T:NA%	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	107.97 %REC ± NA (NA) C:NA T:NA	pCi/L		06/18/21 17:30	
<b>50287430006</b>	<b>MW-9D MSD</b>					
EPA 903.1	Radium-226	108.22 %REC 8.18 RPD ± NA (NA) C:NA T:NA%	pCi/L		06/22/21 14:27	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287430006</b>	<b>MW-9D MSD</b>					
EPA 904.0	Radium-228	93.38 %REC 14.49 RPD ± NA (NA) C:NA T:NA	pCi/L		06/18/21 17:30	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9S	Lab ID: 50287430001	Collected: 05/13/21 12:44	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	283	mg/L	50.0	200		05/27/21 11:30	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		05/26/21 21:45	16984-48-8	
Sulfate	800	mg/L	50.0	200		05/27/21 11:30	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 09:00	7429-90-5	
Barium	65.1	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:00	7440-39-3	
Boron	2790	ug/L	100	1	05/21/21 06:55	05/23/21 09:00	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 09:00	7440-43-9	
Calcium	284000	ug/L	5000	5	05/21/21 06:55	05/24/21 14:35	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:00	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 09:00	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:00	7439-92-1	
Lithium	79.1	ug/L	20.0	1	05/21/21 06:55	05/23/21 09:00	7439-93-2	
Magnesium	65500	ug/L	1000	1	05/21/21 06:55	05/23/21 09:00	7439-95-4	
Manganese	725	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:00	7439-96-5	
Molybdenum	179	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:00	7439-98-7	
Potassium	15300	ug/L	1000	1	05/21/21 06:55	05/23/21 09:00	7440-09-7	
Silica	20600	ug/L	450	1	05/21/21 06:55	05/23/21 09:00	7631-86-9	N2
Sodium	244000	ug/L	5000	5	05/21/21 06:55	05/24/21 14:35	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	710	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:50	7439-96-5	
Molybdenum, Dissolved	187	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:50	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:04	7440-36-0	
Arsenic	2.9	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:04	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/23/21 08:17	05/26/21 16:30	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:04	7440-48-4	
Selenium	1.4	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:04	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:04	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/24/21 09:35	05/24/21 20:41	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	220	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	220	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9S	Lab ID: 50287430001	Collected: 05/13/21 12:44	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1840	mg/L	40.0	1		05/18/21 11:04		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/21/21 10:25		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:50		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.63	mg/L	0.10	1		05/14/21 12:39	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:39	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.75	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:23		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 02:18	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 14:43		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9I	Lab ID: 50287430002	Collected: 05/13/21 09:36	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	163	mg/L	5.0	20		05/26/21 23:07	16887-00-6	
Fluoride	0.35	mg/L	0.10	1		05/26/21 22:51	16984-48-8	
Sulfate	364	mg/L	5.0	20		05/26/21 23:07	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 09:03	7429-90-5	
Barium	129	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:03	7440-39-3	
Boron	590	ug/L	100	1	05/21/21 06:55	05/23/21 09:03	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 09:03	7440-43-9	
Calcium	122000	ug/L	1000	1	05/21/21 06:55	05/23/21 09:03	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:03	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 09:03	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:03	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 09:03	7439-93-2	
Magnesium	35300	ug/L	1000	1	05/21/21 06:55	05/23/21 09:03	7439-95-4	
Manganese	388	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:03	7439-96-5	
Molybdenum	10.8	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:03	7439-98-7	
Potassium	7690	ug/L	1000	1	05/21/21 06:55	05/23/21 09:03	7440-09-7	
Silica	10700	ug/L	450	1	05/21/21 06:55	05/23/21 09:03	7631-86-9	N2
Sodium	142000	ug/L	1000	1	05/21/21 06:55	05/23/21 09:03	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	380	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:52	7439-96-5	
Molybdenum, Dissolved	11.1	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:52	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:09	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:09	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/23/21 08:17	05/26/21 16:34	7440-41-7	
Cobalt	1.1	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:09	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:09	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:09	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/24/21 09:35	05/24/21 20:43	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	178	mg/L	2.0	1		05/15/21 10:58		
Alkalinity, Bicarbonate (CaCO3)	178	mg/L	2.0	1		05/15/21 10:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9I	Lab ID: 50287430002	Collected: 05/13/21 09:36	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	866	mg/L	20.0	1		05/18/21 11:04		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/21/21 10:20		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:50		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.84	mg/L	0.10	1		05/14/21 12:40	14797-55-8	
Nitrogen, Nitrite	0.12	mg/L	0.10	1		05/14/21 12:40	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:23		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 02:44	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 15:10		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9D	Lab ID: 50287430003	Collected: 05/13/21 10:41	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	49.8	mg/L	5.0	20		05/26/21 23:40	16887-00-6	
Fluoride	0.12	mg/L	0.10	1		05/26/21 23:24	16984-48-8	
Sulfate	37.8	mg/L	5.0	20		05/26/21 23:40	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 09:05	7429-90-5	
Barium	122	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:05	7440-39-3	
Boron	114	ug/L	100	1	05/21/21 06:55	05/23/21 09:05	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 09:05	7440-43-9	
Calcium	121000	ug/L	1000	1	05/21/21 06:55	05/23/21 09:05	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:05	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 09:05	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:05	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/21/21 06:55	05/23/21 09:05	7439-93-2	
Magnesium	30200	ug/L	1000	1	05/21/21 06:55	05/23/21 09:05	7439-95-4	
Manganese	232	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:05	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:05	7439-98-7	
Potassium	2970	ug/L	1000	1	05/21/21 06:55	05/23/21 09:05	7440-09-7	
Silica	14600	ug/L	450	1	05/21/21 06:55	05/23/21 09:05	7631-86-9	N2
Sodium	26800	ug/L	1000	1	05/21/21 06:55	05/23/21 09:05	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	216	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:54	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/24/21 06:56	05/25/21 02:54	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:14	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:14	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/23/21 08:17	05/26/21 16:48	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:14	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:14	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:14	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/24/21 09:35	05/24/21 20:46	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	352	mg/L	2.0	1		05/15/21 10:58		
Alkalinity, Bicarbonate (CaCO3)	352	mg/L	2.0	1		05/15/21 10:58		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-9D	Lab ID: 50287430003	Collected: 05/13/21 10:41	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	485	mg/L	10.0	1		05/18/21 11:05		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.9	Std. Units	0.10	1		05/21/21 10:21		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:50		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/14/21 12:42	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:42	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:25		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 03:09	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 15:35		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-12S	Lab ID: 50287430004	Collected: 05/13/21 14:05	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	86.6	mg/L	5.0	20		05/27/21 01:18	16887-00-6	
Fluoride	0.28	mg/L	0.10	1		05/27/21 01:02	16984-48-8	
Sulfate	206	mg/L	5.0	20		05/27/21 01:18	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/21/21 06:55	05/23/21 09:19	7429-90-5	
Barium	99.4	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:19	7440-39-3	
Boron	7680	ug/L	100	1	05/21/21 06:55	05/23/21 09:19	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/21/21 06:55	05/23/21 09:19	7440-43-9	
Calcium	122000	ug/L	1000	1	05/21/21 06:55	05/23/21 09:19	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:19	7440-47-3	
Iron	ND	ug/L	100	1	05/21/21 06:55	05/23/21 09:19	7439-89-6	
Lead	ND	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:19	7439-92-1	
Lithium	113	ug/L	20.0	1	05/21/21 06:55	05/23/21 09:19	7439-93-2	
Magnesium	22700	ug/L	1000	1	05/21/21 06:55	05/23/21 09:19	7439-95-4	
Manganese	140	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:19	7439-96-5	
Molybdenum	69.5	ug/L	10.0	1	05/21/21 06:55	05/23/21 09:19	7439-98-7	
Potassium	13200	ug/L	1000	1	05/21/21 06:55	05/23/21 09:19	7440-09-7	
Silica	11300	ug/L	450	1	05/21/21 06:55	05/23/21 09:19	7631-86-9	N2
Sodium	105000	ug/L	1000	1	05/21/21 06:55	05/23/21 09:19	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	64.7	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:08	7439-96-5	
Molybdenum, Dissolved	66.4	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:08	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.2	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:37	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:37	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/23/21 08:17	05/25/21 01:37	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:37	7440-48-4	
Selenium	12.4	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:37	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/23/21 08:17	05/25/21 01:37	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/24/21 09:35	05/24/21 20:52	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	271	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Bicarbonate (CaCO3)	271	mg/L	2.0	1		05/15/21 10:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/15/21 10:58		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Sample: MW-12S	Lab ID: 50287430004	Collected: 05/13/21 14:05	Received: 05/13/21 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	722	mg/L	10.0	1		05/18/21 11:06		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/21/21 10:26		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 10:29	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/14/21 14:51		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.45	mg/L	0.10	1		05/14/21 12:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 12:52	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/23/21 15:48	05/26/21 11:24		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/26/21 04:59	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/26/21 18:10		

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch:	622940	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2870505 Matrix: Water  
Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/26/21 21:13	
Fluoride	mg/L	ND	0.10	05/26/21 21:13	
Sulfate	mg/L	ND	0.25	05/26/21 21:13	

LABORATORY CONTROL SAMPLE: 2870506

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	0.54	107	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870507 2870508

Parameter	Units	50287430003		2870508		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Chloride	mg/L	49.8	25	25	68.4	68.3	74	74	80-120	0	15	M0	
Fluoride	mg/L	0.12	0.5	0.5	0.62	0.62	102	101	80-120	0	15		
Sulfate	mg/L	37.8	50	50	88.5	88.9	102	102	80-120	0	15		

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621804

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2865430

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/24/21 19:57	

LABORATORY CONTROL SAMPLE: 2865431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865432 2865433

Parameter	Units	50286646007		2865432		2865433		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Mercury	ug/L	ND	5	5	5.2	5.3	105	105	75-125	1	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865434 2865435

Parameter	Units	50287430003		2865434		2865435		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Mercury	ug/L	ND	5	5	5.4	5.5	108	109	75-125	1	20			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621184

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2862875

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/23/21 08:18	
Barium	ug/L	ND	10.0	05/23/21 08:18	
Boron	ug/L	ND	100	05/23/21 08:18	
Cadmium	ug/L	ND	2.0	05/23/21 08:18	
Calcium	ug/L	ND	1000	05/23/21 08:18	
Chromium	ug/L	ND	10.0	05/23/21 08:18	
Iron	ug/L	ND	100	05/23/21 08:18	
Lead	ug/L	ND	10.0	05/23/21 08:18	
Lithium	ug/L	ND	20.0	05/23/21 08:18	
Magnesium	ug/L	ND	1000	05/23/21 08:18	
Manganese	ug/L	ND	10.0	05/23/21 08:18	
Molybdenum	ug/L	ND	10.0	05/23/21 08:18	
Potassium	ug/L	ND	1000	05/23/21 08:18	
Silica	ug/L	ND	450	05/23/21 08:18	N2
Sodium	ug/L	ND	1000	05/23/21 08:18	

LABORATORY CONTROL SAMPLE: 2862876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1060	106	80-120	
Cadmium	ug/L	1000	994	99	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	998	100	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	972	97	80-120	
Magnesium	ug/L	10000	9740	97	80-120	
Manganese	ug/L	1000	991	99	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10100	95		N2
Sodium	ug/L	10000	10200	102	80-120	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862877 2862878														
Parameter	Units	50287430003		MS	MSD	2862878		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Aluminum	ug/L	ND	10000	10000	10000	10600	10400	106	104	75-125	2	20		
Barium	ug/L	122	1000	1000	1000	1170	1140	105	102	75-125	2	20		
Boron	ug/L	114	1000	1000	1000	1210	1190	110	108	75-125	1	20		
Cadmium	ug/L	ND	1000	1000	1000	1050	1030	105	103	75-125	2	20		
Calcium	ug/L	121000	10000	10000	10000	131000	129000	99	73	75-125	2	20	P6	
Chromium	ug/L	ND	1000	1000	1000	1040	1010	104	101	75-125	2	20		
Iron	ug/L	ND	10000	10000	10000	10400	10300	103	102	75-125	1	20		
Lead	ug/L	ND	1000	1000	1000	979	959	98	96	75-125	2	20		
Lithium	ug/L	ND	1000	1000	1000	1040	1010	103	101	75-125	2	20		
Magnesium	ug/L	30200	10000	10000	10000	40300	39300	101	91	75-125	3	20		
Manganese	ug/L	232	1000	1000	1000	1250	1230	102	100	75-125	2	20		
Molybdenum	ug/L	ND	1000	1000	1000	1070	1050	106	105	75-125	2	20		
Potassium	ug/L	2970	10000	10000	10000	13700	13500	108	106	75-125	1	20		
Silica	ug/L	14600	10700	10700	10700	25400	24700	101	94		3		N2	
Sodium	ug/L	26800	10000	10000	10000	37900	36900	111	101	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621756

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2865233

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/25/21 02:48	
Molybdenum, Dissolved	ug/L	ND	10.0	05/25/21 02:48	

LABORATORY CONTROL SAMPLE: 2865234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	894	89	80-120	
Molybdenum, Dissolved	ug/L	1000	933	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865235 2865236

Parameter	Units	50287430003 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	216	1000	1000	1210	1200	100	98	75-125	1	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1060	1050	105	105	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621954

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2866314

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/24/21 23:08	
Arsenic	ug/L	ND	1.0	05/24/21 23:08	
Beryllium	ug/L	ND	0.20	05/24/21 23:08	
Cobalt	ug/L	ND	1.0	05/24/21 23:08	
Selenium	ug/L	ND	1.0	05/24/21 23:08	
Thallium	ug/L	ND	1.0	05/24/21 23:08	

LABORATORY CONTROL SAMPLE: 2866315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.0	100	80-120	
Arsenic	ug/L	40	37.6	94	80-120	
Beryllium	ug/L	40	36.5	91	80-120	
Cobalt	ug/L	40	38.4	96	80-120	
Selenium	ug/L	40	39.2	98	80-120	
Thallium	ug/L	40	39.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866316 2866317

Parameter	Units	50286646007		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Antimony	ug/L	ND	40	40	41.5	41.5	104	104	75-125	0	20	
Arsenic	ug/L	0.0010	40	40	38.7	39.0	94	95	75-125	1	20	
Beryllium	ug/L	ND	40	40	37.5	38.3	94	96	75-125	2	20	
Cobalt	ug/L	ND	40	40	37.4	37.5	92	92	75-125	0	20	
Selenium	ug/L	ND	40	40	38.0	38.4	95	96	75-125	1	20	
Thallium	ug/L	ND	40	40	41.0	40.9	103	102	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866318 2866319

Parameter	Units	50287430003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Antimony	ug/L	ND	40	40	41.5	41.2	104	103	75-125	1	20	
Arsenic	ug/L	ND	40	40	37.5	36.7	93	91	75-125	2	20	
Beryllium	ug/L	ND	40	40	36.2	36.2	90	90	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866318 2866319													
Parameter	Units	50287430003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Cobalt	ug/L	ND	40	40	37.3	37.4	92	92	75-125	0	20		
Selenium	ug/L	ND	40	40	38.0	37.2	94	93	75-125	2	20		
Thallium	ug/L	ND	40	40	40.9	41.2	102	103	75-125	1	20		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch:	620849	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2861575 Matrix: Water  
Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/15/21 10:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/15/21 10:58	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/15/21 10:58	

LABORATORY CONTROL SAMPLE: 2861576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	90-110	

SAMPLE DUPLICATE: 2861577

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	352	356	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	352	356	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2861578

Parameter	Units	50287430004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	271	277	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	271	277	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621256

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2863057

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 10:54	

LABORATORY CONTROL SAMPLE: 2863058

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

SAMPLE DUPLICATE: 2863059

Parameter	Units	50287550005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1580	1580	1	10	

SAMPLE DUPLICATE: 2863060

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	485	481	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 622016

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: 50287430001, 50287430002, 50287430003, 50287430004

SAMPLE DUPLICATE: 2866652

Parameter	Units	50286646007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 2866653

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 621466

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: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2863944

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/19/21 10:29	

LABORATORY CONTROL SAMPLE: 2863945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863946 2863947

Parameter	Units	50287430003		2863946		2863947		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Sulfide	mg/L	ND	0.5	0.5	0.51	0.51	103	101	90-110	1	20

MATRIX SPIKE SAMPLE: 2863948

Parameter	Units	50287462001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.10	19	90-110	M0

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1  
Pace Project No.: 50287430

QC Batch: 620729	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2860781 Matrix: Water  
Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/14/21 14:49	H3,N2

LABORATORY CONTROL SAMPLE: 2860782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860783 2860784

Parameter	Units	50287430003 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	104	102	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 2860785

Parameter	Units	50287429001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	103	90-110	H3,N2

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 620780

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: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2861065

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/14/21 12:27	
Nitrogen, Nitrite	mg/L	ND	0.10	05/14/21 12:27	

LABORATORY CONTROL SAMPLE: 2861066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861067 2861068

Parameter	Units	50287430003 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	1.0	1.0	100	101	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	107	107	90-110	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch:	622301	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: 50287430001, 50287430002, 50287430004

METHOD BLANK: 2868173 Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/26/21 11:07	

LABORATORY CONTROL SAMPLE: 2868174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.7			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868175 2868176

Parameter	Units	50287368002 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	<0.15			1.7	1.7				1		

MATRIX SPIKE SAMPLE: 2868177

Parameter	Units	50287429003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.5			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 622302

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: 50287430003

METHOD BLANK: 2868178

Matrix: Water

Associated Lab Samples: 50287430003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/26/21 11:24	

LABORATORY CONTROL SAMPLE: 2868179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868180 2868181

Parameter	Units	50287430003		2868181		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		1.7	1.7				2		

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch:	622733	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2869623 Matrix: Water  
Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/25/21 20:48	

LABORATORY CONTROL SAMPLE: 2869624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869625 2869626

Parameter	Units	50287430003 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	9.2	9.2	92	92	80-120	0	20	

MATRIX SPIKE SAMPLE: 2869627

Parameter	Units	50287457001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.96	10	10.3	94	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 622734

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

METHOD BLANK: 2869628

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/26/21 12:21	

LABORATORY CONTROL SAMPLE: 2869629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869630 2869631

Parameter	Units	50287430003 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	9.5	9.2	95	92	80-120	3	20	

MATRIX SPIKE SAMPLE: 2869632

Parameter	Units	50287462003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	39.0	10	47.9	89	80-120	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

**Sample: MW-9S**      **Lab ID: 50287430001**      Collected: 05/13/21 12:44      Received: 05/13/21 15:05      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	<b>0.0532 ± 0.346 (0.697)</b> <b>C:NA T:97%</b>	pCi/L	06/22/21 14:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.571 ± 0.364 (0.683)</b> <b>C:74% T:90%</b>	pCi/L	06/18/21 14:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.624 ± 0.710 (1.38)</b>	pCi/L	06/22/21 17:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

**Sample: MW-9I**      **Lab ID: 50287430002**      Collected: 05/13/21 09:36      Received: 05/13/21 15:05      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	<b>0.461 ± 0.600 (1.00)</b> <b>C:NA T:90%</b>	pCi/L	06/22/21 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.735 ± 0.371 (0.634)</b> <b>C:70% T:94%</b>	pCi/L	06/18/21 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.20 ± 0.971 (1.63)</b>	pCi/L	06/22/21 17:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

**Sample: MW-9D**      **Lab ID: 50287430003**      Collected: 05/13/21 10:41      Received: 05/13/21 15:05      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	<b>1.05 ± 0.594 (0.752)</b> <b>C:NA T:89%</b>	pCi/L	06/22/21 14:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.37 ± 0.495 (0.710)</b> <b>C:68% T:93%</b>	pCi/L	06/18/21 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.42 ± 1.09 (1.46)</b>	pCi/L	06/22/21 17:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

**Sample: MW-12S**      **Lab ID: 50287430004**      Collected: 05/13/21 14:05      Received: 05/13/21 15:05      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	<b>0.203 ± 0.440 (0.811)</b> <b>C:NA T:96%</b>	pCi/L	06/22/21 14:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.366 ± 0.511 (1.10)</b> <b>C:69% T:92%</b>	pCi/L	06/18/21 17:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.569 ± 0.951 (1.91)</b>	pCi/L	06/22/21 17:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

**Sample: MW-9D MS**      **Lab ID: 50287430005**      Collected: 05/13/21 10:41      Received: 05/13/21 15:05      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	<b>99.72 %REC ± NA (NA)</b> <b>C:NA T:NA%</b>	pCi/L	06/22/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>107.97 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/18/21 17:30	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-9D MSD</b> <b>Lab ID: 50287430006</b> Collected: 05/13/21 10:41      Received: 05/13/21 15:05      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>108.22 %REC 8.18 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA%</b>	pCi/L	06/22/21 14:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>93.38 %REC 14.49 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/18/21 17:30	15262-20-1	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 451446

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: 50287430001, 50287430002, 50287430003, 50287430004, 50287430005, 50287430006

METHOD BLANK: 2178822

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004, 50287430005, 50287430006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0492 ± 0.348 (0.694) C:NA T:90%	pCi/L	06/22/21 14:06	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

QC Batch: 451447

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: 50287430001, 50287430002, 50287430003, 50287430004, 50287430005, 50287430006

METHOD BLANK: 2178823

Matrix: Water

Associated Lab Samples: 50287430001, 50287430002, 50287430003, 50287430004, 50287430005, 50287430006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.808 ± 0.405 (0.694) C:73% T:88%	pCi/L	06/18/21 14:28	

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## QUALIFIERS

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287430001	MW-9S	EPA 9056	622940		
50287430002	MW-9I	EPA 9056	622940		
50287430003	MW-9D	EPA 9056	622940		
50287430004	MW-12S	EPA 9056	622940		
50287430001	MW-9S	EPA 3010	621184	EPA 6010	622272
50287430002	MW-9I	EPA 3010	621184	EPA 6010	622272
50287430003	MW-9D	EPA 3010	621184	EPA 6010	622272
50287430004	MW-12S	EPA 3010	621184	EPA 6010	622272
50287430001	MW-9S	EPA 3010	621756	EPA 6010	622571
50287430002	MW-9I	EPA 3010	621756	EPA 6010	622571
50287430003	MW-9D	EPA 3010	621756	EPA 6010	622571
50287430004	MW-12S	EPA 3010	621756	EPA 6010	622571
50287430001	MW-9S	EPA 200.2	621954	EPA 6020	622329
50287430002	MW-9I	EPA 200.2	621954	EPA 6020	622329
50287430003	MW-9D	EPA 200.2	621954	EPA 6020	622329
50287430004	MW-12S	EPA 200.2	621954	EPA 6020	622329
50287430001	MW-9S	EPA 7470	621804	EPA 7470	622537
50287430002	MW-9I	EPA 7470	621804	EPA 7470	622537
50287430003	MW-9D	EPA 7470	621804	EPA 7470	622537
50287430004	MW-12S	EPA 7470	621804	EPA 7470	622537
50287430001	MW-9S	EPA 903.1	451446		
50287430002	MW-9I	EPA 903.1	451446		
50287430003	MW-9D	EPA 903.1	451446		
50287430004	MW-12S	EPA 903.1	451446		
50287430005	MW-9D MS	EPA 903.1	451446		
50287430006	MW-9D MSD	EPA 903.1	451446		
50287430001	MW-9S	EPA 904.0	451447		
50287430002	MW-9I	EPA 904.0	451447		
50287430003	MW-9D	EPA 904.0	451447		
50287430004	MW-12S	EPA 904.0	451447		
50287430005	MW-9D MS	EPA 904.0	451447		
50287430006	MW-9D MSD	EPA 904.0	451447		
50287430001	MW-9S	Total Radium Calculation	453606		
50287430002	MW-9I	Total Radium Calculation	453606		
50287430003	MW-9D	Total Radium Calculation	453606		
50287430004	MW-12S	Total Radium Calculation	453606		
50287430001	MW-9S	SM 2320B	620849		
50287430002	MW-9I	SM 2320B	620849		
50287430003	MW-9D	SM 2320B	620849		
50287430004	MW-12S	SM 2320B	620849		
50287430001	MW-9S	SM 2540C	621256		
50287430002	MW-9I	SM 2540C	621256		
50287430003	MW-9D	SM 2540C	621256		
50287430004	MW-12S	SM 2540C	621256		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley P1 R1

Pace Project No.: 50287430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287430001	MW-9S	SM 4500-H+B	622016		
50287430002	MW-9I	SM 4500-H+B	622016		
50287430003	MW-9D	SM 4500-H+B	622016		
50287430004	MW-12S	SM 4500-H+B	622016		
50287430001	MW-9S	SM 4500-S2-D	621466		
50287430002	MW-9I	SM 4500-S2-D	621466		
50287430003	MW-9D	SM 4500-S2-D	621466		
50287430004	MW-12S	SM 4500-S2-D	621466		
50287430001	MW-9S	HACH 8146	620729		
50287430002	MW-9I	HACH 8146	620729		
50287430003	MW-9D	HACH 8146	620729		
50287430004	MW-12S	HACH 8146	620729		
50287430001	MW-9S	EPA 353.2	620780		
50287430002	MW-9I	EPA 353.2	620780		
50287430003	MW-9D	EPA 353.2	620780		
50287430004	MW-12S	EPA 353.2	620780		
50287430001	MW-9S	EPA 365.1	622301	EPA 365.1	622749
50287430002	MW-9I	EPA 365.1	622301	EPA 365.1	622749
50287430003	MW-9D	EPA 365.1	622302	EPA 365.1	622750
50287430004	MW-12S	EPA 365.1	622301	EPA 365.1	622749
50287430001	MW-9S	SM 5310C	622733		
50287430002	MW-9I	SM 5310C	622733		
50287430003	MW-9D	SM 5310C	622733		
50287430004	MW-12S	SM 5310C	622733		
50287430001	MW-9S	SM 5310C	622734		
50287430002	MW-9I	SM 5310C	622734		
50287430003	MW-9D	SM 5310C	622734		
50287430004	MW-12S	SM 5310C	622734		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DAV 5/13/21 1600

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: 4.6/4.6, 2.8/2.8, 1.3/1.3  
 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 (&lt;2)</u> <u>H2SO4 (&lt;2)</u> NaOH (>10) <u>NaOH/ZnAc (&gt;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>1620</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 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:

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### 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													2			2	1	2	1	1	1			1			WT	✓	✓	
6												↓			↓	↓	↓	↓	↓	↓	↓		↓			↓	↓	↓		
7												6			6	3	6	3	3	3			3			↓	↓	↓		
8																														
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	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



September 22, 2021

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

RE: Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287573

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 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: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

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### 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

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### 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: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287573001	MW-18I	Water	05/14/21 09:52	05/14/21 16:30
50287573002	MW-18D	Water	05/14/21 10:37	05/14/21 16:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287573001	MW-18I	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	12	PASI-I
		EPA 6010	JPK	2	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	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	GWA	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		50287573002	MW-18D	EPA 9056	HBS
EPA 6010	KJE			12	PASI-I
EPA 6010	JPK			2	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	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	GWA			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: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287573001</b>	<b>MW-18I</b>					
EPA 9056	Chloride	48.3	mg/L	2.5	05/28/21 06:02	
EPA 9056	Sulfate	28.7	mg/L	2.5	05/28/21 06:02	
EPA 6010	Barium	96.0	ug/L	10.0	05/26/21 11:48	
EPA 6010	Boron	408	ug/L	100	05/26/21 11:48	
EPA 6010	Calcium	76800	ug/L	1000	05/26/21 11:48	
EPA 6010	Iron	216	ug/L	100	05/26/21 11:48	
EPA 6010	Lithium	53.8	ug/L	20.0	05/26/21 11:48	
EPA 6010	Magnesium	16100	ug/L	1000	05/26/21 11:48	
EPA 6010	Manganese	77.6	ug/L	10.0	05/26/21 11:48	
EPA 6010	Molybdenum	80.4	ug/L	10.0	05/26/21 11:48	
EPA 6010	Potassium	5910	ug/L	1000	05/26/21 11:48	
EPA 6010	Silica	11000	ug/L	450	05/26/21 11:48	N2
EPA 6010	Sodium	28900	ug/L	1000	05/26/21 11:48	
EPA 6010	Manganese, Dissolved	43.2	ug/L	10.0	05/25/21 03:12	
EPA 6010	Molybdenum, Dissolved	84.3	ug/L	10.0	05/25/21 03:12	
EPA 6020	Selenium	2.0	ug/L	1.0	05/27/21 00:05	
EPA 903.1	Radium-226	-0.0545 ± 0.414 (0.865)	pCi/L		06/22/21 12:18	
EPA 904.0	Radium-228	C:NA T:95% 0.680 ± 0.350 (0.601)	pCi/L		06/18/21 11:07	
		C:71% T:88%				
Total Radium Calculation	Total Radium	0.680 ± 0.764 (1.47)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	216	mg/L	2.0	05/17/21 17:28	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	216	mg/L	2.0	05/17/21 17:28	
SM 2540C	Total Dissolved Solids	372	mg/L	10.0	05/18/21 16:52	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/27/21 15:54	H3
EPA 353.2	Nitrogen, Nitrate	1.0	mg/L	0.10	05/14/21 16:57	
<b>50287573002</b>	<b>MW-18D</b>					
EPA 9056	Chloride	125	mg/L	2.5	05/28/21 07:08	
EPA 9056	Fluoride	0.11	mg/L	0.10	05/28/21 06:51	
EPA 9056	Sulfate	152	mg/L	2.5	05/28/21 07:08	
EPA 6010	Aluminum	1590	ug/L	200	05/26/21 11:50	
EPA 6010	Barium	77.6	ug/L	10.0	05/26/21 11:50	
EPA 6010	Boron	5270	ug/L	100	05/26/21 11:50	
EPA 6010	Calcium	108000	ug/L	1000	05/26/21 11:50	
EPA 6010	Iron	2640	ug/L	100	05/26/21 11:50	
EPA 6010	Lithium	99.0	ug/L	20.0	05/26/21 11:50	
EPA 6010	Magnesium	22200	ug/L	1000	05/26/21 11:50	
EPA 6010	Manganese	482	ug/L	10.0	05/26/21 11:50	
EPA 6010	Molybdenum	161	ug/L	10.0	05/26/21 11:50	
EPA 6010	Potassium	7840	ug/L	1000	05/26/21 11:50	
EPA 6010	Silica	19000	ug/L	450	05/26/21 11:50	N2
EPA 6010	Sodium	104000	ug/L	1000	05/26/21 11:50	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287573002</b>	<b>MW-18D</b>					
EPA 6010	Manganese, Dissolved	374	ug/L	10.0	05/25/21 03:14	
EPA 6010	Molybdenum, Dissolved	164	ug/L	10.0	05/25/21 03:14	
EPA 6020	Arsenic	1.7	ug/L	1.0	05/27/21 00:09	
EPA 6020	Cobalt	1.2	ug/L	1.0	05/27/21 00:09	
EPA 6020	Lead	3.8	ug/L	1.0	05/27/21 00:09	
EPA 903.1	Radium-226	0.000 ± 0.433 (0.876)	pCi/L		06/22/21 12:18	
EPA 904.0	Radium-228	C:NA T:96% 1.42 ± 0.456 (0.585)	pCi/L		06/18/21 11:07	
		C:72% T:97%				
Total Radium Calculation	Total Radium	1.42 ± 0.889 (1.46)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	258	mg/L	2.0	05/17/21 17:28	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	258	mg/L	2.0	05/17/21 17:28	
SM 2540C	Total Dissolved Solids	688	mg/L	10.0	05/18/21 16:52	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/27/21 15:57	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Sample: MW-181	Lab ID: 50287573001	Collected: 05/14/21 09:52	Received: 05/14/21 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	48.3	mg/L	2.5	10		05/28/21 06:02	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/28/21 05:46	16984-48-8	
Sulfate	28.7	mg/L	2.5	10		05/28/21 06:02	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 11:48	7429-90-5	
Barium	96.0	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:48	7440-39-3	
Boron	408	ug/L	100	1	05/25/21 14:56	05/26/21 11:48	7440-42-8	
Calcium	76800	ug/L	1000	1	05/25/21 14:56	05/26/21 11:48	7440-70-2	
Iron	216	ug/L	100	1	05/25/21 14:56	05/26/21 11:48	7439-89-6	
Lithium	53.8	ug/L	20.0	1	05/25/21 14:56	05/26/21 11:48	7439-93-2	
Magnesium	16100	ug/L	1000	1	05/25/21 14:56	05/26/21 11:48	7439-95-4	
Manganese	77.6	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:48	7439-96-5	
Molybdenum	80.4	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:48	7439-98-7	
Potassium	5910	ug/L	1000	1	05/25/21 14:56	05/26/21 11:48	7440-09-7	
Silica	11000	ug/L	450	1	05/25/21 14:56	05/26/21 11:48	7631-86-9	N2
Sodium	28900	ug/L	1000	1	05/25/21 14:56	05/26/21 11:48	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	43.2	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:12	7439-96-5	
Molybdenum, Dissolved	84.3	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:12	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:05	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:05	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:05	7440-48-4	
Lead	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:05	7439-92-1	
Selenium	2.0	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:05	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	216	mg/L	2.0	1		05/17/21 17:28		
Alkalinity,Bicarbonate (CaCO3)	216	mg/L	2.0	1		05/17/21 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/17/21 17:28		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	372	mg/L	10.0	1		05/18/21 16:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/27/21 15:54		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Sample: MW-18I	Lab ID: 50287573001	Collected: 05/14/21 09:52	Received: 05/14/21 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/19/21 12:16	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:37		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.0	mg/L	0.10	1		05/14/21 16:57	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 16:57	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/25/21 12:25	05/26/21 11:54		
<b>5310C TOC</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/27/21 02:13	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/27/21 01:54		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Sample: MW-18D	Lab ID: 50287573002	Collected: 05/14/21 10:37	Received: 05/14/21 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	125	mg/L	2.5	10		05/28/21 07:08	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		05/28/21 06:51	16984-48-8	
Sulfate	152	mg/L	2.5	10		05/28/21 07:08	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	1590	ug/L	200	1	05/25/21 14:56	05/26/21 11:50	7429-90-5	
Barium	77.6	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:50	7440-39-3	
Boron	5270	ug/L	100	1	05/25/21 14:56	05/26/21 11:50	7440-42-8	
Calcium	108000	ug/L	1000	1	05/25/21 14:56	05/26/21 11:50	7440-70-2	
Iron	2640	ug/L	100	1	05/25/21 14:56	05/26/21 11:50	7439-89-6	
Lithium	99.0	ug/L	20.0	1	05/25/21 14:56	05/26/21 11:50	7439-93-2	
Magnesium	22200	ug/L	1000	1	05/25/21 14:56	05/26/21 11:50	7439-95-4	
Manganese	482	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:50	7439-96-5	
Molybdenum	161	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:50	7439-98-7	
Potassium	7840	ug/L	1000	1	05/25/21 14:56	05/26/21 11:50	7440-09-7	
Silica	19000	ug/L	450	1	05/25/21 14:56	05/26/21 11:50	7631-86-9	N2
Sodium	104000	ug/L	1000	1	05/25/21 14:56	05/26/21 11:50	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	374	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:14	7439-96-5	
Molybdenum, Dissolved	164	ug/L	10.0	1	05/24/21 06:56	05/25/21 03:14	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:09	7440-36-0	
Arsenic	1.7	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:09	7440-38-2	
Cobalt	1.2	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:09	7440-48-4	
Lead	3.8	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:09	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/24/21 17:20	05/27/21 00:09	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	258	mg/L	2.0	1		05/17/21 17:28		
Alkalinity,Bicarbonate (CaCO3)	258	mg/L	2.0	1		05/17/21 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/17/21 17:28		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	688	mg/L	10.0	1		05/18/21 16:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/27/21 15:57		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Sample: MW-18D	Lab ID: 50287573002	Collected: 05/14/21 10:37	Received: 05/14/21 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/19/21 12:16	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:37		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/14/21 16:59	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/14/21 16:59	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/25/21 12:25	05/26/21 11:55		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/27/21 02:23	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/27/21 02:19		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 623217

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2871678

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/27/21 22:24	
Fluoride	mg/L	ND	0.10	05/27/21 22:24	
Sulfate	mg/L	ND	0.25	05/27/21 22:24	

LABORATORY CONTROL SAMPLE: 2871679

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	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871680 2871681

Parameter	Units	50287553003		2871681		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	13.5	12.5	12.5	26.7	26.7	105	105	80-120	0	15		
Fluoride	mg/L	0.14	0.5	0.5	0.61	0.62	94	95	80-120	1	15		
Sulfate	mg/L	93.1	25	25	122	122	117	117	80-120	0	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287573

QC Batch: 621964 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2866427 Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/26/21 11:03	
Barium	ug/L	ND	10.0	05/26/21 11:03	
Boron	ug/L	ND	100	05/26/21 11:03	
Calcium	ug/L	ND	1000	05/26/21 11:03	
Iron	ug/L	ND	100	05/26/21 11:03	
Lithium	ug/L	ND	20.0	05/26/21 11:03	
Magnesium	ug/L	ND	1000	05/26/21 11:03	
Manganese	ug/L	ND	10.0	05/26/21 11:03	
Molybdenum	ug/L	ND	10.0	05/26/21 11:03	
Potassium	ug/L	ND	1000	05/26/21 11:03	
Silica	ug/L	ND	450	05/26/21 11:03	N2
Sodium	ug/L	ND	1000	05/26/21 11:03	

LABORATORY CONTROL SAMPLE: 2866428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9440	94	80-120	
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	968	97	80-120	
Calcium	ug/L	10000	9860	99	80-120	
Iron	ug/L	10000	9790	98	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9280	93	80-120	
Manganese	ug/L	1000	966	97	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9860	99	80-120	
Silica	ug/L	10700	9730	91		N2
Sodium	ug/L	10000	9790	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866429 2866430

Parameter	Units	2866429		2866430		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Aluminum	ug/L	5770	10000	17100	17000	114	113	75-125	1	20	
Barium	ug/L	142	1000	1160	1130	101	99	75-125	2	20	
Boron	ug/L	1070	1000	2130	2070	106	100	75-125	3	20	
Calcium	ug/L	2760	10000	12700	12500	100	97	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866429 2866430														
Parameter	Units	50287550007		MS	MSD	2866430		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Iron	ug/L	3830	10000	10000	10000	13700	13400	99	96	75-125	2	20		
Lithium	ug/L	32.1	1000	1000	1000	1050	1030	102	100	75-125	2	20		
Magnesium	ug/L	2050	10000	10000	10000	11600	11300	96	92	75-125	3	20		
Manganese	ug/L	52.6	1000	1000	1000	1020	994	97	94	75-125	2	20		
Molybdenum	ug/L	27.0	1000	1000	1000	1030	1010	101	99	75-125	2	20		
Potassium	ug/L	3330	10000	10000	10000	13800	13400	104	101	75-125	2	20		
Silica	ug/L	25600	10700	10700	10700	39400	39700	129	132		1	N2		
Sodium	ug/L	622000	10000	10000	10000	632000	610000	104	-114	75-125	4	20 E,P6		

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 621756

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2865233

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/25/21 02:48	
Molybdenum, Dissolved	ug/L	ND	10.0	05/25/21 02:48	

LABORATORY CONTROL SAMPLE: 2865234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	894	89	80-120	
Molybdenum, Dissolved	ug/L	1000	933	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865235 2865236

Parameter	Units	50287430003 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	216	1000	1000	1210	1200	100	98	75-125	1	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1060	1050	105	105	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 622370

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2868338

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/26/21 14:16	
Arsenic	ug/L	ND	1.0	05/26/21 14:16	
Cobalt	ug/L	ND	1.0	05/26/21 14:16	
Lead	ug/L	ND	1.0	05/26/21 14:16	
Selenium	ug/L	ND	1.0	05/26/21 14:16	

LABORATORY CONTROL SAMPLE: 2868339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.2	101	80-120	
Arsenic	ug/L	40	38.7	97	80-120	
Cobalt	ug/L	40	40.7	102	80-120	
Lead	ug/L	40	39.9	100	80-120	
Selenium	ug/L	40	37.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868340 2868341

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287458007 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	<2.0	40	40	41.9	41.8	105	104	75-125	0	20
Arsenic	ug/L	<1.0	40	40	38.5	38.8	95	95	75-125	1	20
Cobalt	ug/L	<15.0	40	40	38.4	38.1	96	95	75-125	1	20
Lead	ug/L	<1.0	40	40	39.6	39.6	98	99	75-125	0	20
Selenium	ug/L	<2.0	40	40	36.1	38.7	90	96	75-125	7	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 621072

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2862470

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/17/21 17:28	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/17/21 17:28	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/17/21 17:28	

LABORATORY CONTROL SAMPLE: 2862471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	90-110	

SAMPLE DUPLICATE: 2862472

Parameter	Units	50287457001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	263	270	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	263	270	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	ND		20	

SAMPLE DUPLICATE: 2862473

Parameter	Units	50287457003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	276	277	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	276	277	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 621260

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2863071

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 16:47	

LABORATORY CONTROL SAMPLE: 2863072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	280	93	80-120	

SAMPLE DUPLICATE: 2863073

Parameter	Units	50287550007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1530	1520	0	10	

SAMPLE DUPLICATE: 2863074

Parameter	Units	50287550008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1160	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 623200

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: 50287573001, 50287573002

SAMPLE DUPLICATE: 2871598

Parameter	Units	50287550007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	2	H3

SAMPLE DUPLICATE: 2871599

Parameter	Units	50287573001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 621468

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: 50287573001, 50287573002

METHOD BLANK: 2863953

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/19/21 13:24	

LABORATORY CONTROL SAMPLE: 2863954

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: 2863955 2863956

Parameter	Units	50287462002 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	.051J	.038J	10	7	90-110		20	M3

MATRIX SPIKE SAMPLE: 2863957

Parameter	Units	50287585001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.032J	0.5	0.49	91	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 622594

Analysis Method: HACH 8146

QC Batch Method: HACH 8146

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2869009

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:37	H3,N2

LABORATORY CONTROL SAMPLE: 2869010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	104	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869011 2869012

Parameter	Units	50288037002		2869012		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	102	101	90-110	1	20	H3,N2

MATRIX SPIKE SAMPLE: 2869013

Parameter	Units	50287762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.1	106	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2  
Pace Project No.: 50287573

QC Batch: 620780      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: 50287573001, 50287573002

METHOD BLANK: 2861065      Matrix: Water  
Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/14/21 12:27	
Nitrogen, Nitrite	mg/L	ND	0.10	05/14/21 12:27	

LABORATORY CONTROL SAMPLE: 2861066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861067      2861068

Parameter	Units	50287430003 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	1.0	1.0	100	101	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.1	1.1	107	107	90-110	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 622642

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: 50287573001, 50287573002

METHOD BLANK: 2869177

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/26/21 11:53	

LABORATORY CONTROL SAMPLE: 2869178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869179 2869180

Parameter	Units	50287573001		2869180		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	1.7				8		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 622982

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2870696

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/26/21 23:24	

LABORATORY CONTROL SAMPLE: 2870697

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: 2870698 2870699

Parameter	Units	50287531004		2870699		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	ND	10	10	8.4	8.4	84	84	80-120	0	20

MATRIX SPIKE SAMPLE: 2870700

Parameter	Units	50287458004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<500 ug/L	10	8.7	87	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 622984

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287573001, 50287573002

METHOD BLANK: 2870709

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/27/21 01:08	

LABORATORY CONTROL SAMPLE: 2870710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870711 2870712

Parameter	Units	50287685003		2870711		2870712		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Dissolved Organic Carbon	mg/L	38.2	40	40	40	75.3	74.9	93	92	80-120	1	20

MATRIX SPIKE SAMPLE: 2870713

Parameter	Units	50287762002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	10.3	96	80-120	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

**Sample: MW-181**      **Lab ID: 50287573001**      Collected: 05/14/21 09:52      Received: 05/14/21 16:30      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	<b>-0.0545 ± 0.414 (0.865)</b> <b>C:NA T:95%</b>	pCi/L	06/22/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.680 ± 0.350 (0.601)</b> <b>C:71% T:88%</b>	pCi/L	06/18/21 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.680 ± 0.764 (1.47)</b>	pCi/L	06/22/21 17:09	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

**Sample: MW-18D**      **Lab ID: 50287573002**      Collected: 05/14/21 10:37      Received: 05/14/21 16:30      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	<b>0.000 ± 0.433 (0.876)</b> <b>C:NA T:96%</b>	pCi/L	06/22/21 12:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.42 ± 0.456 (0.585)</b> <b>C:72% T:97%</b>	pCi/L	06/18/21 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.42 ± 0.889 (1.46)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 451442

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: 50287573001, 50287573002

METHOD BLANK: 2178817

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.114 ± 0.224 (0.537) C:NA T:104%	pCi/L	06/22/21 12:18	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

QC Batch: 451443

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: 50287573001, 50287573002

METHOD BLANK: 2178819

Matrix: Water

Associated Lab Samples: 50287573001, 50287573002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.386 ± 0.305 (0.600) C:73% T:91%	pCi/L	06/18/21 11:11	

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## QUALIFIERS

Project: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

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.

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: Eagle Valley Profile1 Report2

Pace Project No.: 50287573

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287573001	MW-18I	EPA 9056	623217		
50287573002	MW-18D	EPA 9056	623217		
50287573001	MW-18I	EPA 3010	621964	EPA 6010	622877
50287573002	MW-18D	EPA 3010	621964	EPA 6010	622877
50287573001	MW-18I	EPA 3010	621756	EPA 6010	622571
50287573002	MW-18D	EPA 3010	621756	EPA 6010	622571
50287573001	MW-18I	EPA 200.2	622370	EPA 6020	622566
50287573002	MW-18D	EPA 200.2	622370	EPA 6020	622566
50287573001	MW-18I	EPA 903.1	451442		
50287573002	MW-18D	EPA 903.1	451442		
50287573001	MW-18I	EPA 904.0	451443		
50287573002	MW-18D	EPA 904.0	451443		
50287573001	MW-18I	Total Radium Calculation	453604		
50287573002	MW-18D	Total Radium Calculation	453604		
50287573001	MW-18I	SM 2320B	621072		
50287573002	MW-18D	SM 2320B	621072		
50287573001	MW-18I	SM 2540C	621260		
50287573002	MW-18D	SM 2540C	621260		
50287573001	MW-18I	SM 4500-H+B	623200		
50287573002	MW-18D	SM 4500-H+B	623200		
50287573001	MW-18I	SM 4500-S2-D	621468		
50287573002	MW-18D	SM 4500-S2-D	621468		
50287573001	MW-18I	HACH 8146	622594		
50287573002	MW-18D	HACH 8146	622594		
50287573001	MW-18I	EPA 353.2	620780		
50287573002	MW-18D	EPA 353.2	620780		
50287573001	MW-18I	EPA 365.1	622642	EPA 365.1	622752
50287573002	MW-18D	EPA 365.1	622642	EPA 365.1	622752
50287573001	MW-18I	SM 5310C	622982		
50287573002	MW-18D	SM 5310C	622982		
50287573001	MW-18I	SM 5310C	622984		
50287573002	MW-18D	SM 5310C	622984		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DMP 5/14/21 16:36

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**  
0.6/0.6
4. Cooler Temperature: 0.6/0.6  
 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: <u>NO<sub>3</sub>/NO<sub>2</sub> 3532</u>	<input checked="" type="checkbox"/>		Circle: HNO <sub>3</sub> (<2) H <sub>2</sub> SO <sub>4</sub> (<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: <u>17:00</u>		<input checked="" type="checkbox"/>	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"/>	<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)		<u>N/A</u>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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July 27, 2021

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

RE: Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287762

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 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: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287762001	MW-7S	Water	05/17/21 14:02	05/18/21 14:10
50287762002	MW-11S	Water	05/17/21 12:27	05/18/21 14:10
50287762003	MW-11I	Water	05/17/21 11:14	05/18/21 14:10
50287762004	MW-11D	Water	05/17/21 10:17	05/18/21 14:10
50287762005	DUP 1	Water	05/17/21 12:00	05/18/21 14:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287762001	MW-7S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	KJE	15	PASI-I		
		EPA 6010	JDG	2	PASI-I		
		EPA 6020	CAW	6	PASI-I		
		EPA 7470	ILP	1	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	JC2	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	DAS	3	PASI-I		
		SM 2540C	WZE	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	SLB	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50287762002	MW-11S	EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JDG	2	PASI-I
EPA 6020	CAW			6	PASI-I		
EPA 7470	ILP			1	PASI-I		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	JC2			1	PASI-PA		
Total Radium Calculation	RMK			1	PASI-PA		
SM 2320B	DAS			3	PASI-I		
SM 2540C	WZE			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	SLB			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50287762003	MW-11I			EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JDG	2	PASI-I

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287762004	MW-11D	EPA 6020	CAW	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	DAS	3	PASI-I
		SM 2540C	WZE	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	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	HBS	3	PASI-I
		EPA 6010	KJE	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	DAS	3	PASI-I
		SM 2540C	WZE	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	SLB	2	PASI-I		
EPA 365.1	SKK	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
SM 5310C	GWA	1	PASI-I		
50287762005	DUP 1	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	15	PASI-I
		EPA 6010	JDG	2	PASI-I
		EPA 6020	CAW	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	DAS	3	PASI-I
		SM 2540C	WZE	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	SLB	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

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287762001</b>	<b>MW-7S</b>					
EPA 9056	Chloride	149	mg/L	25.0	06/01/21 14:43	
EPA 9056	Sulfate	436	mg/L	25.0	06/01/21 14:43	
EPA 6010	Barium	106	ug/L	10.0	05/26/21 11:54	
EPA 6010	Boron	1520	ug/L	100	05/26/21 11:54	
EPA 6010	Calcium	233000	ug/L	2000	05/26/21 12:10	
EPA 6010	Iron	296	ug/L	100	05/26/21 11:54	
EPA 6010	Lithium	31.1	ug/L	20.0	05/26/21 11:54	
EPA 6010	Magnesium	48900	ug/L	1000	05/26/21 11:54	
EPA 6010	Manganese	412	ug/L	10.0	05/26/21 11:54	
EPA 6010	Molybdenum	39.9	ug/L	10.0	05/26/21 11:54	
EPA 6010	Potassium	6050	ug/L	1000	05/26/21 11:54	
EPA 6010	Silica	15200	ug/L	450	05/26/21 11:54	N2
EPA 6010	Sodium	124000	ug/L	1000	05/26/21 11:54	
EPA 6010	Manganese, Dissolved	343	ug/L	10.0	05/24/21 09:47	
EPA 6010	Molybdenum, Dissolved	37.5	ug/L	10.0	05/24/21 09:47	
EPA 6020	Antimony	2.7	ug/L	1.0	05/27/21 23:26	
EPA 6020	Selenium	22.7	ug/L	1.0	05/27/21 23:26	
EPA 903.1	Radium-226	0.180 ± 0.540 (1.00) C:NA T:95%	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	0.547 ± 0.520 (1.07) C:69% T:100%	pCi/L		06/18/21 17:31	
Total Radium Calculation	Total Radium	0.727 ± 1.06 (2.07)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	356	mg/L	2.0	05/20/21 17:13	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	356	mg/L	2.0	05/20/21 17:13	
SM 2540C	Total Dissolved Solids	1270	mg/L	20.0	05/20/21 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/28/21 10:26	H3
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	05/19/21 07:13	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	05/27/21 10:56	
<b>50287762002</b>	<b>MW-11S</b>					
EPA 9056	Chloride	58.7	mg/L	2.5	06/01/21 15:49	
EPA 9056	Fluoride	0.16	mg/L	0.10	06/01/21 15:33	
EPA 9056	Sulfate	236	mg/L	2.5	06/01/21 15:49	
EPA 6010	Barium	123	ug/L	10.0	05/26/21 11:57	
EPA 6010	Boron	3810	ug/L	100	05/26/21 11:57	
EPA 6010	Calcium	153000	ug/L	1000	05/26/21 11:57	
EPA 6010	Lithium	114	ug/L	20.0	05/26/21 11:57	
EPA 6010	Magnesium	38700	ug/L	1000	05/26/21 11:57	
EPA 6010	Molybdenum	69.3	ug/L	10.0	05/26/21 11:57	
EPA 6010	Potassium	10400	ug/L	1000	05/26/21 11:57	
EPA 6010	Silica	12200	ug/L	450	05/26/21 11:57	N2
EPA 6010	Sodium	75100	ug/L	1000	05/26/21 11:57	
EPA 6010	Molybdenum, Dissolved	68.1	ug/L	10.0	05/24/21 09:53	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287762002</b>	<b>MW-11S</b>					
EPA 6020	Antimony	1.5	ug/L	1.0	05/27/21 23:35	
EPA 6020	Arsenic	110	ug/L	1.0	05/27/21 23:35	
EPA 6020	Selenium	11.1	ug/L	1.0	05/27/21 23:35	
EPA 903.1	Radium-226	0.0567 ± 0.259 (0.526)	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	C:NA T:93% 0.243 ± 0.522 (1.16)	pCi/L		06/18/21 17:31	
		C:71% T:85%				
Total Radium Calculation	Total Radium	0.300 ± 0.781 (1.69)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	404	mg/L	2.0	05/20/21 17:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	404	mg/L	2.0	05/20/21 17:13	
SM 2540C	Total Dissolved Solids	808	mg/L	20.0	05/20/21 13:42	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/28/21 10:55	H3
EPA 353.2	Nitrogen, Nitrate	0.73	mg/L	0.10	05/19/21 07:11	
EPA 365.1	Phosphate as P04	0.45	mg/L	0.15	05/26/21 14:53	
<b>50287762003</b>	<b>MW-11I</b>					
EPA 9056	Chloride	85.2	mg/L	25.0	06/01/21 16:22	
EPA 9056	Fluoride	0.40	mg/L	0.10	06/01/21 16:05	
EPA 9056	Sulfate	85.6	mg/L	25.0	06/01/21 16:22	
EPA 6010	Barium	53.0	ug/L	10.0	05/26/21 11:59	
EPA 6010	Boron	2070	ug/L	100	05/26/21 11:59	
EPA 6010	Calcium	72200	ug/L	1000	05/26/21 11:59	
EPA 6010	Iron	176	ug/L	100	05/26/21 11:59	
EPA 6010	Lithium	107	ug/L	20.0	05/26/21 11:59	
EPA 6010	Magnesium	19700	ug/L	1000	05/26/21 11:59	
EPA 6010	Manganese	239	ug/L	10.0	05/26/21 11:59	
EPA 6010	Molybdenum	152	ug/L	10.0	05/26/21 11:59	
EPA 6010	Potassium	7160	ug/L	1000	05/26/21 11:59	
EPA 6010	Silica	10200	ug/L	450	05/26/21 11:59	N2
EPA 6010	Sodium	79400	ug/L	1000	05/26/21 11:59	
EPA 6010	Manganese, Dissolved	228	ug/L	10.0	05/24/21 09:56	
EPA 6010	Molybdenum, Dissolved	147	ug/L	10.0	05/24/21 09:56	
EPA 6020	Arsenic	1.2	ug/L	1.0	05/27/21 23:40	
EPA 903.1	Radium-226	0.864 ± 0.515 (0.489)	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	C:NA T:90% 0.833 ± 0.717 (1.46)	pCi/L		06/18/21 17:31	
		C:75% T:83%				
Total Radium Calculation	Total Radium	1.70 ± 1.23 (1.95)	pCi/L		06/22/21 17:09	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287762003</b>	<b>MW-11I</b>					
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	2.0	05/20/21 17:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	225	mg/L	2.0	05/20/21 17:13	
SM 2540C	Total Dissolved Solids	477	mg/L	10.0	05/20/21 13:44	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/28/21 10:56	H3
EPA 365.1	Phosphate as P04	0.15	mg/L	0.15	05/26/21 14:54	
<b>50287762004</b>	<b>MW-11D</b>					
EPA 9056	Chloride	99.4	mg/L	25.0	06/01/21 16:55	
EPA 9056	Fluoride	0.25	mg/L	0.10	06/01/21 16:38	
EPA 9056	Sulfate	122	mg/L	25.0	06/01/21 16:55	
EPA 6010	Barium	55.0	ug/L	10.0	05/26/21 12:01	
EPA 6010	Boron	2480	ug/L	100	05/26/21 12:01	
EPA 6010	Calcium	76200	ug/L	1000	05/26/21 12:01	
EPA 6010	Iron	874	ug/L	100	05/26/21 12:01	
EPA 6010	Lithium	84.1	ug/L	20.0	05/26/21 12:01	
EPA 6010	Magnesium	20200	ug/L	1000	05/26/21 12:01	
EPA 6010	Manganese	267	ug/L	10.0	05/26/21 12:01	
EPA 6010	Molybdenum	173	ug/L	10.0	05/26/21 12:01	
EPA 6010	Potassium	6760	ug/L	1000	05/26/21 12:01	
EPA 6010	Silica	11000	ug/L	450	05/26/21 12:01	N2
EPA 6010	Sodium	91400	ug/L	1000	05/26/21 12:01	
EPA 6010	Manganese, Dissolved	258	ug/L	10.0	05/24/21 09:58	
EPA 6010	Molybdenum, Dissolved	170	ug/L	10.0	05/24/21 09:58	
EPA 6020	Arsenic	5.1	ug/L	1.0	05/27/21 23:44	
EPA 903.1	Radium-226	6.86 ± 1.57 (0.879) C:NA T:91%	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	0.246 ± 0.604 (1.34) C:67% T:91%	pCi/L		06/18/21 17:31	
Total Radium Calculation	Total Radium	7.11 ± 2.17 (2.22)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	200	mg/L	2.0	05/20/21 17:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	200	mg/L	2.0	05/20/21 17:13	
SM 2540C	Total Dissolved Solids	546	mg/L	10.0	05/20/21 13:45	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/28/21 10:57	H3
<b>50287762005</b>	<b>DUP 1</b>					
EPA 9056	Chloride	90.4	mg/L	25.0	06/01/21 17:27	
EPA 9056	Fluoride	0.40	mg/L	0.10	06/01/21 17:11	
EPA 9056	Sulfate	91.0	mg/L	25.0	06/01/21 17:27	
EPA 6010	Barium	53.7	ug/L	10.0	05/26/21 12:03	
EPA 6010	Boron	2080	ug/L	100	05/26/21 12:03	
EPA 6010	Calcium	72900	ug/L	1000	05/26/21 12:03	
EPA 6010	Iron	182	ug/L	100	05/26/21 12:03	
EPA 6010	Lithium	107	ug/L	20.0	05/26/21 12:03	
EPA 6010	Magnesium	20000	ug/L	1000	05/26/21 12:03	
EPA 6010	Manganese	240	ug/L	10.0	05/26/21 12:03	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287762005</b>	<b>DUP 1</b>					
EPA 6010	Molybdenum	151	ug/L	10.0	05/26/21 12:03	
EPA 6010	Potassium	7160	ug/L	1000	05/26/21 12:03	
EPA 6010	Silica	10300	ug/L	450	05/26/21 12:03	N2
EPA 6010	Sodium	80300	ug/L	1000	05/26/21 12:03	
EPA 6010	Manganese, Dissolved	231	ug/L	10.0	05/24/21 10:00	
EPA 6010	Molybdenum, Dissolved	148	ug/L	10.0	05/24/21 10:00	
EPA 6020	Arsenic	1.1	ug/L	1.0	05/27/21 23:49	
EPA 903.1	Radium-226	0.853 ± 0.508 (0.483)	pCi/L		06/22/21 14:27	
EPA 904.0	Radium-228	C:NA T:87% -0.157 ± 0.539 (1.28)	pCi/L		06/18/21 17:31	
		C:71% T:84%				
Total Radium Calculation	Total Radium	0.853 ± 1.05 (1.76)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	220	mg/L	2.0	05/20/21 17:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	220	mg/L	2.0	05/20/21 17:13	
SM 2540C	Total Dissolved Solids	501	mg/L	10.0	05/20/21 13:46	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/28/21 10:59	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-7S	Lab ID: 50287762001	Collected: 05/17/21 14:02	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	149	mg/L	25.0	100		06/01/21 14:43	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/01/21 14:27	16984-48-8	
Sulfate	436	mg/L	25.0	100		06/01/21 14:43	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 11:54	7429-90-5	
Barium	106	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:54	7440-39-3	
Boron	1520	ug/L	100	1	05/25/21 14:56	05/26/21 11:54	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/25/21 14:56	05/26/21 11:54	7440-43-9	
Calcium	233000	ug/L	2000	2	05/25/21 14:56	05/26/21 12:10	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:54	7440-47-3	
Iron	296	ug/L	100	1	05/25/21 14:56	05/26/21 11:54	7439-89-6	
Lead	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:54	7439-92-1	
Lithium	31.1	ug/L	20.0	1	05/25/21 14:56	05/26/21 11:54	7439-93-2	
Magnesium	48900	ug/L	1000	1	05/25/21 14:56	05/26/21 11:54	7439-95-4	
Manganese	412	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:54	7439-96-5	
Molybdenum	39.9	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:54	7439-98-7	
Potassium	6050	ug/L	1000	1	05/25/21 14:56	05/26/21 11:54	7440-09-7	
Silica	15200	ug/L	450	1	05/25/21 14:56	05/26/21 11:54	7631-86-9	N2
Sodium	124000	ug/L	1000	1	05/25/21 14:56	05/26/21 11:54	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	343	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:47	7439-96-5	
Molybdenum, Dissolved	37.5	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:47	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	2.7	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:26	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:26	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/27/21 23:26	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:26	7440-48-4	
Selenium	22.7	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:26	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:26	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/25/21 20:52	05/26/21 08:39	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	356	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Bicarbonate (CaCO3)	356	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/20/21 17:13		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-7S	Lab ID: 50287762001	Collected: 05/17/21 14:02	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>1270</b>	mg/L	20.0	1		05/20/21 13:33		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.4</b>	Std. Units	0.10	1		05/28/21 10:26		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:41		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>1.9</b>	mg/L	0.10	1		05/19/21 07:13	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 07:13	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/26/21 11:57	05/26/21 14:51		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 15:58	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>1.2</b>	mg/L	1.0	1		05/27/21 10:56		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-11S	Lab ID: 50287762002	Collected: 05/17/21 12:27	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	58.7	mg/L	2.5	10		06/01/21 15:49	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		06/01/21 15:33	16984-48-8	
Sulfate	236	mg/L	2.5	10		06/01/21 15:49	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 11:57	7429-90-5	
Barium	123	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:57	7440-39-3	
Boron	3810	ug/L	100	1	05/25/21 14:56	05/26/21 11:57	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/25/21 14:56	05/26/21 11:57	7440-43-9	
Calcium	153000	ug/L	1000	1	05/25/21 14:56	05/26/21 11:57	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:57	7440-47-3	
Iron	ND	ug/L	100	1	05/25/21 14:56	05/26/21 11:57	7439-89-6	
Lead	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:57	7439-92-1	
Lithium	114	ug/L	20.0	1	05/25/21 14:56	05/26/21 11:57	7439-93-2	
Magnesium	38700	ug/L	1000	1	05/25/21 14:56	05/26/21 11:57	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:57	7439-96-5	
Molybdenum	69.3	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:57	7439-98-7	
Potassium	10400	ug/L	1000	1	05/25/21 14:56	05/26/21 11:57	7440-09-7	
Silica	12200	ug/L	450	1	05/25/21 14:56	05/26/21 11:57	7631-86-9	N2
Sodium	75100	ug/L	1000	1	05/25/21 14:56	05/26/21 11:57	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:53	7439-96-5	
Molybdenum, Dissolved	68.1	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:53	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.5	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:35	7440-36-0	
Arsenic	110	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:35	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/27/21 23:35	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:35	7440-48-4	
Selenium	11.1	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:35	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:35	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/25/21 20:52	05/26/21 08:49	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	404	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Bicarbonate (CaCO3)	404	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/20/21 17:13		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-11S	Lab ID: 50287762002	Collected: 05/17/21 12:27	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>808</b>	mg/L	20.0	1		05/20/21 13:42		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		05/28/21 10:55		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:40		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>0.73</b>	mg/L	0.10	1		05/19/21 07:11	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 07:11	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	<b>0.45</b>	mg/L	0.15	1	05/26/21 11:57	05/26/21 14:53		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 16:24	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/27/21 11:22		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-111		Lab ID: 50287762003		Collected: 05/17/21 11:14		Received: 05/18/21 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>9056 IC Anions</b>									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	85.2	mg/L	25.0	100		06/01/21 16:22	16887-00-6		
Fluoride	0.40	mg/L	0.10	1		06/01/21 16:05	16984-48-8		
Sulfate	85.6	mg/L	25.0	100		06/01/21 16:22	14808-79-8		
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 11:59	7429-90-5		
Barium	53.0	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:59	7440-39-3		
Boron	2070	ug/L	100	1	05/25/21 14:56	05/26/21 11:59	7440-42-8		
Cadmium	ND	ug/L	2.0	1	05/25/21 14:56	05/26/21 11:59	7440-43-9		
Calcium	72200	ug/L	1000	1	05/25/21 14:56	05/26/21 11:59	7440-70-2		
Chromium	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:59	7440-47-3		
Iron	176	ug/L	100	1	05/25/21 14:56	05/26/21 11:59	7439-89-6		
Lead	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:59	7439-92-1		
Lithium	107	ug/L	20.0	1	05/25/21 14:56	05/26/21 11:59	7439-93-2		
Magnesium	19700	ug/L	1000	1	05/25/21 14:56	05/26/21 11:59	7439-95-4		
Manganese	239	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:59	7439-96-5		
Molybdenum	152	ug/L	10.0	1	05/25/21 14:56	05/26/21 11:59	7439-98-7		
Potassium	7160	ug/L	1000	1	05/25/21 14:56	05/26/21 11:59	7440-09-7		
Silica	10200	ug/L	450	1	05/25/21 14:56	05/26/21 11:59	7631-86-9	N2	
Sodium	79400	ug/L	1000	1	05/25/21 14:56	05/26/21 11:59	7440-23-5		
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	228	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:56	7439-96-5		
Molybdenum, Dissolved	147	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:56	7439-98-7		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:40	7440-36-0		
Arsenic	1.2	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:40	7440-38-2		
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/27/21 23:40	7440-41-7		
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:40	7440-48-4		
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:40	7782-49-2		
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:40	7440-28-0		
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	2.0	1	05/25/21 20:52	05/26/21 08:51	7439-97-6		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	225	mg/L	2.0	1		05/20/21 17:13			
Alkalinity,Bicarbonate (CaCO3)	225	mg/L	2.0	1		05/20/21 17:13			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/20/21 17:13			

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-111	Lab ID: 50287762003	Collected: 05/17/21 11:14	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	477	mg/L	10.0	1		05/20/21 13:44		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/28/21 10:56		H3
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:39		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/19/21 07:08	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 07:08	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.15	mg/L	0.15	1	05/26/21 11:57	05/26/21 14:54		
<b>5310C TOC</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 16:49	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/27/21 12:15		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-11D	Lab ID: 50287762004	Collected: 05/17/21 10:17	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	99.4	mg/L	25.0	100		06/01/21 16:55	16887-00-6	
Fluoride	0.25	mg/L	0.10	1		06/01/21 16:38	16984-48-8	
Sulfate	122	mg/L	25.0	100		06/01/21 16:55	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 12:01	7429-90-5	
Barium	55.0	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:01	7440-39-3	
Boron	2480	ug/L	100	1	05/25/21 14:56	05/26/21 12:01	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/25/21 14:56	05/26/21 12:01	7440-43-9	
Calcium	76200	ug/L	1000	1	05/25/21 14:56	05/26/21 12:01	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:01	7440-47-3	
Iron	874	ug/L	100	1	05/25/21 14:56	05/26/21 12:01	7439-89-6	
Lead	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:01	7439-92-1	
Lithium	84.1	ug/L	20.0	1	05/25/21 14:56	05/26/21 12:01	7439-93-2	
Magnesium	20200	ug/L	1000	1	05/25/21 14:56	05/26/21 12:01	7439-95-4	
Manganese	267	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:01	7439-96-5	
Molybdenum	173	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:01	7439-98-7	
Potassium	6760	ug/L	1000	1	05/25/21 14:56	05/26/21 12:01	7440-09-7	
Silica	11000	ug/L	450	1	05/25/21 14:56	05/26/21 12:01	7631-86-9	N2
Sodium	91400	ug/L	1000	1	05/25/21 14:56	05/26/21 12:01	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	258	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:58	7439-96-5	
Molybdenum, Dissolved	170	ug/L	10.0	1	05/23/21 13:18	05/24/21 09:58	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:44	7440-36-0	
Arsenic	5.1	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:44	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/27/21 23:44	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:44	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:44	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:44	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/25/21 20:52	05/26/21 08:54	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	200	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Bicarbonate (CaCO3)	200	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/20/21 17:13		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: MW-11D	Lab ID: 50287762004	Collected: 05/17/21 10:17	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	546	mg/L	10.0	1		05/20/21 13:45		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/28/21 10:57		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:38		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/19/21 07:02	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 07:02	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/26/21 11:57	05/26/21 14:55		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 17:15	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 14:01		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: DUP 1	Lab ID: 50287762005	Collected: 05/17/21 12:00	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	90.4	mg/L	25.0	100		06/01/21 17:27	16887-00-6	
Fluoride	0.40	mg/L	0.10	1		06/01/21 17:11	16984-48-8	
Sulfate	91.0	mg/L	25.0	100		06/01/21 17:27	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/25/21 14:56	05/26/21 12:03	7429-90-5	
Barium	53.7	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:03	7440-39-3	
Boron	2080	ug/L	100	1	05/25/21 14:56	05/26/21 12:03	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/25/21 14:56	05/26/21 12:03	7440-43-9	
Calcium	72900	ug/L	1000	1	05/25/21 14:56	05/26/21 12:03	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:03	7440-47-3	
Iron	182	ug/L	100	1	05/25/21 14:56	05/26/21 12:03	7439-89-6	
Lead	ND	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:03	7439-92-1	
Lithium	107	ug/L	20.0	1	05/25/21 14:56	05/26/21 12:03	7439-93-2	
Magnesium	20000	ug/L	1000	1	05/25/21 14:56	05/26/21 12:03	7439-95-4	
Manganese	240	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:03	7439-96-5	
Molybdenum	151	ug/L	10.0	1	05/25/21 14:56	05/26/21 12:03	7439-98-7	
Potassium	7160	ug/L	1000	1	05/25/21 14:56	05/26/21 12:03	7440-09-7	
Silica	10300	ug/L	450	1	05/25/21 14:56	05/26/21 12:03	7631-86-9	N2
Sodium	80300	ug/L	1000	1	05/25/21 14:56	05/26/21 12:03	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	231	ug/L	10.0	1	05/23/21 13:18	05/24/21 10:00	7439-96-5	
Molybdenum, Dissolved	148	ug/L	10.0	1	05/23/21 13:18	05/24/21 10:00	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:49	7440-36-0	
Arsenic	1.1	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:49	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/27/21 23:49	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:49	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:49	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/27/21 23:49	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/25/21 20:52	05/26/21 08:56	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	220	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Bicarbonate (CaCO3)	220	mg/L	2.0	1		05/20/21 17:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/20/21 17:13		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Sample: DUP 1	Lab ID: 50287762005	Collected: 05/17/21 12:00	Received: 05/18/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	501	mg/L	10.0	1		05/20/21 13:46		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/28/21 10:59		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:39		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/19/21 07:10	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 07:10	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/26/21 11:57	05/26/21 14:55		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 17:41	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 14:12		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	623800	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2874589 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/01/21 11:36	
Fluoride	mg/L	ND	0.10	06/01/21 11:36	
Sulfate	mg/L	ND	0.25	06/01/21 11:36	

LABORATORY CONTROL SAMPLE: 2874590

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	0.48	96	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874591 2874592

Parameter	Units	50287764002		2874591		2874592		% 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	8.9	8.9	1.2	1.2	10.1	10.1	95	95	80-120	0	15	
Fluoride	mg/L	0.98	0.98	0.5	0.5	1.5	1.5	104	104	80-120	0	15	
Sulfate	mg/L	64.6	64.6	25	25	90.7	91.2	104	106	80-120	1	15	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	622221	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2867921 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/26/21 07:48	

LABORATORY CONTROL SAMPLE: 2867922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2867923 2867924

Parameter	Units	2867923		2867924		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287585003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	4.1	4.2	82	84	75-125	2	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	621964	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2866427 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/26/21 11:03	
Barium	ug/L	ND	10.0	05/26/21 11:03	
Boron	ug/L	ND	100	05/26/21 11:03	
Cadmium	ug/L	ND	2.0	05/26/21 11:03	
Calcium	ug/L	ND	1000	05/26/21 11:03	
Chromium	ug/L	ND	10.0	05/26/21 11:03	
Iron	ug/L	ND	100	05/26/21 11:03	
Lead	ug/L	ND	10.0	05/26/21 11:03	
Lithium	ug/L	ND	20.0	05/26/21 11:03	
Magnesium	ug/L	ND	1000	05/26/21 11:03	
Manganese	ug/L	ND	10.0	05/26/21 11:03	
Molybdenum	ug/L	ND	10.0	05/26/21 11:03	
Potassium	ug/L	ND	1000	05/26/21 11:03	
Silica	ug/L	ND	450	05/26/21 11:03	N2
Sodium	ug/L	ND	1000	05/26/21 11:03	

LABORATORY CONTROL SAMPLE: 2866428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9440	94	80-120	
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	968	97	80-120	
Cadmium	ug/L	1000	940	94	80-120	
Calcium	ug/L	10000	9860	99	80-120	
Chromium	ug/L	1000	1000	100	80-120	
Iron	ug/L	10000	9790	98	80-120	
Lead	ug/L	1000	910	91	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9280	93	80-120	
Manganese	ug/L	1000	966	97	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9860	99	80-120	
Silica	ug/L	10700	9730	91		N2
Sodium	ug/L	10000	9790	98	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866429 2866430												
Parameter	Units	50287550007		MS	MSD	2866430		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike	Conc.	MS	MSD					
Aluminum	ug/L	5770	10000	10000	17100	17000	114	113	75-125	1	20	
Barium	ug/L	142	1000	1000	1160	1130	101	99	75-125	2	20	
Boron	ug/L	1070	1000	1000	2130	2070	106	100	75-125	3	20	
Cadmium	ug/L	ND	1000	1000	988	965	99	96	75-125	2	20	
Calcium	ug/L	2760	10000	10000	12700	12500	100	97	75-125	2	20	
Chromium	ug/L	ND	1000	1000	1000	977	99	97	75-125	2	20	
Iron	ug/L	3830	10000	10000	13700	13400	99	96	75-125	2	20	
Lead	ug/L	ND	1000	1000	889	867	89	86	75-125	3	20	
Lithium	ug/L	32.1	1000	1000	1050	1030	102	100	75-125	2	20	
Magnesium	ug/L	2050	10000	10000	11600	11300	96	92	75-125	3	20	
Manganese	ug/L	52.6	1000	1000	1020	994	97	94	75-125	2	20	
Molybdenum	ug/L	27.0	1000	1000	1030	1010	101	99	75-125	2	20	
Potassium	ug/L	3330	10000	10000	13800	13400	104	101	75-125	2	20	
Silica	ug/L	25600	10700	10700	39400	39700	129	132		1	N2	
Sodium	ug/L	622000	10000	10000	632000	610000	104	-114	75-125	4	20	E,P6

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	622029	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2866703 Matrix: Water  
Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/24/21 09:03	
Molybdenum, Dissolved	ug/L	ND	10.0	05/24/21 09:03	

LABORATORY CONTROL SAMPLE: 2866704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	930	93	80-120	
Molybdenum, Dissolved	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866705 2866706

Parameter	Units	50287875003 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	201	1000	1000	1190	1130	99	93	75-125	5	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1040	988	104	99	75-125	5	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 622828	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2870044 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/27/21 22:44	
Arsenic	ug/L	ND	1.0	05/27/21 22:44	
Beryllium	ug/L	ND	0.20	05/27/21 22:44	
Cobalt	ug/L	ND	1.0	05/27/21 22:44	
Selenium	ug/L	ND	1.0	05/27/21 22:44	
Thallium	ug/L	ND	1.0	05/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2870045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	44.0	110	80-120	
Arsenic	ug/L	40	39.3	98	80-120	
Beryllium	ug/L	40	41.4	103	80-120	
Cobalt	ug/L	40	42.2	105	80-120	
Selenium	ug/L	40	39.9	100	80-120	
Thallium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870046 2870047

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287786003 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	<2.0	40	40	43.0	42.5	107	106	75-125	1	20
Arsenic	ug/L	<5.0	40	40	41.0	41.9	94	96	75-125	2	20
Beryllium	ug/L	<1.0	40	40	41.5	40.9	104	102	75-125	2	20
Cobalt	ug/L	<1.0	40	40	38.4	38.8	96	97	75-125	1	20
Selenium	ug/L	<5.0	40	40	37.6	38.9	94	97	75-125	3	20
Thallium	ug/L	<2.0	40	40	41.5	41.8	104	104	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 621808 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2865452 Matrix: Water  
 Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/20/21 17:13	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/20/21 17:13	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/20/21 17:13	

LABORATORY CONTROL SAMPLE: 2865453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.6	99	90-110	

SAMPLE DUPLICATE: 2865454

Parameter	Units	50287875011 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	316	310	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	316	310	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2865455

Parameter	Units	50287793001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	811	858	6	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	811	858	6	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287762

QC Batch: 621807	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001

METHOD BLANK: 2865447 Matrix: Water  
Associated Lab Samples: 50287762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/20/21 13:15	

LABORATORY CONTROL SAMPLE: 2865448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 2865449

Parameter	Units	50287939001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11	ND		10	PL

SAMPLE DUPLICATE: 2865928

Parameter	Units	50287702004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	461	446	3	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 621812

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2865464

Matrix: Water

Associated Lab Samples: 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/20/21 13:41	

LABORATORY CONTROL SAMPLE: 2865465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 2865466

Parameter	Units	50287762002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	808	802	1	10	

SAMPLE DUPLICATE: 2865467

Parameter	Units	50287764002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	386	368	5	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 623393

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: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

SAMPLE DUPLICATE: 2872625

Parameter	Units	50287580003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	2	H3

SAMPLE DUPLICATE: 2872626

Parameter	Units	50287764002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	621740	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: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2865190 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/20/21 10:09	

LABORATORY CONTROL SAMPLE: 2865191

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: 2865192 2865193

Parameter	Units	2865192		2865193		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287762001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	94	90-110	3	20

MATRIX SPIKE SAMPLE: 2865194

Parameter	Units	50287892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.48	96	90-110	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 622594 Analysis Method: HACH 8146  
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2869009 Matrix: Water  
 Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:37	H3,N2

LABORATORY CONTROL SAMPLE: 2869010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	104	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869011 2869012

Parameter	Units	50288037002 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	102	101	90-110	1	20	H3,N2

MATRIX SPIKE SAMPLE: 2869013

Parameter	Units	50287762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.1	106	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50287762

QC Batch: 621453 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: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2863921 Matrix: Water  
Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/19/21 06:58	
Nitrogen, Nitrite	mg/L	ND	0.10	05/19/21 06:58	

LABORATORY CONTROL SAMPLE: 2863922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	107	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863923 2863924

Parameter	Units	50287762004 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	109	90-110	3	20	
Nitrogen, Nitrite	mg/L	ND	1	1	0.98	1.0	98	101	90-110	3	20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	622758	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:	50287762001, 50287762002, 50287762003, 50287762004, 50287762005		

METHOD BLANK:	2869715	Matrix:	Water
Associated Lab Samples:	50287762001, 50287762002, 50287762003, 50287762004, 50287762005		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/26/21 14:46	

LABORATORY CONTROL SAMPLE: 2869716						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869717												2869718	
Parameter	Units	50287696003 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	0.55			2.0	2.0				4			

MATRIX SPIKE SAMPLE: 2869719											
Parameter	Units	50287793001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Phosphate as P04	mg/L		1.5	3.0							

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	623253	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2871847 Matrix: Water  
Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/28/21 10:40	

LABORATORY CONTROL SAMPLE: 2871848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871849 2871850

Parameter	Units	50287784003 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	0.60J	10	10	10.1	10.1	95	95	80-120	0	20	

MATRIX SPIKE SAMPLE: 2871851

Parameter	Units	50287788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<0.50	10	9.2	92	80-120	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch:	622984	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287762001, 50287762002, 50287762003		

METHOD BLANK: 2870709 Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/27/21 01:08	

LABORATORY CONTROL SAMPLE: 2870710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870711 2870712

Parameter	Units	50287685003		2870711		2870712		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Dissolved Organic Carbon	mg/L	38.2	40	40	40	75.3	74.9	93	92	80-120	1	20

MATRIX SPIKE SAMPLE: 2870713

Parameter	Units	50287762002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	10.3	96	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 623644

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287762004, 50287762005

METHOD BLANK: 2873938

Matrix: Water

Associated Lab Samples: 50287762004, 50287762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/29/21 13:34	

LABORATORY CONTROL SAMPLE: 2873939

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: 2873940 2873941

Parameter	Units	50287892003 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	10.5	10.4	95	94	80-120	1	20	

MATRIX SPIKE SAMPLE: 2873942

Parameter	Units	50287915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	9.1	91	80-120	

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

**Sample: MW-7S**      **Lab ID: 50287762001**      Collected: 05/17/21 14:02      Received: 05/18/21 14:10      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	<b>0.180 ± 0.540 (1.00)</b> <b>C:NA T:95%</b>	pCi/L	06/22/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.547 ± 0.520 (1.07)</b> <b>C:69% T:100%</b>	pCi/L	06/18/21 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.727 ± 1.06 (2.07)</b>	pCi/L	06/22/21 17:09	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

**Sample: MW-11S**      **Lab ID: 50287762002**      Collected: 05/17/21 12:27      Received: 05/18/21 14:10      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	<b>0.0567 ± 0.259 (0.526)</b> <b>C:NA T:93%</b>	pCi/L	06/22/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.243 ± 0.522 (1.16)</b> <b>C:71% T:85%</b>	pCi/L	06/18/21 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.300 ± 0.781 (1.69)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

**Sample: MW-111**      **Lab ID: 50287762003**      Collected: 05/17/21 11:14      Received: 05/18/21 14:10      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	<b>0.864 ± 0.515 (0.489)</b> <b>C:NA T:90%</b>	pCi/L	06/22/21 14:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.833 ± 0.717 (1.46)</b> <b>C:75% T:83%</b>	pCi/L	06/18/21 17:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.70 ± 1.23 (1.95)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

**Sample: MW-11D**      **Lab ID: 50287762004**      Collected: 05/17/21 10:17      Received: 05/18/21 14:10      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	<b>6.86 ± 1.57 (0.879)</b> <b>C:NA T:91%</b>	pCi/L	06/22/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.246 ± 0.604 (1.34)</b> <b>C:67% T:91%</b>	pCi/L	06/18/21 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>7.11 ± 2.17 (2.22)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

**Sample: DUP 1**      **Lab ID: 50287762005**      Collected: 05/17/21 12:00      Received: 05/18/21 14:10      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	<b>0.853 ± 0.508 (0.483)</b> <b>C:NA T:87%</b>	pCi/L	06/22/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>-0.157 ± 0.539 (1.28)</b> <b>C:71% T:84%</b>	pCi/L	06/18/21 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.853 ± 1.05 (1.76)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

QC Batch: 451447

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: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

METHOD BLANK: 2178823

Matrix: Water

Associated Lab Samples: 50287762001, 50287762002, 50287762003, 50287762004, 50287762005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.808 ± 0.405 (0.694) C:73% T:88%	pCi/L	06/18/21 14:28	

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## QUALIFIERS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287762001	MW-7S	EPA 9056	623800		
50287762002	MW-11S	EPA 9056	623800		
50287762003	MW-11I	EPA 9056	623800		
50287762004	MW-11D	EPA 9056	623800		
50287762005	DUP 1	EPA 9056	623800		
50287762001	MW-7S	EPA 3010	621964	EPA 6010	622877
50287762002	MW-11S	EPA 3010	621964	EPA 6010	622877
50287762003	MW-11I	EPA 3010	621964	EPA 6010	622877
50287762004	MW-11D	EPA 3010	621964	EPA 6010	622877
50287762005	DUP 1	EPA 3010	621964	EPA 6010	622877
50287762001	MW-7S	EPA 3010	622029	EPA 6010	622362
50287762002	MW-11S	EPA 3010	622029	EPA 6010	622362
50287762003	MW-11I	EPA 3010	622029	EPA 6010	622362
50287762004	MW-11D	EPA 3010	622029	EPA 6010	622362
50287762005	DUP 1	EPA 3010	622029	EPA 6010	622362
50287762001	MW-7S	EPA 200.2	622828	EPA 6020	622959
50287762002	MW-11S	EPA 200.2	622828	EPA 6020	622959
50287762003	MW-11I	EPA 200.2	622828	EPA 6020	622959
50287762004	MW-11D	EPA 200.2	622828	EPA 6020	622959
50287762005	DUP 1	EPA 200.2	622828	EPA 6020	622959
50287762001	MW-7S	EPA 7470	622221	EPA 7470	622853
50287762002	MW-11S	EPA 7470	622221	EPA 7470	622853
50287762003	MW-11I	EPA 7470	622221	EPA 7470	622853
50287762004	MW-11D	EPA 7470	622221	EPA 7470	622853
50287762005	DUP 1	EPA 7470	622221	EPA 7470	622853
50287762001	MW-7S	EPA 903.1	451446		
50287762002	MW-11S	EPA 903.1	451446		
50287762003	MW-11I	EPA 903.1	451446		
50287762004	MW-11D	EPA 903.1	451446		
50287762005	DUP 1	EPA 903.1	451446		
50287762001	MW-7S	EPA 904.0	451447		
50287762002	MW-11S	EPA 904.0	451447		
50287762003	MW-11I	EPA 904.0	451447		
50287762004	MW-11D	EPA 904.0	451447		
50287762005	DUP 1	EPA 904.0	451447		
50287762001	MW-7S	Total Radium Calculation	453604		
50287762002	MW-11S	Total Radium Calculation	453604		
50287762003	MW-11I	Total Radium Calculation	453604		
50287762004	MW-11D	Total Radium Calculation	453604		
50287762005	DUP 1	Total Radium Calculation	453604		
50287762001	MW-7S	SM 2320B	621808		
50287762002	MW-11S	SM 2320B	621808		
50287762003	MW-11I	SM 2320B	621808		
50287762004	MW-11D	SM 2320B	621808		
50287762005	DUP 1	SM 2320B	621808		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50287762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287762001	MW-7S	SM 2540C	621807		
50287762002	MW-11S	SM 2540C	621812		
50287762003	MW-11I	SM 2540C	621812		
50287762004	MW-11D	SM 2540C	621812		
50287762005	DUP 1	SM 2540C	621812		
50287762001	MW-7S	SM 4500-H+B	623393		
50287762002	MW-11S	SM 4500-H+B	623393		
50287762003	MW-11I	SM 4500-H+B	623393		
50287762004	MW-11D	SM 4500-H+B	623393		
50287762005	DUP 1	SM 4500-H+B	623393		
50287762001	MW-7S	SM 4500-S2-D	621740		
50287762002	MW-11S	SM 4500-S2-D	621740		
50287762003	MW-11I	SM 4500-S2-D	621740		
50287762004	MW-11D	SM 4500-S2-D	621740		
50287762005	DUP 1	SM 4500-S2-D	621740		
50287762001	MW-7S	HACH 8146	622594		
50287762002	MW-11S	HACH 8146	622594		
50287762003	MW-11I	HACH 8146	622594		
50287762004	MW-11D	HACH 8146	622594		
50287762005	DUP 1	HACH 8146	622594		
50287762001	MW-7S	EPA 353.2	621453		
50287762002	MW-11S	EPA 353.2	621453		
50287762003	MW-11I	EPA 353.2	621453		
50287762004	MW-11D	EPA 353.2	621453		
50287762005	DUP 1	EPA 353.2	621453		
50287762001	MW-7S	EPA 365.1	622758	EPA 365.1	622976
50287762002	MW-11S	EPA 365.1	622758	EPA 365.1	622976
50287762003	MW-11I	EPA 365.1	622758	EPA 365.1	622976
50287762004	MW-11D	EPA 365.1	622758	EPA 365.1	622976
50287762005	DUP 1	EPA 365.1	622758	EPA 365.1	622976
50287762001	MW-7S	SM 5310C	623253		
50287762002	MW-11S	SM 5310C	623253		
50287762003	MW-11I	SM 5310C	623253		
50287762004	MW-11D	SM 5310C	623253		
50287762005	DUP 1	SM 5310C	623253		
50287762001	MW-7S	SM 5310C	622984		
50287762002	MW-11S	SM 5310C	622984		
50287762003	MW-11I	SM 5310C	622984		
50287762004	MW-11D	SM 5310C	623644		
50287762005	DUP 1	SM 5310C	623644		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MRP 5/18/21 1450

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: 3.1/3.1, 1.2/1.2, 1.3/1.3  
 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 (&lt;2)</u> <u>H2SO4 (&lt;2)</u> NaOH (>10) <u>NaOH/ZnAc (&gt;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>1510</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:

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### 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													2			2	1	2	1	1	1			1		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

### 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			2
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		
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		
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				
						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: Eagle Valley Profile 1 Report1  
Pace Project No.: 50287892

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 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: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

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### 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

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### 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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287892001	MW-6S	Water	05/18/21 12:08	05/19/21 15:55
50287892002	MW-6I	Water	05/18/21 11:06	05/19/21 15:55
50287892003	MW-6D	Water	05/18/21 10:08	05/19/21 15:55
50287892004	FIELD BLANK 1	Water	05/18/21 11:57	05/19/21 15:55

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287892001	MW-6S	EPA 9056	RMR	3	PASI-I		
		EPA 6010	JPK	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	6	PASI-I		
		EPA 7470	ILP	1	PASI-I		
		EPA 903.1	MK1	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	SWJ	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		
		50287892002	MW-6I	EPA 9056	RMR	3	PASI-I
				EPA 6010	JPK	15	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			6	PASI-I		
EPA 7470	ILP			1	PASI-I		
EPA 903.1	MK1			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	SWJ			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		
50287892003	MW-6D			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: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	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	SWJ	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
50287892004	FIELD BLANK 1	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	15	PASI-I
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	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	SWJ	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

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287892001</b>	<b>MW-6S</b>					
EPA 9056	Chloride	80.0	mg/L	25.0	06/01/21 16:42	
EPA 9056	Fluoride	0.19	mg/L	0.10	06/01/21 16:27	
EPA 9056	Sulfate	209	mg/L	25.0	06/01/21 16:42	
EPA 6010	Barium	89.7	ug/L	10.0	05/30/21 00:50	
EPA 6010	Boron	4980	ug/L	100	05/30/21 00:50	
EPA 6010	Calcium	142000	ug/L	1000	05/30/21 00:50	
EPA 6010	Lithium	99.5	ug/L	20.0	05/30/21 00:50	
EPA 6010	Magnesium	31800	ug/L	1000	05/30/21 00:50	
EPA 6010	Manganese	51.9	ug/L	10.0	05/30/21 00:50	
EPA 6010	Molybdenum	138	ug/L	10.0	05/30/21 00:50	
EPA 6010	Potassium	9590	ug/L	1000	05/30/21 00:50	
EPA 6010	Silica	12600	ug/L	450	05/30/21 00:50	N2
EPA 6010	Sodium	91200	ug/L	1000	05/30/21 00:50	
EPA 6010	Molybdenum, Dissolved	135	ug/L	10.0	05/29/21 22:39	
EPA 6020	Antimony	1.4	ug/L	1.0	05/28/21 02:12	
EPA 6020	Selenium	14.2	ug/L	1.0	05/28/21 02:12	
EPA 903.1	Radium-226	0.0574 ± 0.262 (0.533)	pCi/L		06/22/21 14:41	
EPA 904.0	Radium-228	C:NA T:94% 0.747 ± 0.690 (1.42)	pCi/L		06/18/21 17:31	
		C:71% T:82%				
Total Radium Calculation	Total Radium	0.804 ± 0.952 (1.95)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	366	mg/L	2.0	05/26/21 13:38	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	366	mg/L	2.0	05/26/21 13:38	
SM 2540C	Total Dissolved Solids	898	mg/L	20.0	05/21/21 15:13	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/28/21 11:22	H3
EPA 353.2	Nitrogen, Nitrate	0.34	mg/L	0.10	05/20/21 08:04	
<b>50287892002</b>	<b>MW-6I</b>					
EPA 9056	Chloride	84.8	mg/L	25.0	06/01/21 17:14	
EPA 9056	Fluoride	0.30	mg/L	0.10	06/01/21 16:58	
EPA 9056	Sulfate	86.1	mg/L	25.0	06/01/21 17:14	
EPA 6010	Barium	52.9	ug/L	10.0	05/30/21 00:52	
EPA 6010	Boron	2280	ug/L	100	05/30/21 00:52	
EPA 6010	Calcium	78100	ug/L	1000	05/30/21 00:52	
EPA 6010	Lithium	102	ug/L	20.0	05/30/21 00:52	
EPA 6010	Magnesium	17000	ug/L	1000	05/30/21 00:52	
EPA 6010	Manganese	50.6	ug/L	10.0	05/30/21 00:52	
EPA 6010	Molybdenum	231	ug/L	10.0	05/30/21 00:52	
EPA 6010	Potassium	12200	ug/L	1000	05/30/21 00:52	
EPA 6010	Silica	10200	ug/L	450	05/30/21 00:52	N2
EPA 6010	Sodium	70200	ug/L	1000	05/30/21 00:52	
EPA 6010	Manganese, Dissolved	48.3	ug/L	10.0	05/29/21 22:41	
EPA 6010	Molybdenum, Dissolved	229	ug/L	10.0	05/29/21 22:41	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287892002</b>	<b>MW-6I</b>					
EPA 903.1	Radium-226	0.730 ± 0.454 (0.448) C:NA T:88%	pCi/L		06/22/21 14:41	
EPA 904.0	Radium-228	1.79 ± 0.790 (1.30) C:69% T:79%	pCi/L		06/18/21 17:32	
Total Radium Calculation	Total Radium	2.52 ± 1.24 (1.75)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	232	mg/L	2.0	05/26/21 13:38	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	232	mg/L	2.0	05/26/21 13:38	
SM 2540C	Total Dissolved Solids	521	mg/L	10.0	05/21/21 15:14	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/28/21 11:24	H3
<b>50287892003</b>	<b>MW-6D</b>					
EPA 9056	Chloride	93.3	mg/L	25.0	06/01/21 17:47	
EPA 9056	Fluoride	0.16	mg/L	0.10	06/01/21 17:31	
EPA 9056	Sulfate	108	mg/L	25.0	06/01/21 17:47	
EPA 6010	Barium	51.5	ug/L	10.0	05/30/21 00:54	
EPA 6010	Boron	3590	ug/L	100	05/30/21 00:54	
EPA 6010	Calcium	75300	ug/L	1000	05/30/21 00:54	
EPA 6010	Iron	121	ug/L	100	05/30/21 00:54	
EPA 6010	Lithium	84.5	ug/L	20.0	05/30/21 00:54	
EPA 6010	Magnesium	14300	ug/L	1000	05/30/21 00:54	
EPA 6010	Manganese	298	ug/L	10.0	05/30/21 00:54	
EPA 6010	Molybdenum	219	ug/L	10.0	05/30/21 00:54	
EPA 6010	Potassium	6430	ug/L	1000	05/30/21 00:54	
EPA 6010	Silica	11400	ug/L	450	05/30/21 00:54	N2
EPA 6010	Sodium	85500	ug/L	1000	05/30/21 00:54	
EPA 6010	Manganese, Dissolved	270	ug/L	10.0	05/29/21 22:43	
EPA 6010	Molybdenum, Dissolved	220	ug/L	10.0	05/29/21 22:43	
EPA 903.1	Radium-226	0.398 ± 0.373 (0.529) C:NA T:91%	pCi/L		06/22/21 14:41	
EPA 904.0	Radium-228	0.794 ± 0.574 (1.12) C:75% T:83%	pCi/L		06/18/21 17:32	
Total Radium Calculation	Total Radium	1.19 ± 0.947 (1.65)	pCi/L		06/22/21 17:09	
SM 2320B	Alkalinity, Total as CaCO3	207	mg/L	2.0	05/26/21 13:38	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	207	mg/L	2.0	05/26/21 13:38	
SM 2540C	Total Dissolved Solids	529	mg/L	10.0	05/21/21 15:14	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/28/21 11:25	H3

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287892004</b>	<b>FIELD BLANK 1</b>					
EPA 903.1	Radium-226	0.477 ± 0.470 (0.716)	pCi/L		06/22/21 14:41	
EPA 904.0	Radium-228	C:NA T:88% 0.0336 ± 0.480 (1.11) C:68% T:93%	pCi/L		06/18/21 17:32	
Total Radium Calculation	Total Radium	0.511 ± 0.950 (1.83)	pCi/L		06/22/21 17:09	
SM 4500-H+B	pH at 25 Degrees C	6.0	Std. Units	0.10	05/28/21 11:31	H3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6S	Lab ID: 50287892001	Collected: 05/18/21 12:08	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	80.0	mg/L	25.0	100		06/01/21 16:42	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		06/01/21 16:27	16984-48-8	
Sulfate	209	mg/L	25.0	100		06/01/21 16:42	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 00:50	7429-90-5	
Barium	89.7	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:50	7440-39-3	
Boron	4980	ug/L	100	1	05/28/21 07:11	05/30/21 00:50	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 07:11	05/30/21 00:50	7440-43-9	
Calcium	142000	ug/L	1000	1	05/28/21 07:11	05/30/21 00:50	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:50	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 00:50	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:50	7439-92-1	
Lithium	99.5	ug/L	20.0	1	05/28/21 07:11	05/30/21 00:50	7439-93-2	
Magnesium	31800	ug/L	1000	1	05/28/21 07:11	05/30/21 00:50	7439-95-4	
Manganese	51.9	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:50	7439-96-5	
Molybdenum	138	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:50	7439-98-7	
Potassium	9590	ug/L	1000	1	05/28/21 07:11	05/30/21 00:50	7440-09-7	
Silica	12600	ug/L	450	1	05/28/21 07:11	05/30/21 00:50	7631-86-9	N2
Sodium	91200	ug/L	1000	1	05/28/21 07:11	05/30/21 00:50	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:39	7439-96-5	
Molybdenum, Dissolved	135	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:39	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	1.4	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:12	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:12	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/28/21 02:12	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:12	7440-48-4	
Selenium	14.2	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:12	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:12	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 08:08	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	366	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Bicarbonate (CaCO3)	366	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6S	Lab ID: 50287892001	Collected: 05/18/21 12:08	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	898	mg/L	20.0	1		05/21/21 15:13		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		05/28/21 11:22		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:42		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.34	mg/L	0.10	1		05/20/21 08:04	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 08:04	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 12:55	05/27/21 16:44		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 21:20	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 16:09		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6I	Lab ID: 50287892002	Collected: 05/18/21 11:06	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	84.8	mg/L	25.0	100		06/01/21 17:14	16887-00-6	
Fluoride	0.30	mg/L	0.10	1		06/01/21 16:58	16984-48-8	
Sulfate	86.1	mg/L	25.0	100		06/01/21 17:14	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 00:52	7429-90-5	
Barium	52.9	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:52	7440-39-3	
Boron	2280	ug/L	100	1	05/28/21 07:11	05/30/21 00:52	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 07:11	05/30/21 00:52	7440-43-9	
Calcium	78100	ug/L	1000	1	05/28/21 07:11	05/30/21 00:52	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:52	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 00:52	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:52	7439-92-1	
Lithium	102	ug/L	20.0	1	05/28/21 07:11	05/30/21 00:52	7439-93-2	
Magnesium	17000	ug/L	1000	1	05/28/21 07:11	05/30/21 00:52	7439-95-4	
Manganese	50.6	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:52	7439-96-5	
Molybdenum	231	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:52	7439-98-7	
Potassium	12200	ug/L	1000	1	05/28/21 07:11	05/30/21 00:52	7440-09-7	
Silica	10200	ug/L	450	1	05/28/21 07:11	05/30/21 00:52	7631-86-9	N2
Sodium	70200	ug/L	1000	1	05/28/21 07:11	05/30/21 00:52	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	48.3	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:41	7439-96-5	
Molybdenum, Dissolved	229	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:41	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:43	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:43	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/28/21 02:43	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:43	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:43	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:43	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 08:10	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	232	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Bicarbonate (CaCO3)	232	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6I	Lab ID: 50287892002	Collected: 05/18/21 11:06	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	521	mg/L	10.0	1		05/21/21 15:14		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/28/21 11:24		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:42		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 07:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 07:52	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 12:55	05/27/21 16:46		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 21:30	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 16:19		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6D	Lab ID: 50287892003	Collected: 05/18/21 10:08	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	93.3	mg/L	25.0	100		06/01/21 17:47	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		06/01/21 17:31	16984-48-8	
Sulfate	108	mg/L	25.0	100		06/01/21 17:47	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 00:54	7429-90-5	
Barium	51.5	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:54	7440-39-3	
Boron	3590	ug/L	100	1	05/28/21 07:11	05/30/21 00:54	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 07:11	05/30/21 00:54	7440-43-9	
Calcium	75300	ug/L	1000	1	05/28/21 07:11	05/30/21 00:54	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:54	7440-47-3	
Iron	121	ug/L	100	1	05/28/21 07:11	05/30/21 00:54	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:54	7439-92-1	
Lithium	84.5	ug/L	20.0	1	05/28/21 07:11	05/30/21 00:54	7439-93-2	
Magnesium	14300	ug/L	1000	1	05/28/21 07:11	05/30/21 00:54	7439-95-4	
Manganese	298	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:54	7439-96-5	
Molybdenum	219	ug/L	10.0	1	05/28/21 07:11	05/30/21 00:54	7439-98-7	
Potassium	6430	ug/L	1000	1	05/28/21 07:11	05/30/21 00:54	7440-09-7	
Silica	11400	ug/L	450	1	05/28/21 07:11	05/30/21 00:54	7631-86-9	N2
Sodium	85500	ug/L	1000	1	05/28/21 07:11	05/30/21 00:54	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	270	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:43	7439-96-5	
Molybdenum, Dissolved	220	ug/L	10.0	1	05/28/21 13:49	05/29/21 22:43	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:48	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:48	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/28/21 02:48	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:48	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:48	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:48	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 08:18	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	207	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Bicarbonate (CaCO3)	207	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: MW-6D	Lab ID: 50287892003	Collected: 05/18/21 10:08	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	529	mg/L	10.0	1		05/21/21 15:14		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/28/21 11:25		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:41		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 07:43	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 07:43	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 12:55	05/27/21 16:46		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 21:40	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 16:30		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: FIELD BLANK 1	Lab ID: 50287892004	Collected: 05/18/21 11:57	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		06/01/21 18:03	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/01/21 18:03	16984-48-8	
Sulfate	ND	mg/L	0.25	1		06/01/21 18:03	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 01:00	7429-90-5	
Barium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:00	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 01:00	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 07:11	05/30/21 01:00	7440-43-9	
Calcium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:00	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:00	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 01:00	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:00	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 07:11	05/30/21 01:00	7439-93-2	
Magnesium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:00	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:00	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:00	7439-98-7	
Potassium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:00	7440-09-7	
Silica	ND	ug/L	450	1	05/28/21 07:11	05/30/21 01:00	7631-86-9	N2
Sodium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:00	7440-23-5	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:52	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:52	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/26/21 08:15	05/28/21 02:52	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:52	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:52	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 02:52	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 08:20	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	ND	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		05/21/21 15:14		PL

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Sample: FIELD BLANK 1	Lab ID: 50287892004	Collected: 05/18/21 11:57	Received: 05/19/21 15:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.0	Std. Units	0.10	1		05/28/21 11:31		H3
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:42		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 08:02	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 08:02	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 12:55	05/27/21 16:47		
<b>5310C TOC</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 22:01	7440-44-0	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch:	623914	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2874856 Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/01/21 15:58	
Fluoride	mg/L	ND	0.10	06/01/21 15:58	
Sulfate	mg/L	ND	0.25	06/01/21 15:58	

LABORATORY CONTROL SAMPLE: 2874857

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	0.46	92	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874858 2874859

Parameter	Units	50287903001		2874858		2874859		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	24.1	12.5	12.5	37.6	37.5	108	108	80-120	0	15		
Fluoride	mg/L	0.90	0.5	0.5	1.4	1.4	105	108	80-120	1	15		
Sulfate	mg/L	35.2	25	25	60.3	60.4	100	101	80-120	0	15		

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

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QC Batch:	622654	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

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METHOD BLANK: 2869229 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/01/21 07:58	

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LABORATORY CONTROL SAMPLE: 2869230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869231 2869232

Parameter	Units	50287892002 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	4.8	97	97	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 622322

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2868236

Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/30/21 00:46	
Barium	ug/L	ND	10.0	05/30/21 00:46	
Boron	ug/L	ND	100	05/30/21 00:46	
Cadmium	ug/L	ND	2.0	05/30/21 00:46	
Calcium	ug/L	ND	1000	05/30/21 00:46	
Chromium	ug/L	ND	10.0	05/30/21 00:46	
Iron	ug/L	ND	100	05/30/21 00:46	
Lead	ug/L	ND	10.0	05/30/21 00:46	
Lithium	ug/L	ND	20.0	05/30/21 00:46	
Magnesium	ug/L	ND	1000	05/30/21 00:46	
Manganese	ug/L	ND	10.0	05/30/21 00:46	
Molybdenum	ug/L	ND	10.0	05/30/21 00:46	
Potassium	ug/L	ND	1000	05/30/21 00:46	
Silica	ug/L	ND	450	05/30/21 00:46	N2
Sodium	ug/L	ND	1000	05/30/21 00:46	

LABORATORY CONTROL SAMPLE: 2868237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1030	103	80-120	
Iron	ug/L	10000	9950	99	80-120	
Lead	ug/L	1000	986	99	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9830	98	80-120	
Manganese	ug/L	1000	985	98	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	9690	97	80-120	
Silica	ug/L	10700	10600	99		N2
Sodium	ug/L	10000	9720	97	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868238 2868239											
Parameter	Units	50287892004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	ug/L	ND	10000	10000	9750	9680	98	97	75-125	1	20
Barium	ug/L	ND	1000	1000	994	984	99	98	75-125	1	20
Boron	ug/L	ND	1000	1000	996	989	99	98	75-125	1	20
Cadmium	ug/L	ND	1000	1000	988	982	99	98	75-125	1	20
Calcium	ug/L	ND	10000	10000	11800	11900	116	117	75-125	1	20
Chromium	ug/L	ND	1000	1000	1010	1010	101	101	75-125	0	20
Iron	ug/L	ND	10000	10000	9850	9780	98	98	75-125	1	20
Lead	ug/L	ND	1000	1000	982	973	98	97	75-125	1	20
Lithium	ug/L	ND	1000	1000	998	987	100	99	75-125	1	20
Magnesium	ug/L	ND	10000	10000	9900	9840	99	98	75-125	1	20
Manganese	ug/L	ND	1000	1000	985	975	98	97	75-125	1	20
Molybdenum	ug/L	ND	1000	1000	1050	1040	105	104	75-125	1	20
Potassium	ug/L	ND	10000	10000	9600	9350	95	93	75-125	3	20
Silica	ug/L	ND	10700	10700	10400	10400	97	97		0	N2
Sodium	ug/L	ND	10000	10000	9600	9490	95	94	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 623111	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003

METHOD BLANK: 2871191 Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/29/21 22:37	
Molybdenum, Dissolved	ug/L	ND	10.0	05/29/21 22:37	

LABORATORY CONTROL SAMPLE: 2871192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	963	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871193 2871194

Parameter	Units	50288379001 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	ND	1000	1000	965	965	96	96	75-125	0	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1050	1040	105	104	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 622829

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2870048

Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/28/21 02:04	
Arsenic	ug/L	ND	1.0	05/28/21 02:04	
Beryllium	ug/L	ND	0.20	05/28/21 02:04	
Cobalt	ug/L	ND	1.0	05/28/21 02:04	
Selenium	ug/L	ND	1.0	05/28/21 02:04	
Thallium	ug/L	ND	1.0	05/28/21 02:04	

LABORATORY CONTROL SAMPLE: 2870049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.3	98	80-120	
Arsenic	ug/L	40	39.0	98	80-120	
Beryllium	ug/L	40	38.9	97	80-120	
Cobalt	ug/L	40	39.4	98	80-120	
Selenium	ug/L	40	40.2	100	80-120	
Thallium	ug/L	40	38.6	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870050 2870051

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	ug/L	40	1.4	40	42.1	102	103	75-125	1	20	
Arsenic	ug/L	40	ND	40	39.1	97	97	75-125	0	20	
Beryllium	ug/L	40	ND	40	42.3	106	105	75-125	0	20	
Cobalt	ug/L	40	ND	40	36.9	91	91	75-125	1	20	
Selenium	ug/L	40	14.2	40	55.4	103	94	75-125	7	20	
Thallium	ug/L	40	ND	40	38.6	96	94	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch:	622906	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2870256 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	05/26/21 13:38	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	05/26/21 13:38	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	05/26/21 13:38	

LABORATORY CONTROL SAMPLE: 2870257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	90-110	

SAMPLE DUPLICATE: 2870258

Parameter	Units	50287916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	221	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	201	201	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	20.8	20.6	1	20	

SAMPLE DUPLICATE: 2870259

Parameter	Units	50287916002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	241	244	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	241	244	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch:	622049	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2866792 Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/21/21 15:11	

LABORATORY CONTROL SAMPLE: 2867250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	297	99	80-120	

SAMPLE DUPLICATE: 2866793

Parameter	Units	50287874004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	291	311	7	10	

SAMPLE DUPLICATE: 2866794

Parameter	Units	50287874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	179	179	0	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 623396

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: 50287892001, 50287892002, 50287892003, 50287892004

SAMPLE DUPLICATE: 2872633

Parameter	Units	50287892001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2872634

Parameter	Units	50287903004 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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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 621740	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: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2865190 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/20/21 10:09	

LABORATORY CONTROL SAMPLE: 2865191

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: 2865192 2865193

Parameter	Units	50287762001		2865192		2865193		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	94	90-110	3	20

MATRIX SPIKE SAMPLE: 2865194

Parameter	Units	50287892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.48	96	90-110	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch:	622594	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287892001, 50287892002, 50287892003, 50287892004		

METHOD BLANK: 2869009 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:37	H3,N2

LABORATORY CONTROL SAMPLE: 2869010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	104	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869011 2869012

Parameter	Units	50288037002 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	102	101	90-110	1	20	H3,N2

MATRIX SPIKE SAMPLE: 2869013

Parameter	Units	50287762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.1	106	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50287892

QC Batch: 621732 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: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2865165 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/20/21 07:39	
Nitrogen, Nitrite	mg/L	ND	0.10	05/20/21 07:39	

LABORATORY CONTROL SAMPLE: 2865166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	109	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865167 2865168

Parameter	Units	50287875001 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	4.7	2	2	6.8	6.7	108	103	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	1.9	100	95	90-110	5	20	

MATRIX SPIKE SAMPLE: 2865169

Parameter	Units	50287915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.1	111	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch:	623020	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:	50287892001, 50287892002, 50287892003, 50287892004		

METHOD BLANK: 2870886 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/27/21 16:31	

LABORATORY CONTROL SAMPLE: 2870887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870888 2870889

Parameter	Units	50287892001 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	1.5				9		

MATRIX SPIKE SAMPLE: 2871178

Parameter	Units	50287887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		32.1	48.8			

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 623563

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2873514

Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/28/21 19:09	

LABORATORY CONTROL SAMPLE: 2873515

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: 2873516 2873517

Parameter	Units	50287804007		2873516		2873517		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Total Organic Carbon	mg/L	ND	10	10	9.4	9.4	94	94	80-120	0	20

MATRIX SPIKE SAMPLE: 2873518

Parameter	Units	50287892003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	9.1	91	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile 1 Report1  
Pace Project No.: 50287892

QC Batch: 623644 Analysis Method: SM 5310C  
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50287892001, 50287892002, 50287892003

METHOD BLANK: 2873938 Matrix: Water  
Associated Lab Samples: 50287892001, 50287892002, 50287892003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/29/21 13:34	

LABORATORY CONTROL SAMPLE: 2873939

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: 2873940 2873941

Parameter	Units	50287892003 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	10.5	10.4	95	94	80-120	1	20	

MATRIX SPIKE SAMPLE: 2873942

Parameter	Units	50287915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	9.1	91	80-120	

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

**Sample: MW-6S**      **Lab ID: 50287892001**      Collected: 05/18/21 12:08      Received: 05/19/21 15:55      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	<b>0.0574 ± 0.262 (0.533)</b> <b>C:NA T:94%</b>	pCi/L	06/22/21 14:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.747 ± 0.690 (1.42)</b> <b>C:71% T:82%</b>	pCi/L	06/18/21 17:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.804 ± 0.952 (1.95)</b>	pCi/L	06/22/21 17:09	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

**Sample: MW-6I**      **Lab ID: 50287892002**      Collected: 05/18/21 11:06      Received: 05/19/21 15:55      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	<b>0.730 ± 0.454 (0.448)</b> <b>C:NA T:88%</b>	pCi/L	06/22/21 14:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.79 ± 0.790 (1.30)</b> <b>C:69% T:79%</b>	pCi/L	06/18/21 17:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.52 ± 1.24 (1.75)</b>	pCi/L	06/22/21 17:09	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

**Sample: MW-6D**      **Lab ID: 50287892003**      Collected: 05/18/21 10:08      Received: 05/19/21 15:55      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	<b>0.398 ± 0.373 (0.529)</b> <b>C:NA T:91%</b>	pCi/L	06/22/21 14:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.794 ± 0.574 (1.12)</b> <b>C:75% T:83%</b>	pCi/L	06/18/21 17:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.19 ± 0.947 (1.65)</b>	pCi/L	06/22/21 17:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

**Sample: FIELD BLANK 1**      **Lab ID: 50287892004**      Collected: 05/18/21 11:57      Received: 05/19/21 15:55      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	<b>0.477 ± 0.470 (0.716)</b> <b>C:NA T:88%</b>	pCi/L	06/22/21 14:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.0336 ± 0.480 (1.11)</b> <b>C:68% T:93%</b>	pCi/L	06/18/21 17:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.511 ± 0.950 (1.83)</b>	pCi/L	06/22/21 17:09	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

QC Batch: 451446

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: 50287892001, 50287892002, 50287892003, 50287892004

METHOD BLANK: 2178822

Matrix: Water

Associated Lab Samples: 50287892001, 50287892002, 50287892003, 50287892004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0492 ± 0.348 (0.694) C:NA T:90%	pCi/L	06/22/21 14:06	

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## QUALIFIERS

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

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: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287892001	MW-6S	EPA 9056	623914		
50287892002	MW-6I	EPA 9056	623914		
50287892003	MW-6D	EPA 9056	623914		
50287892004	FIELD BLANK 1	EPA 9056	623914		
50287892001	MW-6S	EPA 3010	622322	EPA 6010	623690
50287892002	MW-6I	EPA 3010	622322	EPA 6010	623690
50287892003	MW-6D	EPA 3010	622322	EPA 6010	623690
50287892004	FIELD BLANK 1	EPA 3010	622322	EPA 6010	623690
50287892001	MW-6S	EPA 3010	623111	EPA 6010	623688
50287892002	MW-6I	EPA 3010	623111	EPA 6010	623688
50287892003	MW-6D	EPA 3010	623111	EPA 6010	623688
50287892001	MW-6S	EPA 200.2	622829	EPA 6020	622958
50287892002	MW-6I	EPA 200.2	622829	EPA 6020	622958
50287892003	MW-6D	EPA 200.2	622829	EPA 6020	622958
50287892004	FIELD BLANK 1	EPA 200.2	622829	EPA 6020	622958
50287892001	MW-6S	EPA 7470	622654	EPA 7470	623821
50287892002	MW-6I	EPA 7470	622654	EPA 7470	623821
50287892003	MW-6D	EPA 7470	622654	EPA 7470	623821
50287892004	FIELD BLANK 1	EPA 7470	622654	EPA 7470	623821
50287892001	MW-6S	EPA 903.1	451446		
50287892002	MW-6I	EPA 903.1	451446		
50287892003	MW-6D	EPA 903.1	451446		
50287892004	FIELD BLANK 1	EPA 903.1	451446		
50287892001	MW-6S	EPA 904.0	451447		
50287892002	MW-6I	EPA 904.0	451447		
50287892003	MW-6D	EPA 904.0	451447		
50287892004	FIELD BLANK 1	EPA 904.0	451447		
50287892001	MW-6S	Total Radium Calculation	453604		
50287892002	MW-6I	Total Radium Calculation	453604		
50287892003	MW-6D	Total Radium Calculation	453604		
50287892004	FIELD BLANK 1	Total Radium Calculation	453604		
50287892001	MW-6S	SM 2320B	622906		
50287892002	MW-6I	SM 2320B	622906		
50287892003	MW-6D	SM 2320B	622906		
50287892004	FIELD BLANK 1	SM 2320B	622906		
50287892001	MW-6S	SM 2540C	622049		
50287892002	MW-6I	SM 2540C	622049		
50287892003	MW-6D	SM 2540C	622049		
50287892004	FIELD BLANK 1	SM 2540C	622049		
50287892001	MW-6S	SM 4500-H+B	623396		
50287892002	MW-6I	SM 4500-H+B	623396		
50287892003	MW-6D	SM 4500-H+B	623396		
50287892004	FIELD BLANK 1	SM 4500-H+B	623396		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile 1 Report1

Pace Project No.: 50287892

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287892001	MW-6S	SM 4500-S2-D	621740		
50287892002	MW-6I	SM 4500-S2-D	621740		
50287892003	MW-6D	SM 4500-S2-D	621740		
50287892004	FIELD BLANK 1	SM 4500-S2-D	621740		
50287892001	MW-6S	HACH 8146	622594		
50287892002	MW-6I	HACH 8146	622594		
50287892003	MW-6D	HACH 8146	622594		
50287892004	FIELD BLANK 1	HACH 8146	622594		
50287892001	MW-6S	EPA 353.2	621732		
50287892002	MW-6I	EPA 353.2	621732		
50287892003	MW-6D	EPA 353.2	621732		
50287892004	FIELD BLANK 1	EPA 353.2	621732		
50287892001	MW-6S	EPA 365.1	623020	EPA 365.1	623215
50287892002	MW-6I	EPA 365.1	623020	EPA 365.1	623215
50287892003	MW-6D	EPA 365.1	623020	EPA 365.1	623215
50287892004	FIELD BLANK 1	EPA 365.1	623020	EPA 365.1	623215
50287892001	MW-6S	SM 5310C	623563		
50287892002	MW-6I	SM 5310C	623563		
50287892003	MW-6D	SM 5310C	623563		
50287892004	FIELD BLANK 1	SM 5310C	623563		
50287892001	MW-6S	SM 5310C	623644		
50287892002	MW-6I	SM 5310C	623644		
50287892003	MW-6D	SM 5310C	623644		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DAP 5/19/21 1625

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: 2.2/1.6, 3.1/2.5  
 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>No/none</u>	/		Circle: <u>HNO3 (&lt;2)</u> <u>H2SO4 (&lt;2)</u> NaOH (>10) <u>NaOH/ZnAc (&gt;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>1645</u>	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Custody Signatures Present?	/		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Containers Intact?:	/		Headspace Wisconsin Sulfide?			/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Present?		/	
			Trip Blank Custody Seals?:			/

COMMENTS:

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September 22, 2021

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

RE: Project: Eagle Valley P1R2  
Pace Project No.: 50287915

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 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: Eagle Valley P1R2  
Pace Project No.: 50287915

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287915001	MW-19S	Water	05/19/21 16:15	05/19/21 17:50
50287915002	MW-19I	Water	05/19/21 14:10	05/19/21 17:50
50287915003	MW-19D	Water	05/19/21 12:15	05/19/21 17:50
50287915004	FIELD BLANK 2	Water	05/19/21 16:50	05/19/21 17:50

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50287915001	MW-19S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	JPK	12	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	5	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	JC2	1	PASI-PA		
		Total Radium Calculation	JAL	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	SLB	2	PASI-I		
		EPA 365.1	SKK	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		SM 5310C	GWA	1	PASI-I		
		50287915002	MW-19I	EPA 9056	HBS	3	PASI-I
				EPA 6010	JPK	12	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			5	PASI-I		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	JC2			1	PASI-PA		
Total Radium Calculation	JAL			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	SLB			2	PASI-I		
EPA 365.1	SKK			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
SM 5310C	GWA			1	PASI-I		
50287915003	MW-19D			EPA 9056	HBS	3	PASI-I
				EPA 6010	JPK	12	PASI-I
				EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	5	PASI-I		
		EPA 903.1	MK1	1	PASI-PA		

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	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	SLB	2	PASI-I
		EPA 365.1	SKK	1	PASI-I
		SM 5310C	GWA	1	PASI-I
		SM 5310C	GWA	1	PASI-I
50287915004	FIELD BLANK 2	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6020	RAM	5	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	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	SLB	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

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50287915001</b>	<b>MW-19S</b>					
EPA 9056	Chloride	4.2	mg/L	0.25	06/02/21 14:25	
EPA 9056	Sulfate	13.1	mg/L	0.25	06/02/21 14:25	
EPA 6010	Barium	28.4	ug/L	10.0	05/30/21 01:10	
EPA 6010	Boron	355	ug/L	100	05/30/21 01:10	
EPA 6010	Calcium	98500	ug/L	1000	05/30/21 01:10	
EPA 6010	Iron	168	ug/L	100	05/30/21 01:10	
EPA 6010	Magnesium	26800	ug/L	1000	05/30/21 01:10	
EPA 6010	Manganese	19.2	ug/L	10.0	05/30/21 01:10	
EPA 6010	Potassium	1740	ug/L	1000	05/30/21 01:10	
EPA 6010	Silica	10800	ug/L	450	05/30/21 01:10	N2
EPA 6010	Sodium	12000	ug/L	1000	05/30/21 01:10	
EPA 903.1	Radium-226	-0.0607 ± 0.277 (0.653) C:NA T:90%	pCi/L		06/24/21 14:52	
EPA 904.0	Radium-228	0.560 ± 0.426 (0.843) C:67% T:91%	pCi/L		06/23/21 14:34	
Total Radium Calculation	Total Radium	0.560 ± 0.703 (1.50)	pCi/L		06/25/21 07:28	
SM 2320B	Alkalinity, Total as CaCO3	327	mg/L	2.0	05/26/21 13:38	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	327	mg/L	2.0	05/26/21 13:38	
SM 2540C	Total Dissolved Solids	374	mg/L	10.0	05/24/21 10:52	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/28/21 11:52	H3
EPA 353.2	Nitrogen, Nitrate	11.1	mg/L	2.0	05/20/21 10:27	
EPA 365.1	Phosphate as P04	0.24	mg/L	0.15	05/27/21 18:12	
<b>50287915002</b>	<b>MW-19I</b>					
EPA 9056	Chloride	117	mg/L	25.0	06/02/21 15:30	
EPA 9056	Sulfate	239	mg/L	25.0	06/02/21 15:30	
EPA 6010	Barium	74.4	ug/L	10.0	05/30/21 01:12	
EPA 6010	Boron	5060	ug/L	100	05/30/21 01:12	
EPA 6010	Calcium	122000	ug/L	1000	05/30/21 01:12	
EPA 6010	Iron	190	ug/L	100	05/30/21 01:12	
EPA 6010	Lithium	103	ug/L	20.0	05/30/21 01:12	
EPA 6010	Magnesium	26800	ug/L	1000	05/30/21 01:12	
EPA 6010	Manganese	109	ug/L	10.0	05/30/21 01:12	
EPA 6010	Molybdenum	132	ug/L	10.0	05/30/21 01:12	
EPA 6010	Potassium	7450	ug/L	1000	05/30/21 01:12	
EPA 6010	Silica	13000	ug/L	450	05/30/21 01:12	N2
EPA 6010	Sodium	93000	ug/L	1000	05/30/21 01:12	
EPA 6010	Manganese, Dissolved	106	ug/L	10.0	05/28/21 23:24	
EPA 6010	Molybdenum, Dissolved	134	ug/L	10.0	05/28/21 23:24	
EPA 903.1	Radium-226	0.694 ± 0.599 (0.890) C:NA T:88%	pCi/L		06/24/21 14:52	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287915002</b>	<b>MW-19I</b>					
EPA 904.0	Radium-228	0.929 ± 0.516 (0.946) C:67% T:83%	pCi/L		06/23/21 14:34	
Total Radium Calculation	Total Radium	1.62 ± 1.12 (1.84)	pCi/L		06/25/21 07:28	
SM 2320B	Alkalinity, Total as CaCO3	233	mg/L	2.0	05/26/21 13:38	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	233	mg/L	2.0	05/26/21 13:38	
SM 2540C	Total Dissolved Solids	700	mg/L	20.0	05/24/21 10:52	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/28/21 11:54	H3
<b>50287915003</b>	<b>MW-19D</b>					
EPA 9056	Chloride	144	mg/L	25.0	06/03/21 11:13	
EPA 9056	Sulfate	232	mg/L	25.0	06/03/21 11:13	
EPA 6010	Aluminum	757	ug/L	200	05/30/21 01:14	
EPA 6010	Barium	69.3	ug/L	10.0	05/30/21 01:14	
EPA 6010	Boron	5850	ug/L	100	05/30/21 01:14	
EPA 6010	Calcium	125000	ug/L	1000	05/30/21 01:14	
EPA 6010	Iron	1580	ug/L	100	05/30/21 01:14	
EPA 6010	Lithium	26.2	ug/L	20.0	05/30/21 01:14	
EPA 6010	Magnesium	30500	ug/L	1000	05/30/21 01:14	
EPA 6010	Manganese	503	ug/L	10.0	05/30/21 01:14	
EPA 6010	Molybdenum	17.1	ug/L	10.0	05/30/21 01:14	
EPA 6010	Potassium	4580	ug/L	1000	05/30/21 01:14	
EPA 6010	Silica	16800	ug/L	450	05/30/21 01:14	N2
EPA 6010	Sodium	104000	ug/L	1000	05/30/21 01:14	
EPA 6010	Manganese, Dissolved	460	ug/L	10.0	05/28/21 23:26	
EPA 6010	Molybdenum, Dissolved	14.3	ug/L	10.0	05/28/21 23:26	
EPA 6020	Arsenic	1.7	ug/L	1.0	05/28/21 12:22	
EPA 6020	Cobalt	1.1	ug/L	1.0	05/28/21 12:22	
EPA 903.1	Radium-226	0.368 ± 0.383 (0.570) C:NA T:87%	pCi/L		06/24/21 14:52	
EPA 904.0	Radium-228	0.815 ± 0.501 (0.943) C:67% T:83%	pCi/L		06/23/21 14:34	
Total Radium Calculation	Total Radium	1.18 ± 0.884 (1.51)	pCi/L		06/25/21 07:28	
SM 2320B	Alkalinity, Total as CaCO3	223	mg/L	2.0	05/27/21 13:55	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	223	mg/L	2.0	05/27/21 13:55	
SM 2540C	Total Dissolved Solids	764	mg/L	20.0	05/24/21 10:53	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/28/21 11:55	H3
EPA 365.1	Phosphate as P04	0.17	mg/L	0.15	05/27/21 18:15	

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### SUMMARY OF DETECTION

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50287915004</b>	<b>FIELD BLANK 2</b>					
EPA 903.1	Radium-226	-0.0644 ± 0.334 (0.773) C:NA T:90%	pCi/L		06/24/21 14:52	
EPA 904.0	Radium-228	0.419 ± 0.478 (1.01) C:67% T:82%	pCi/L		06/23/21 14:34	
Total Radium Calculation	Total Radium	0.419 ± 0.812 (1.78)	pCi/L		06/25/21 07:28	
SM 4500-H+B	pH at 25 Degrees C	5.8	Std. Units	0.10	05/28/21 12:01	H3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-19S	Lab ID: 50287915001	Collected: 05/19/21 16:15	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	4.2	mg/L	0.25	1		06/02/21 14:25	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/02/21 14:25	16984-48-8	
Sulfate	13.1	mg/L	0.25	1		06/02/21 14:25	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 01:10	7429-90-5	
Barium	28.4	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:10	7440-39-3	
Boron	355	ug/L	100	1	05/28/21 07:11	05/30/21 01:10	7440-42-8	
Calcium	98500	ug/L	1000	1	05/28/21 07:11	05/30/21 01:10	7440-70-2	
Iron	168	ug/L	100	1	05/28/21 07:11	05/30/21 01:10	7439-89-6	
Lithium	ND	ug/L	20.0	1	05/28/21 07:11	05/30/21 01:10	7439-93-2	
Magnesium	26800	ug/L	1000	1	05/28/21 07:11	05/30/21 01:10	7439-95-4	
Manganese	19.2	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:10	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:10	7439-98-7	
Potassium	1740	ug/L	1000	1	05/28/21 07:11	05/30/21 01:10	7440-09-7	
Silica	10800	ug/L	450	1	05/28/21 07:11	05/30/21 01:10	7631-86-9	N2
Sodium	12000	ug/L	1000	1	05/28/21 07:11	05/30/21 01:10	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:22	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:22	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:09	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:09	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:09	7440-48-4	
Lead	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:09	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:09	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	327	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Bicarbonate (CaCO3)	327	mg/L	2.0	1		05/26/21 13:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	374	mg/L	10.0	1		05/24/21 10:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/28/21 11:52		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-19S	Lab ID: 50287915001	Collected: 05/19/21 16:15	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:43		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	11.1	mg/L	2.0	20		05/20/21 10:27	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	2.0	20		05/20/21 10:27	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P04	0.24	mg/L	0.15	1	05/27/21 14:53	05/27/21 18:12		
<b>5310C TOC</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 22:27	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 17:04		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-191	Lab ID: 50287915002	Collected: 05/19/21 14:10	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	117	mg/L	25.0	100		06/02/21 15:30	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/02/21 15:14	16984-48-8	
Sulfate	239	mg/L	25.0	100		06/02/21 15:30	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 01:12	7429-90-5	
Barium	74.4	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:12	7440-39-3	
Boron	5060	ug/L	100	1	05/28/21 07:11	05/30/21 01:12	7440-42-8	
Calcium	122000	ug/L	1000	1	05/28/21 07:11	05/30/21 01:12	7440-70-2	
Iron	190	ug/L	100	1	05/28/21 07:11	05/30/21 01:12	7439-89-6	
Lithium	103	ug/L	20.0	1	05/28/21 07:11	05/30/21 01:12	7439-93-2	
Magnesium	26800	ug/L	1000	1	05/28/21 07:11	05/30/21 01:12	7439-95-4	
Manganese	109	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:12	7439-96-5	
Molybdenum	132	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:12	7439-98-7	
Potassium	7450	ug/L	1000	1	05/28/21 07:11	05/30/21 01:12	7440-09-7	
Silica	13000	ug/L	450	1	05/28/21 07:11	05/30/21 01:12	7631-86-9	N2
Sodium	93000	ug/L	1000	1	05/28/21 07:11	05/30/21 01:12	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	106	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:24	7439-96-5	
Molybdenum, Dissolved	134	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:24	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:14	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:14	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:14	7440-48-4	
Lead	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:14	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:14	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	233	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Bicarbonate (CaCO3)	233	mg/L	2.0	1		05/26/21 13:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/26/21 13:38		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	700	mg/L	20.0	1		05/24/21 10:52		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		05/28/21 11:54		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-191	Lab ID: 50287915002	Collected: 05/19/21 14:10	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D								
Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146								
Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:43		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2								
Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 08:28	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 08:28	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1								
Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 14:53	05/27/21 18:15		
<b>5310C TOC</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 22:37	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 17:15		

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-19D	Lab ID: 50287915003	Collected: 05/19/21 12:15	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	144	mg/L	25.0	100		06/03/21 11:13	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/02/21 15:47	16984-48-8	
Sulfate	232	mg/L	25.0	100		06/03/21 11:13	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	757	ug/L	200	1	05/28/21 07:11	05/30/21 01:14	7429-90-5	
Barium	69.3	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:14	7440-39-3	
Boron	5850	ug/L	100	1	05/28/21 07:11	05/30/21 01:14	7440-42-8	
Calcium	125000	ug/L	1000	1	05/28/21 07:11	05/30/21 01:14	7440-70-2	
Iron	1580	ug/L	100	1	05/28/21 07:11	05/30/21 01:14	7439-89-6	
Lithium	26.2	ug/L	20.0	1	05/28/21 07:11	05/30/21 01:14	7439-93-2	
Magnesium	30500	ug/L	1000	1	05/28/21 07:11	05/30/21 01:14	7439-95-4	
Manganese	503	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:14	7439-96-5	
Molybdenum	17.1	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:14	7439-98-7	
Potassium	4580	ug/L	1000	1	05/28/21 07:11	05/30/21 01:14	7440-09-7	
Silica	16800	ug/L	450	1	05/28/21 07:11	05/30/21 01:14	7631-86-9	N2
Sodium	104000	ug/L	1000	1	05/28/21 07:11	05/30/21 01:14	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	460	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:26	7439-96-5	
Molybdenum, Dissolved	14.3	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:26	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:22	7440-36-0	
Arsenic	1.7	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:22	7440-38-2	
Cobalt	1.1	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:22	7440-48-4	
Lead	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:22	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:22	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	223	mg/L	2.0	1		05/27/21 13:55		
Alkalinity,Bicarbonate (CaCO3)	223	mg/L	2.0	1		05/27/21 13:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/27/21 13:55		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	764	mg/L	20.0	1		05/24/21 10:53		
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/28/21 11:55		H3

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

Sample: MW-19D	Lab ID: 50287915003	Collected: 05/19/21 12:15	Received: 05/19/21 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:42		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 08:24	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 08:24	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.17	mg/L	0.15	1	05/27/21 14:53	05/27/21 18:15		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 22:52	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 17:26		

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### ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: FIELD BLANK 2**      **Lab ID: 50287915004**      Collected: 05/19/21 16:50      Received: 05/19/21 17:50      Matrix: Water

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis. The samples were not preserved <2 within the required 5 days of collection.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		06/02/21 16:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/02/21 16:19	16984-48-8	
Sulfate	ND	mg/L	0.25	1		06/02/21 16:19	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010      Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 07:11	05/30/21 01:16	7429-90-5	
Barium	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:16	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 01:16	7440-42-8	
Calcium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:16	7440-70-2	
Iron	ND	ug/L	100	1	05/28/21 07:11	05/30/21 01:16	7439-89-6	
Lithium	ND	ug/L	20.0	1	05/28/21 07:11	05/30/21 01:16	7439-93-2	
Magnesium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:16	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:16	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 07:11	05/30/21 01:16	7439-98-7	
Potassium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:16	7440-09-7	
Silica	ND	ug/L	450	1	05/28/21 07:11	05/30/21 01:16	7631-86-9	N2
Sodium	ND	ug/L	1000	1	05/28/21 07:11	05/30/21 01:16	7440-23-5	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020      Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:27	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:27	7440-38-2	
Cobalt	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:27	7440-48-4	
Lead	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:27	7439-92-1	
Selenium	ND	ug/L	1.0	1	05/26/21 08:15	05/28/21 12:27	7782-49-2	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	ND	mg/L	2.0	1		05/27/21 13:55		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	2.0	1		05/27/21 13:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		05/27/21 13:55		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		05/24/21 10:54		PL
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	<b>5.8</b>	Std. Units	0.10	1		05/28/21 12:01		H3

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## ANALYTICAL RESULTS

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: FIELD BLANK 2**      **Lab ID: 50287915004**      Collected: 05/19/21 16:50      Received: 05/19/21 17:50      Matrix: Water

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis. The samples were not preserved <2 within the required 5 days of collection.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>								
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/20/21 10:09	18496-25-8	
<b>Iron, Ferrous</b>								
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:44		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>								
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 10:28	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 10:28	14797-65-0	
<b>365.1 Total Phosphorus</b>								
Analytical Method: EPA 365.1      Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/27/21 14:53	05/27/21 18:16		
<b>5310C TOC</b>								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		05/28/21 23:02	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 624108	Analysis Method: EPA 9056
QC Batch Method: EPA 9056	Analysis Description: 9056 IC Anions
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2875648 Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/02/21 11:28	
Fluoride	mg/L	ND	0.10	06/02/21 11:28	
Sulfate	mg/L	ND	0.25	06/02/21 11:28	

LABORATORY CONTROL SAMPLE: 2875649

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: 2875650 2875651

Parameter	Units	50287915001		50287915002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.								
Chloride	mg/L	4.2	1.2	1.2	5.6	5.6	111	109	80-120	1	15		
Fluoride	mg/L	ND	0.5	0.5	0.52	0.52	90	91	80-120	1	15		
Sulfate	mg/L	13.1	2.5	2.5	15.5	15.5	96	96	80-120	0	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 622322

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2868236

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/30/21 00:46	
Barium	ug/L	ND	10.0	05/30/21 00:46	
Boron	ug/L	ND	100	05/30/21 00:46	
Calcium	ug/L	ND	1000	05/30/21 00:46	
Iron	ug/L	ND	100	05/30/21 00:46	
Lithium	ug/L	ND	20.0	05/30/21 00:46	
Magnesium	ug/L	ND	1000	05/30/21 00:46	
Manganese	ug/L	ND	10.0	05/30/21 00:46	
Molybdenum	ug/L	ND	10.0	05/30/21 00:46	
Potassium	ug/L	ND	1000	05/30/21 00:46	
Silica	ug/L	ND	450	05/30/21 00:46	N2
Sodium	ug/L	ND	1000	05/30/21 00:46	

LABORATORY CONTROL SAMPLE: 2868237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	80-120	
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	9950	99	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9830	98	80-120	
Manganese	ug/L	1000	985	98	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	9690	97	80-120	
Silica	ug/L	10700	10600	99		N2
Sodium	ug/L	10000	9720	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868238 2868239

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287892004 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	ug/L	ND	10000	10000	9750	9680	98	97	75-125	1	20
Barium	ug/L	ND	1000	1000	994	984	99	98	75-125	1	20
Boron	ug/L	ND	1000	1000	996	989	99	98	75-125	1	20
Calcium	ug/L	ND	10000	10000	11800	11900	116	117	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868238												2868239		
Parameter	Units	50287892004 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.										
Iron	ug/L	ND	10000	10000	9850	9780	98	98	75-125	1	20			
Lithium	ug/L	ND	1000	1000	998	987	100	99	75-125	1	20			
Magnesium	ug/L	ND	10000	10000	9900	9840	99	98	75-125	1	20			
Manganese	ug/L	ND	1000	1000	985	975	98	97	75-125	1	20			
Molybdenum	ug/L	ND	1000	1000	1050	1040	105	104	75-125	1	20			
Potassium	ug/L	ND	10000	10000	9600	9350	95	93	75-125	3	20			
Silica	ug/L	ND	10700	10700	10400	10400	97	97		0	N2			
Sodium	ug/L	ND	10000	10000	9600	9490	95	94	75-125	1	20			

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	622373	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287915001, 50287915002, 50287915003		

METHOD BLANK: 2868351 Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/28/21 22:37	
Molybdenum, Dissolved	ug/L	ND	10.0	05/28/21 22:37	

LABORATORY CONTROL SAMPLE: 2868352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	989	99	80-120	
Molybdenum, Dissolved	ug/L	1000	1070	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868353 2868354

Parameter	Units	50288037002 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	ND	1000	1000	975	952	97	95	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1070	1050	107	105	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	622829	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2870048 Matrix: Water  
Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/28/21 02:04	
Arsenic	ug/L	ND	1.0	05/28/21 02:04	
Cobalt	ug/L	ND	1.0	05/28/21 02:04	
Lead	ug/L	ND	1.0	05/28/21 02:04	
Selenium	ug/L	ND	1.0	05/28/21 02:04	

LABORATORY CONTROL SAMPLE: 2870049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.3	98	80-120	
Arsenic	ug/L	40	39.0	98	80-120	
Cobalt	ug/L	40	39.4	98	80-120	
Lead	ug/L	40	39.5	99	80-120	
Selenium	ug/L	40	40.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870050 2870051

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287892001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	1.4	40	40	42.1	42.7	102	103	75-125	1	20
Arsenic	ug/L	ND	40	40	39.1	39.0	97	97	75-125	0	20
Cobalt	ug/L	ND	40	40	36.9	36.6	91	91	75-125	1	20
Lead	ug/L	ND	40	40	39.2	38.9	98	97	75-125	1	20
Selenium	ug/L	14.2	40	40	55.4	51.7	103	94	75-125	7	20

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 622906

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002

METHOD BLANK: 2870256

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	2.0	05/26/21 13:38	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/26/21 13:38	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/26/21 13:38	

LABORATORY CONTROL SAMPLE: 2870257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	51.0	102	90-110	

SAMPLE DUPLICATE: 2870258

Parameter	Units	50287916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	222	221	0	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	201	201	0	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	20.8	20.6	1	20	

SAMPLE DUPLICATE: 2870259

Parameter	Units	50287916002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	241	244	1	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	241	244	1	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 622996

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915003, 50287915004

METHOD BLANK: 2870785

Matrix: Water

Associated Lab Samples: 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	2.0	05/27/21 13:55	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/27/21 13:55	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	2.0	05/27/21 13:55	

LABORATORY CONTROL SAMPLE: 2870786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	50.7	101	90-110	

SAMPLE DUPLICATE: 2870788

Parameter	Units	50287945005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	679	676	1	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	679	676	1	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<2.0	ND		20	

SAMPLE DUPLICATE: 2871837

Parameter	Units	50287951004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	997	993	0	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	997	993	0	20	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	622387	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2868392 Matrix: Water  
Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/24/21 10:43	

LABORATORY CONTROL SAMPLE: 2868395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 2868393

Parameter	Units	50288001011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1590	1600	1	10	

SAMPLE DUPLICATE: 2868394

Parameter	Units	50288001012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1040	0	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 623396

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: 50287915001, 50287915002, 50287915003, 50287915004

SAMPLE DUPLICATE: 2872633

Parameter	Units	50287892001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2872634

Parameter	Units	50287903004 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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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	621740	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: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2865190 Matrix: Water  
Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/20/21 10:09	

LABORATORY CONTROL SAMPLE: 2865191

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: 2865192 2865193

Parameter	Units	2865192		2865193		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50287762001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	94	90-110	3	20

MATRIX SPIKE SAMPLE: 2865194

Parameter	Units	50287892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.48	96	90-110	

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**QUALITY CONTROL DATA**

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	622594	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287915001, 50287915002, 50287915003, 50287915004		

METHOD BLANK:	2869009	Matrix:	Water
Associated Lab Samples:	50287915001, 50287915002, 50287915003, 50287915004		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:37	H3,N2

LABORATORY CONTROL SAMPLE:	2869010
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	104	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2869011	2869012
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Parameter	Units	50288037002 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	102	101	90-110	1	20	H3,N2

MATRIX SPIKE SAMPLE:	2869013
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Parameter	Units	50287762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.1	106	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	621732	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: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2865165 Matrix: Water  
Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/20/21 07:39	
Nitrogen, Nitrite	mg/L	ND	0.10	05/20/21 07:39	

LABORATORY CONTROL SAMPLE: 2865166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	109	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865167 2865168

Parameter	Units	50287875001		2865168		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Nitrate	mg/L	4.7	2	2	6.8	6.7	108	103	90-110	1	20
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	1.9	100	95	90-110	5	20

MATRIX SPIKE SAMPLE: 2865169

Parameter	Units	50287915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.1	111	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch:	623120	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: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2871210 Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/27/21 18:00	

LABORATORY CONTROL SAMPLE: 2871211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871212 2871213

Parameter	Units	50287720001 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			1.4	1.6				16		

MATRIX SPIKE SAMPLE: 2871214

Parameter	Units	50287915001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.24		1.6			

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 623563

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2873514

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/28/21 19:09	

LABORATORY CONTROL SAMPLE: 2873515

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: 2873516 2873517

Parameter	Units	50287804007 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	9.4	9.4	94	94	80-120	0	20	

MATRIX SPIKE SAMPLE: 2873518

Parameter	Units	50287892003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	9.1	91	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 623644

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287915001, 50287915002, 50287915003

METHOD BLANK: 2873938

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/29/21 13:34	

LABORATORY CONTROL SAMPLE: 2873939

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: 2873940 2873941

Parameter	Units	50287892003 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	10.5	10.4	95	94	80-120	1	20	

MATRIX SPIKE SAMPLE: 2873942

Parameter	Units	50287915003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	9.1	91	80-120	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: MW-19S**      **Lab ID: 50287915001**      Collected: 05/19/21 16:15      Received: 05/19/21 17:50      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	<b>-0.0607 ± 0.277 (0.653)</b> <b>C:NA T:90%</b>	pCi/L	06/24/21 14:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.560 ± 0.426 (0.843)</b> <b>C:67% T:91%</b>	pCi/L	06/23/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.560 ± 0.703 (1.50)</b>	pCi/L	06/25/21 07:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: MW-191**      **Lab ID: 50287915002**      Collected: 05/19/21 14:10      Received: 05/19/21 17:50      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	<b>0.694 ± 0.599 (0.890)</b> <b>C:NA T:88%</b>	pCi/L	06/24/21 14:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.929 ± 0.516 (0.946)</b> <b>C:67% T:83%</b>	pCi/L	06/23/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.62 ± 1.12 (1.84)</b>	pCi/L	06/25/21 07:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: MW-19D**      **Lab ID: 50287915003**      Collected: 05/19/21 12:15      Received: 05/19/21 17:50      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	<b>0.368 ± 0.383 (0.570)</b> <b>C:NA T:87%</b>	pCi/L	06/24/21 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.815 ± 0.501 (0.943)</b> <b>C:67% T:83%</b>	pCi/L	06/23/21 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.18 ± 0.884 (1.51)</b>	pCi/L	06/25/21 07:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley P1R2

Pace Project No.: 50287915

**Sample: FIELD BLANK 2**      **Lab ID: 50287915004**      Collected: 05/19/21 16:50      Received: 05/19/21 17:50      Matrix: Water

PWS:      Site ID:      Sample Type:

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis. The samples were not preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>-0.0644 ± 0.334 (0.773)</b> <b>C:NA T:90%</b>	pCi/L	06/24/21 14:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.419 ± 0.478 (1.01)</b> <b>C:67% T:82%</b>	pCi/L	06/23/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.419 ± 0.812 (1.78)</b>	pCi/L	06/25/21 07:28	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 451466

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: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2178868

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0489 ± 0.346 (0.690) C:NA T:92%	pCi/L	06/24/21 14:52	

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: Eagle Valley P1R2

Pace Project No.: 50287915

QC Batch: 451467

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: 50287915001, 50287915002, 50287915003, 50287915004

METHOD BLANK: 2178870

Matrix: Water

Associated Lab Samples: 50287915001, 50287915002, 50287915003, 50287915004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.149 ± 0.342 (0.762) C:64% T:85%	pCi/L	06/23/21 14:36	

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: Eagle Valley P1R2  
Pace Project No.: 50287915

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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.

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: Eagle Valley P1R2  
Pace Project No.: 50287915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287915001	MW-19S	EPA 9056	624108		
50287915002	MW-19I	EPA 9056	624108		
50287915003	MW-19D	EPA 9056	624108		
50287915004	FIELD BLANK 2	EPA 9056	624108		
50287915001	MW-19S	EPA 3010	622322	EPA 6010	623690
50287915002	MW-19I	EPA 3010	622322	EPA 6010	623690
50287915003	MW-19D	EPA 3010	622322	EPA 6010	623690
50287915004	FIELD BLANK 2	EPA 3010	622322	EPA 6010	623690
50287915001	MW-19S	EPA 3010	622373	EPA 6010	623593
50287915002	MW-19I	EPA 3010	622373	EPA 6010	623593
50287915003	MW-19D	EPA 3010	622373	EPA 6010	623593
50287915001	MW-19S	EPA 200.2	622829	EPA 6020	622958
50287915002	MW-19I	EPA 200.2	622829	EPA 6020	622958
50287915003	MW-19D	EPA 200.2	622829	EPA 6020	622958
50287915004	FIELD BLANK 2	EPA 200.2	622829	EPA 6020	622958
50287915001	MW-19S	EPA 903.1	451466		
50287915002	MW-19I	EPA 903.1	451466		
50287915003	MW-19D	EPA 903.1	451466		
50287915004	FIELD BLANK 2	EPA 903.1	451466		
50287915001	MW-19S	EPA 904.0	451467		
50287915002	MW-19I	EPA 904.0	451467		
50287915003	MW-19D	EPA 904.0	451467		
50287915004	FIELD BLANK 2	EPA 904.0	451467		
50287915001	MW-19S	Total Radium Calculation	454027		
50287915002	MW-19I	Total Radium Calculation	454027		
50287915003	MW-19D	Total Radium Calculation	454027		
50287915004	FIELD BLANK 2	Total Radium Calculation	454027		
50287915001	MW-19S	SM 2320B	622906		
50287915002	MW-19I	SM 2320B	622906		
50287915003	MW-19D	SM 2320B	622996		
50287915004	FIELD BLANK 2	SM 2320B	622996		
50287915001	MW-19S	SM 2540C	622387		
50287915002	MW-19I	SM 2540C	622387		
50287915003	MW-19D	SM 2540C	622387		
50287915004	FIELD BLANK 2	SM 2540C	622387		
50287915001	MW-19S	SM 4500-H+B	623396		
50287915002	MW-19I	SM 4500-H+B	623396		
50287915003	MW-19D	SM 4500-H+B	623396		
50287915004	FIELD BLANK 2	SM 4500-H+B	623396		
50287915001	MW-19S	SM 4500-S2-D	621740		
50287915002	MW-19I	SM 4500-S2-D	621740		
50287915003	MW-19D	SM 4500-S2-D	621740		
50287915004	FIELD BLANK 2	SM 4500-S2-D	621740		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Eagle Valley P1R2  
Pace Project No.: 50287915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287915001	MW-19S	HACH 8146	622594		
50287915002	MW-19I	HACH 8146	622594		
50287915003	MW-19D	HACH 8146	622594		
50287915004	FIELD BLANK 2	HACH 8146	622594		
50287915001	MW-19S	EPA 353.2	621732		
50287915002	MW-19I	EPA 353.2	621732		
50287915003	MW-19D	EPA 353.2	621732		
50287915004	FIELD BLANK 2	EPA 353.2	621732		
50287915001	MW-19S	EPA 365.1	623120	EPA 365.1	623304
50287915002	MW-19I	EPA 365.1	623120	EPA 365.1	623304
50287915003	MW-19D	EPA 365.1	623120	EPA 365.1	623304
50287915004	FIELD BLANK 2	EPA 365.1	623120	EPA 365.1	623304
50287915001	MW-19S	SM 5310C	623563		
50287915002	MW-19I	SM 5310C	623563		
50287915003	MW-19D	SM 5310C	623563		
50287915004	FIELD BLANK 2	SM 5310C	623563		
50287915001	MW-19S	SM 5310C	623644		
50287915002	MW-19I	SM 5310C	623644		
50287915003	MW-19D	SM 5310C	623644		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: MRP 5/19/21 1815

- 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: 4.6/4.6 , 3.2/3.2  
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:	hrp 5/20/21 ✓	X	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 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:

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July 27, 2021

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

RE: Project: Eagle Valley Prof 1 Report 3  
Pace Project No.: 50288037

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 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: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50288037001	MW-13S	Water	05/20/21 11:25	05/20/21 16:35
50288037002	MW-13I	Water	05/20/21 12:45	05/20/21 16:35
50288037003	MW-13D	Water	05/20/21 14:25	05/20/21 16:35
50288037004	DUP 3	Water	05/20/21 08:00	05/20/21 16:35
50288037005	FIELD BLANK 3	Water	05/20/21 14:50	05/20/21 16:35
50288037006	MW-13I MS	Water	05/20/21 12:45	05/20/21 16:35
50288037007	MW-13I MSD	Water	05/20/21 12:45	05/20/21 16:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50288037001	MW-13S	EPA 9056	HBS, RMR	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	6	PASI-I		
		EPA 7470	LBT	1	PASI-I		
		EPA 903.1	MK1	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	SWJ	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		
		50288037002	MW-13I	EPA 9056	RMR	3	PASI-I
				EPA 6010	JDG	15	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			6	PASI-I		
EPA 7470	LBT			1	PASI-I		
EPA 903.1	MK1			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	SWJ			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		
50288037003	MW-13D			EPA 9056	RMR	3	PASI-I
				EPA 6010	JDG	15	PASI-I
				EPA 6010	JPK	2	PASI-I

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	RAM	6	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 903.1	MK1	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	SWJ	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
<b>50288037004</b>	<b>DUP 3</b>	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6010	JPK	2	PASI-I
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	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	SWJ	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
<b>50288037005</b>	<b>FIELD BLANK 3</b>	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	15	PASI-I
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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	SWJ	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
<b>50288037006</b>	<b>MW-13I MS</b>	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
<b>50288037007</b>	<b>MW-13I MSD</b>	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	JC2	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: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50288037001</b>	<b>MW-13S</b>					
EPA 9056	Chloride	21.6	mg/L	2.5	06/03/21 22:50	
EPA 9056	Sulfate	26.5	mg/L	2.5	06/03/21 22:50	
EPA 6010	Barium	51.0	ug/L	10.0	06/01/21 09:01	
EPA 6010	Calcium	125000	ug/L	1000	06/01/21 09:01	
EPA 6010	Iron	157	ug/L	100	06/01/21 09:01	
EPA 6010	Magnesium	33200	ug/L	1000	06/01/21 09:01	
EPA 6010	Manganese	23.1	ug/L	10.0	06/01/21 09:01	
EPA 6010	Potassium	2880	ug/L	1000	06/01/21 09:01	
EPA 6010	Silica	15300	ug/L	450	06/01/21 09:01	N2
EPA 6010	Sodium	11100	ug/L	1000	06/01/21 09:01	
EPA 903.1	Radium-226	0.178 ± 0.654 (1.26) C:NA T:96%	pCi/L		06/25/21 14:38	
EPA 904.0	Radium-228	0.441 ± 0.436 (0.893) C:72% T:96%	pCi/L		06/24/21 17:14	
Total Radium Calculation	Total Radium	0.619 ± 1.09 (2.15)	pCi/L		06/25/21 17:03	
SM 2320B	Alkalinity, Total as CaCO3	387	mg/L	2.0	06/01/21 12:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	387	mg/L	2.0	06/01/21 12:39	
SM 2540C	Total Dissolved Solids	480	mg/L	10.0	05/25/21 11:00	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/28/21 14:23	H3
EPA 353.2	Nitrogen, Nitrate	9.2	mg/L	2.0	05/21/21 08:56	
<b>50288037002</b>	<b>MW-13I</b>					
EPA 9056	Chloride	63.0	mg/L	2.5	06/03/21 07:56	
EPA 9056	Sulfate	29.7	mg/L	2.5	06/03/21 07:56	
EPA 6010	Barium	42.4	ug/L	10.0	06/01/21 09:03	
EPA 6010	Calcium	103000	ug/L	1000	06/01/21 09:03	
EPA 6010	Magnesium	32900	ug/L	1000	06/01/21 09:03	
EPA 6010	Potassium	1910	ug/L	1000	06/01/21 09:03	
EPA 6010	Silica	17800	ug/L	450	06/01/21 09:03	N2
EPA 6010	Sodium	17000	ug/L	1000	06/01/21 09:03	
EPA 903.1	Radium-226	0.000 ± 0.490 (1.02) C:NA T:89%	pCi/L		06/25/21 14:38	
EPA 904.0	Radium-228	-0.0470 ± 0.416 (0.986) C:72% T:91%	pCi/L		06/24/21 17:14	
Total Radium Calculation	Total Radium	0.000 ± 0.906 (2.01)	pCi/L		06/25/21 17:03	
SM 2320B	Alkalinity, Total as CaCO3	301	mg/L	2.0	06/01/21 12:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	301	mg/L	2.0	06/01/21 12:39	
SM 2540C	Total Dissolved Solids	447	mg/L	10.0	05/25/21 11:00	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50288037002</b>	<b>MW-13I</b>					
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/28/21 14:26	H3
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.10	05/21/21 08:35	
<b>50288037003</b>	<b>MW-13D</b>					
EPA 9056	Chloride	49.0	mg/L	25.0	06/03/21 09:01	
EPA 9056	Sulfate	45.0	mg/L	25.0	06/03/21 09:01	
EPA 6010	Barium	60.3	ug/L	10.0	06/01/21 09:17	
EPA 6010	Calcium	94700	ug/L	1000	06/01/21 09:17	
EPA 6010	Magnesium	30800	ug/L	1000	06/01/21 09:17	
EPA 6010	Manganese	32.9	ug/L	10.0	06/01/21 09:17	
EPA 6010	Potassium	1330	ug/L	1000	06/01/21 09:17	
EPA 6010	Silica	15700	ug/L	450	06/01/21 09:17	N2
EPA 6010	Sodium	14600	ug/L	1000	06/01/21 09:17	
EPA 6010	Manganese, Dissolved	24.1	ug/L	10.0	05/28/21 23:46	
EPA 6020	Selenium	1.2	ug/L	1.0	05/28/21 21:42	
EPA 903.1	Radium-226	0.353 ± 0.600 (1.06) C:NA T:89%	pCi/L		06/25/21 14:38	
EPA 904.0	Radium-228	0.427 ± 0.510 (1.08) C:79% T:92%	pCi/L		06/24/21 17:27	
Total Radium Calculation	Total Radium	0.780 ± 1.11 (2.14)	pCi/L		06/25/21 17:03	
SM 2320B	Alkalinity, Total as CaCO3	274	mg/L	2.0	06/01/21 12:39	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	274	mg/L	2.0	06/01/21 12:39	
SM 2540C	Total Dissolved Solids	397	mg/L	10.0	05/25/21 11:01	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/28/21 14:28	H3
EPA 353.2	Nitrogen, Nitrate	0.46	mg/L	0.10	05/21/21 08:48	
<b>50288037004</b>	<b>DUP 3</b>					
EPA 9056	Chloride	20.3	mg/L	2.5	06/03/21 10:07	
EPA 9056	Sulfate	24.0	mg/L	2.5	06/03/21 10:07	
EPA 6010	Barium	52.3	ug/L	10.0	06/01/21 09:19	
EPA 6010	Calcium	126000	ug/L	1000	06/01/21 09:19	
EPA 6010	Iron	134	ug/L	100	06/01/21 09:19	
EPA 6010	Magnesium	33800	ug/L	1000	06/01/21 09:19	
EPA 6010	Manganese	21.2	ug/L	10.0	06/01/21 09:19	
EPA 6010	Potassium	3000	ug/L	1000	06/01/21 09:19	
EPA 6010	Silica	15600	ug/L	450	06/01/21 09:19	N2
EPA 6010	Sodium	11200	ug/L	1000	06/01/21 09:19	
EPA 903.1	Radium-226	0.286 ± 0.561 (1.02) C:NA T:94%	pCi/L		06/25/21 14:38	

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### SUMMARY OF DETECTION

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50288037004</b>	<b>DUP 3</b>					
EPA 904.0	Radium-228	0.596 ± 0.591 (1.22) C:69% T:94%	pCi/L		06/24/21 18:05	
Total Radium Calculation	Total Radium	0.882 ± 1.15 (2.24)	pCi/L		06/25/21 17:03	
SM 2320B	Alkalinity, Total as CaCO3	379	mg/L	2.0	06/01/21 12:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	379	mg/L	2.0	06/01/21 12:39	
SM 2540C	Total Dissolved Solids	478	mg/L	10.0	05/25/21 11:01	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/28/21 14:32	H3
EPA 353.2	Nitrogen, Nitrate	9.5	mg/L	1.0	05/21/21 08:52	
<b>50288037005</b>	<b>FIELD BLANK 3</b>					
EPA 903.1	Radium-226	0.419 ± 0.638 (1.10) C:NA T:96%	pCi/L		06/25/21 14:38	
EPA 904.0	Radium-228	0.0437 ± 0.489 (1.13) C:69% T:88%	pCi/L		06/24/21 17:27	
Total Radium Calculation	Total Radium	0.463 ± 1.13 (2.23)	pCi/L		06/25/21 17:03	
SM 4500-H+B	pH at 25 Degrees C	6.1	Std. Units	0.10	05/28/21 14:38	H3
<b>50288037006</b>	<b>MW-13I MS</b>					
EPA 903.1	Radium-226	91.69 %REC ± NA (NA) C:NA T:NA%	pCi/L		06/25/21 14:52	
EPA 904.0	Radium-228	107.88 %REC ± NA (NA) C:NA T:NA	pCi/L		06/24/21 18:06	
<b>50288037007</b>	<b>MW-13I MSD</b>					
EPA 903.1	Radium-226	107.74 %REC 16.09 RPD ± NA (NA) C:NA T:NA%	pCi/L		06/25/21 14:52	
EPA 904.0	Radium-228	123.13 %REC 13.20 RPD ± NA (NA) C:NA T:NA	pCi/L		06/24/21 14:21	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13S	Lab ID: 50288037001	Collected: 05/20/21 11:25	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	21.6	mg/L	2.5	10		06/03/21 22:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/03/21 06:35	16984-48-8	
Sulfate	26.5	mg/L	2.5	10		06/03/21 22:50	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 13:49	06/01/21 09:01	7429-90-5	
Barium	51.0	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:01	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:01	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 13:49	06/01/21 09:01	7440-43-9	
Calcium	125000	ug/L	1000	1	05/28/21 13:49	06/01/21 09:01	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:01	7440-47-3	
Iron	157	ug/L	100	1	05/28/21 13:49	06/01/21 09:01	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:01	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 13:49	06/01/21 09:01	7439-93-2	
Magnesium	33200	ug/L	1000	1	05/28/21 13:49	06/01/21 09:01	7439-95-4	
Manganese	23.1	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:01	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:01	7439-98-7	
Potassium	2880	ug/L	1000	1	05/28/21 13:49	06/01/21 09:01	7440-09-7	
Silica	15300	ug/L	450	1	05/28/21 13:49	06/01/21 09:01	7631-86-9	N2
Sodium	11100	ug/L	1000	1	05/28/21 13:49	06/01/21 09:01	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:28	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:28	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:37	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:37	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/27/21 17:43	05/28/21 21:37	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:37	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:37	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:37	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/01/21 11:17	06/01/21 20:11	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	387	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Bicarbonate (CaCO3)	387	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13S	Lab ID: 50288037001	Collected: 05/20/21 11:25	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	480	mg/L	10.0	1		05/25/21 11:00		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		05/28/21 14:23		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/21/21 09:23	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:44		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	9.2	mg/L	2.0	20		05/21/21 08:56	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	2.0	20		05/21/21 08:56	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 10:30	05/30/21 08:16		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/01/21 18:17	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 20:45		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13I	Lab ID: 50288037002	Collected: 05/20/21 12:45	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	63.0	mg/L	2.5	10		06/03/21 07:56	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/03/21 07:07	16984-48-8	
Sulfate	29.7	mg/L	2.5	10		06/03/21 07:56	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 13:49	06/01/21 09:03	7429-90-5	
Barium	42.4	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:03	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:03	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 13:49	06/01/21 09:03	7440-43-9	
Calcium	103000	ug/L	1000	1	05/28/21 13:49	06/01/21 09:03	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:03	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:03	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:03	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 13:49	06/01/21 09:03	7439-93-2	
Magnesium	32900	ug/L	1000	1	05/28/21 13:49	06/01/21 09:03	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:03	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:03	7439-98-7	
Potassium	1910	ug/L	1000	1	05/28/21 13:49	06/01/21 09:03	7440-09-7	
Silica	17800	ug/L	450	1	05/28/21 13:49	06/01/21 09:03	7631-86-9	N2
Sodium	17000	ug/L	1000	1	05/28/21 13:49	06/01/21 09:03	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:31	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:31	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:07	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:07	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/27/21 17:43	05/28/21 21:07	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:07	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:07	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:07	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/01/21 11:17	06/01/21 20:13	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	301	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Bicarbonate (CaCO3)	301	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13I	Lab ID: 50288037002	Collected: 05/20/21 12:45	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	447	mg/L	10.0	1		05/25/21 11:00		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/28/21 14:26		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/21/21 09:23	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:45		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.4	mg/L	0.10	1		05/21/21 08:35	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 08:35	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 10:30	05/30/21 08:16		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/01/21 18:31	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 20:56		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13D	Lab ID: 50288037003	Collected: 05/20/21 14:25	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	49.0	mg/L	25.0	100		06/03/21 09:01	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/03/21 08:45	16984-48-8	
Sulfate	45.0	mg/L	25.0	100		06/03/21 09:01	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 13:49	06/01/21 09:17	7429-90-5	
Barium	60.3	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:17	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:17	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 13:49	06/01/21 09:17	7440-43-9	
Calcium	94700	ug/L	1000	1	05/28/21 13:49	06/01/21 09:17	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:17	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:17	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:17	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 13:49	06/01/21 09:17	7439-93-2	
Magnesium	30800	ug/L	1000	1	05/28/21 13:49	06/01/21 09:17	7439-95-4	
Manganese	32.9	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:17	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:17	7439-98-7	
Potassium	1330	ug/L	1000	1	05/28/21 13:49	06/01/21 09:17	7440-09-7	
Silica	15700	ug/L	450	1	05/28/21 13:49	06/01/21 09:17	7631-86-9	N2
Sodium	14600	ug/L	1000	1	05/28/21 13:49	06/01/21 09:17	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	24.1	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:46	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:46	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:42	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:42	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/27/21 17:43	05/28/21 21:42	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:42	7440-48-4	
Selenium	1.2	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:42	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:42	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/01/21 11:17	06/01/21 20:20	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	274	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Bicarbonate (CaCO3)	274	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: MW-13D	Lab ID: 50288037003	Collected: 05/20/21 14:25	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	397	mg/L	10.0	1		05/25/21 11:01		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/28/21 14:28		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/21/21 09:23	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:46		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.46	mg/L	0.10	1		05/21/21 08:48	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 08:48	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 10:30	05/30/21 08:18		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/01/21 19:07	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 21:27		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: DUP 3	Lab ID: 50288037004	Collected: 05/20/21 08:00	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	20.3	mg/L	2.5	10		06/03/21 10:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/03/21 09:50	16984-48-8	
Sulfate	24.0	mg/L	2.5	10		06/03/21 10:07	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 13:49	06/01/21 09:19	7429-90-5	
Barium	52.3	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:19	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:19	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 13:49	06/01/21 09:19	7440-43-9	
Calcium	126000	ug/L	1000	1	05/28/21 13:49	06/01/21 09:19	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:19	7440-47-3	
Iron	134	ug/L	100	1	05/28/21 13:49	06/01/21 09:19	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:19	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 13:49	06/01/21 09:19	7439-93-2	
Magnesium	33800	ug/L	1000	1	05/28/21 13:49	06/01/21 09:19	7439-95-4	
Manganese	21.2	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:19	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:19	7439-98-7	
Potassium	3000	ug/L	1000	1	05/28/21 13:49	06/01/21 09:19	7440-09-7	
Silica	15600	ug/L	450	1	05/28/21 13:49	06/01/21 09:19	7631-86-9	N2
Sodium	11200	ug/L	1000	1	05/28/21 13:49	06/01/21 09:19	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:48	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1	05/27/21 13:56	05/28/21 23:48	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:46	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:46	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/27/21 17:43	05/28/21 21:46	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:46	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:46	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:46	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 09:43	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	379	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Bicarbonate (CaCO3)	379	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: DUP 3	Lab ID: 50288037004	Collected: 05/20/21 08:00	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	478	mg/L	10.0	1		05/25/21 11:01		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		05/28/21 14:32		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/21/21 09:23	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:44		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	9.5	mg/L	1.0	10		05/21/21 08:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	1.0	10		05/21/21 08:52	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 10:30	05/30/21 08:19		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/01/21 19:38	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/29/21 21:37		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Sample: FIELD BLANK 3	Lab ID: 50288037005	Collected: 05/20/21 14:50	Received: 05/20/21 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		06/03/21 10:39	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/03/21 10:39	16984-48-8	
Sulfate	ND	mg/L	0.25	1		06/03/21 10:39	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/28/21 13:49	06/01/21 09:21	7429-90-5	
Barium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:21	7440-39-3	
Boron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:21	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/28/21 13:49	06/01/21 09:21	7440-43-9	
Calcium	ND	ug/L	1000	1	05/28/21 13:49	06/01/21 09:21	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:21	7440-47-3	
Iron	ND	ug/L	100	1	05/28/21 13:49	06/01/21 09:21	7439-89-6	
Lead	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:21	7439-92-1	
Lithium	ND	ug/L	20.0	1	05/28/21 13:49	06/01/21 09:21	7439-93-2	
Magnesium	ND	ug/L	1000	1	05/28/21 13:49	06/01/21 09:21	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:21	7439-96-5	
Molybdenum	ND	ug/L	10.0	1	05/28/21 13:49	06/01/21 09:21	7439-98-7	
Potassium	ND	ug/L	1000	1	05/28/21 13:49	06/01/21 09:21	7440-09-7	
Silica	ND	ug/L	450	1	05/28/21 13:49	06/01/21 09:21	7631-86-9	N2
Sodium	ND	ug/L	1000	1	05/28/21 13:49	06/01/21 09:21	7440-23-5	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:51	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:51	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/27/21 17:43	05/28/21 21:51	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:51	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:51	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/27/21 17:43	05/28/21 21:51	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	05/30/21 09:30	06/01/21 09:46	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	ND	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 12:39		
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		05/25/21 11:01		PL

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: FIELD BLANK 3      Lab ID: 50288037005      Collected: 05/20/21 14:50      Received: 05/20/21 16:35      Matrix: Water</b>								
<b>4500H+ pH, Electrometric</b> Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	6.1	Std. Units	0.10	1		05/28/21 14:38		H3
<b>4500S2D Sulfide Water</b> Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	1		05/21/21 09:23	18496-25-8	
<b>Iron, Ferrous</b> Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:46		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b> Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/21/21 08:50	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 08:50	14797-65-0	
<b>365.1 Total Phosphorus</b> Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 12:37	05/30/21 08:22		
<b>5310C TOC</b> Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	1		06/01/21 19:49	7440-44-0	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	624123	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2875677 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/02/21 14:32	
Fluoride	mg/L	ND	0.10	06/02/21 14:32	
Sulfate	mg/L	ND	0.25	06/02/21 14:32	

LABORATORY CONTROL SAMPLE: 2875678

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	0.45	90	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875679 2875680

Parameter	Units	50288037002		50288037003		50288037004		50288037005		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Chloride	mg/L	63.0	12.5	12.5	74.6	74.5	93	92	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.51	0.51	94	95	80-120	1	15		
Sulfate	mg/L	29.7	25	25	54.3	54.2	98	98	80-120	0	15		

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 622557	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003

METHOD BLANK: 2868954 Matrix: Water

Associated Lab Samples: 50288037001, 50288037002, 50288037003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/01/21 20:07	

LABORATORY CONTROL SAMPLE: 2868955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868956 2868957

Parameter	Units	2868956		2868957		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50288037002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.0	5.1	100	102	75-125	2	20

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 622809

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037004, 50288037005

METHOD BLANK: 2869974

Matrix: Water

Associated Lab Samples: 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/01/21 09:09	

LABORATORY CONTROL SAMPLE: 2869975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869976 2869977

Parameter	Units	50288066005		2869976		2869977		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	5	5	4.8	4.8	96	96	75-125	0	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	622383	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2868384 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	06/01/21 08:28	
Barium	ug/L	ND	10.0	06/01/21 08:28	
Boron	ug/L	ND	100	06/01/21 08:28	
Cadmium	ug/L	ND	2.0	06/01/21 08:28	
Calcium	ug/L	ND	1000	06/01/21 08:28	
Chromium	ug/L	ND	10.0	06/01/21 08:28	
Iron	ug/L	ND	100	06/01/21 08:28	
Lead	ug/L	ND	10.0	06/01/21 08:28	
Lithium	ug/L	ND	20.0	06/01/21 08:28	
Magnesium	ug/L	ND	1000	06/01/21 08:28	
Manganese	ug/L	ND	10.0	06/01/21 08:28	
Molybdenum	ug/L	ND	10.0	06/01/21 08:28	
Potassium	ug/L	ND	1000	06/01/21 08:28	
Silica	ug/L	ND	450	06/01/21 08:28	N2
Sodium	ug/L	ND	1000	06/01/21 08:28	

LABORATORY CONTROL SAMPLE: 2868385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9620	96	80-120	
Barium	ug/L	1000	972	97	80-120	
Boron	ug/L	1000	1010	101	80-120	
Cadmium	ug/L	1000	979	98	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	962	96	80-120	
Iron	ug/L	10000	9790	98	80-120	
Lead	ug/L	1000	989	99	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9760	98	80-120	
Manganese	ug/L	1000	988	99	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	9770	98	80-120	
Silica	ug/L	10700	10300	96		N2
Sodium	ug/L	10000	9610	96	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868386 2868387												
Parameter	Units	50288037002		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Aluminum	ug/L	ND	10000	10000	9690	10000	97	100	75-125	3	20	
Barium	ug/L	42.4	1000	1000	1010	1040	97	100	75-125	3	20	
Boron	ug/L	ND	1000	1000	1080	1120	102	107	75-125	4	20	
Cadmium	ug/L	ND	1000	1000	986	1020	99	102	75-125	3	20	
Calcium	ug/L	103000	10000	10000	107000	111000	38	83	75-125	4	20	P6
Chromium	ug/L	ND	1000	1000	965	989	97	99	75-125	2	20	
Iron	ug/L	ND	10000	10000	9580	9910	95	99	75-125	3	20	
Lead	ug/L	ND	1000	1000	962	988	96	99	75-125	3	20	
Lithium	ug/L	ND	1000	1000	1050	1080	104	107	75-125	4	20	
Magnesium	ug/L	32900	10000	10000	40700	42600	78	97	75-125	5	20	
Manganese	ug/L	ND	1000	1000	958	989	96	99	75-125	3	20	
Molybdenum	ug/L	ND	1000	1000	1030	1060	103	106	75-125	3	20	
Potassium	ug/L	1910	10000	10000	11800	12200	99	103	75-125	3	20	
Silica	ug/L	17800	10700	10700	27300	28400	88	99		4		N2
Sodium	ug/L	17000	10000	10000	25800	26900	88	99	75-125	4	20	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	622373	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004

METHOD BLANK: 2868351 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/28/21 22:37	
Molybdenum, Dissolved	ug/L	ND	10.0	05/28/21 22:37	

LABORATORY CONTROL SAMPLE: 2868352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	989	99	80-120	
Molybdenum, Dissolved	ug/L	1000	1070	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868353 2868354

Parameter	Units	50288037002 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	ND	1000	1000	975	952	97	95	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1070	1050	107	105	75-125	2	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	623104	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2871170 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/28/21 20:02	
Arsenic	ug/L	ND	1.0	05/28/21 20:02	
Beryllium	ug/L	ND	0.20	05/28/21 20:02	
Cobalt	ug/L	ND	1.0	05/28/21 20:02	
Selenium	ug/L	ND	1.0	05/28/21 20:02	
Thallium	ug/L	ND	1.0	05/28/21 20:02	

LABORATORY CONTROL SAMPLE: 2871171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.1	103	80-120	
Arsenic	ug/L	40	39.4	98	80-120	
Beryllium	ug/L	40	38.9	97	80-120	
Cobalt	ug/L	40	40.9	102	80-120	
Selenium	ug/L	40	36.9	92	80-120	
Thallium	ug/L	40	40.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871172 2871173

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.9	42.1	104	105	75-125	1	20
Arsenic	ug/L	ND	40	40	38.7	38.5	96	96	75-125	1	20
Beryllium	ug/L	ND	40	40	38.7	38.7	97	97	75-125	0	20
Cobalt	ug/L	ND	40	40	38.0	38.1	95	95	75-125	0	20
Selenium	ug/L	ND	40	40	40.0	38.7	100	96	75-125	3	20
Thallium	ug/L	ND	40	40	40.9	41.3	102	103	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	623842	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2874662 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	06/01/21 12:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	06/01/21 12:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	06/01/21 12:39	

LABORATORY CONTROL SAMPLE: 2874663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	90-110	

SAMPLE DUPLICATE: 2874664

Parameter	Units	50288037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	387	388	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	387	388	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2874665

Parameter	Units	50288037002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	301	307	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	301	307	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3  
Pace Project No.: 50288037

QC Batch: 622630 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2869133 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/25/21 10:59	

LABORATORY CONTROL SAMPLE: 2869134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	264	88	80-120	

SAMPLE DUPLICATE: 2869135

Parameter	Units	50288037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	480	490	2	10	

SAMPLE DUPLICATE: 2869136

Parameter	Units	50288037002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	447	453	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

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QC Batch:	623402	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: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

SAMPLE DUPLICATE: 2872647

Parameter	Units	50287997003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	2	H3

SAMPLE DUPLICATE: 2872648

Parameter	Units	50288037002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.5	1	2	H3

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 622001 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: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2866623 Matrix: Water  
 Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/21/21 09:23	

LABORATORY CONTROL SAMPLE: 2866624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866625 2866626

Parameter	Units	50288037002 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	0.52	97	103	90-110	6	20	

MATRIX SPIKE SAMPLE: 2866627

Parameter	Units	50287963001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.49	95	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 622594 Analysis Method: HACH 8146  
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2869009 Matrix: Water

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:37	H3,N2

LABORATORY CONTROL SAMPLE: 2869010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	104	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869011 2869012

Parameter	Units	50288037002		2869012		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	102	101	90-110	1	20	H3,N2

MATRIX SPIKE SAMPLE: 2869013

Parameter	Units	50287762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.1	106	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	621985	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: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2866591 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/21/21 08:09	
Nitrogen, Nitrite	mg/L	ND	0.10	05/21/21 08:09	

LABORATORY CONTROL SAMPLE: 2866592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	105	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866593 2866594

Parameter	Units	50288037002 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	1.4	1	1	2.5	2.5	105	108	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	0.99	1.0	99	100	90-110	2	20	

MATRIX SPIKE SAMPLE: 2866595

Parameter	Units	50288053004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.20	1	1.2	104	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.98	97	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	623607	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: 50288037001, 50288037002, 50288037003, 50288037004

METHOD BLANK: 2873798 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/30/21 08:10	

LABORATORY CONTROL SAMPLE: 2873799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873800 2873801

Parameter	Units	50288037002		2873801		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		1.6	1.6				1		

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 623609	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: 50288037005

METHOD BLANK: 2873807 Matrix: Water

Associated Lab Samples: 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/30/21 08:20	

LABORATORY CONTROL SAMPLE: 2873808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873809 2873810

Parameter	Units	50288079001		2873809		2873810		% 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	9.3		10.9	11.3				4		

MATRIX SPIKE SAMPLE: 2873811

Parameter	Units	50288121001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6	3.4			

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**QUALITY CONTROL DATA**

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch:	623941	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

METHOD BLANK: 2874978 Matrix: Water  
Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/01/21 17:19	

LABORATORY CONTROL SAMPLE: 2874979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874980 2874981

Parameter	Units	50288037002 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	8.8	8.9	88	89	80-120	0	20	

MATRIX SPIKE SAMPLE: 2874982

Parameter	Units	50288067007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<0.50	10	9.9	98	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 623646 Analysis Method: SM 5310C  
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004

METHOD BLANK: 2873947 Matrix: Water  
 Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/29/21 19:02	

LABORATORY CONTROL SAMPLE: 2873948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873949 2873950

Parameter	Units	50288037002		2873950		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	8.9	8.8	89	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873951 2873952

Parameter	Units	50288202001		2873952		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	193	400	400	550	553	89	90	80-120	1	20	

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: MW-13S**      **Lab ID: 50288037001**      Collected: 05/20/21 11:25      Received: 05/20/21 16:35      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	<b>0.178 ± 0.654 (1.26)</b> <b>C:NA T:96%</b>	pCi/L	06/25/21 14:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.441 ± 0.436 (0.893)</b> <b>C:72% T:96%</b>	pCi/L	06/24/21 17:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.619 ± 1.09 (2.15)</b>	pCi/L	06/25/21 17:03	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: MW-131**      **Lab ID: 50288037002**      Collected: 05/20/21 12:45      Received: 05/20/21 16:35      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	<b>0.000 ± 0.490 (1.02)</b> <b>C:NA T:89%</b>	pCi/L	06/25/21 14:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>-0.0470 ± 0.416 (0.986)</b> <b>C:72% T:91%</b>	pCi/L	06/24/21 17:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.906 (2.01)</b>	pCi/L	06/25/21 17:03	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: MW-13D**      **Lab ID: 50288037003**      Collected: 05/20/21 14:25      Received: 05/20/21 16:35      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	<b>0.353 ± 0.600 (1.06)</b> <b>C:NA T:89%</b>	pCi/L	06/25/21 14:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.427 ± 0.510 (1.08)</b> <b>C:79% T:92%</b>	pCi/L	06/24/21 17:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.780 ± 1.11 (2.14)</b>	pCi/L	06/25/21 17:03	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: DUP 3**      **Lab ID: 50288037004**      Collected: 05/20/21 08:00      Received: 05/20/21 16:35      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	<b>0.286 ± 0.561 (1.02)</b> <b>C:NA T:94%</b>	pCi/L	06/25/21 14:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.596 ± 0.591 (1.22)</b> <b>C:69% T:94%</b>	pCi/L	06/24/21 18:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.882 ± 1.15 (2.24)</b>	pCi/L	06/25/21 17:03	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: FIELD BLANK 3**      **Lab ID: 50288037005**      Collected: 05/20/21 14:50      Received: 05/20/21 16:35      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	<b>0.419 ± 0.638 (1.10)</b> <b>C:NA T:96%</b>	pCi/L	06/25/21 14:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.0437 ± 0.489 (1.13)</b> <b>C:69% T:88%</b>	pCi/L	06/24/21 17:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.463 ± 1.13 (2.23)</b>	pCi/L	06/25/21 17:03	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

**Sample: MW-13I MS**      **Lab ID: 50288037006**      Collected: 05/20/21 12:45      Received: 05/20/21 16:35      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	<b>91.69 %REC ± NA (NA)</b> <b>C:NA T:NA%</b>	pCi/L	06/25/21 14:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>107.88 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/24/21 18:06	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>107.74 %REC 16.09 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA%</b>	pCi/L	06/25/21 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>123.13 %REC 13.20 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/24/21 14:21	15262-20-1	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

QC Batch: 451475

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: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005, 50288037006, 50288037007

METHOD BLANK: 2178886

Matrix: Water

Associated Lab Samples: 50288037001, 50288037002, 50288037003, 50288037004, 50288037005, 50288037006, 50288037007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.305 ± 0.518 (0.915) C:NA T:93%	pCi/L	06/25/21 14:38	

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## QUALIFIERS

Project: Eagle Valley Prof 1 Report 3  
Pace Project No.: 50288037

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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.

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: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50288037001	MW-13S	EPA 9056	624123		
50288037002	MW-13I	EPA 9056	624123		
50288037003	MW-13D	EPA 9056	624123		
50288037004	DUP 3	EPA 9056	624123		
50288037005	FIELD BLANK 3	EPA 9056	624123		
50288037001	MW-13S	EPA 3010	622383	EPA 6010	623819
50288037002	MW-13I	EPA 3010	622383	EPA 6010	623819
50288037003	MW-13D	EPA 3010	622383	EPA 6010	623819
50288037004	DUP 3	EPA 3010	622383	EPA 6010	623819
50288037005	FIELD BLANK 3	EPA 3010	622383	EPA 6010	623819
50288037001	MW-13S	EPA 3010	622373	EPA 6010	623593
50288037002	MW-13I	EPA 3010	622373	EPA 6010	623593
50288037003	MW-13D	EPA 3010	622373	EPA 6010	623593
50288037004	DUP 3	EPA 3010	622373	EPA 6010	623593
50288037001	MW-13S	EPA 200.2	623104	EPA 6020	623357
50288037002	MW-13I	EPA 200.2	623104	EPA 6020	623357
50288037003	MW-13D	EPA 200.2	623104	EPA 6020	623357
50288037004	DUP 3	EPA 200.2	623104	EPA 6020	623357
50288037005	FIELD BLANK 3	EPA 200.2	623104	EPA 6020	623357
50288037001	MW-13S	EPA 7470	622557	EPA 7470	624004
50288037002	MW-13I	EPA 7470	622557	EPA 7470	624004
50288037003	MW-13D	EPA 7470	622557	EPA 7470	624004
50288037004	DUP 3	EPA 7470	622809	EPA 7470	623822
50288037005	FIELD BLANK 3	EPA 7470	622809	EPA 7470	623822
50288037001	MW-13S	EPA 903.1	451475		
50288037002	MW-13I	EPA 903.1	451475		
50288037003	MW-13D	EPA 903.1	451475		
50288037004	DUP 3	EPA 903.1	451475		
50288037005	FIELD BLANK 3	EPA 903.1	451475		
50288037006	MW-13I MS	EPA 903.1	451475		
50288037007	MW-13I MSD	EPA 903.1	451475		
50288037001	MW-13S	EPA 904.0	451476		
50288037002	MW-13I	EPA 904.0	451476		
50288037003	MW-13D	EPA 904.0	451476		
50288037004	DUP 3	EPA 904.0	451476		
50288037005	FIELD BLANK 3	EPA 904.0	451476		
50288037006	MW-13I MS	EPA 904.0	451476		
50288037007	MW-13I MSD	EPA 904.0	451476		
50288037001	MW-13S	Total Radium Calculation	454144		
50288037002	MW-13I	Total Radium Calculation	454144		
50288037003	MW-13D	Total Radium Calculation	454144		
50288037004	DUP 3	Total Radium Calculation	454144		
50288037005	FIELD BLANK 3	Total Radium Calculation	454144		
50288037001	MW-13S	SM 2320B	623842		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Prof 1 Report 3

Pace Project No.: 50288037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50288037002	MW-13I	SM 2320B	623842		
50288037003	MW-13D	SM 2320B	623842		
50288037004	DUP 3	SM 2320B	623842		
50288037005	FIELD BLANK 3	SM 2320B	623842		
50288037001	MW-13S	SM 2540C	622630		
50288037002	MW-13I	SM 2540C	622630		
50288037003	MW-13D	SM 2540C	622630		
50288037004	DUP 3	SM 2540C	622630		
50288037005	FIELD BLANK 3	SM 2540C	622630		
50288037001	MW-13S	SM 4500-H+B	623402		
50288037002	MW-13I	SM 4500-H+B	623402		
50288037003	MW-13D	SM 4500-H+B	623402		
50288037004	DUP 3	SM 4500-H+B	623402		
50288037005	FIELD BLANK 3	SM 4500-H+B	623402		
50288037001	MW-13S	SM 4500-S2-D	622001		
50288037002	MW-13I	SM 4500-S2-D	622001		
50288037003	MW-13D	SM 4500-S2-D	622001		
50288037004	DUP 3	SM 4500-S2-D	622001		
50288037005	FIELD BLANK 3	SM 4500-S2-D	622001		
50288037001	MW-13S	HACH 8146	622594		
50288037002	MW-13I	HACH 8146	622594		
50288037003	MW-13D	HACH 8146	622594		
50288037004	DUP 3	HACH 8146	622594		
50288037005	FIELD BLANK 3	HACH 8146	622594		
50288037001	MW-13S	EPA 353.2	621985		
50288037002	MW-13I	EPA 353.2	621985		
50288037003	MW-13D	EPA 353.2	621985		
50288037004	DUP 3	EPA 353.2	621985		
50288037005	FIELD BLANK 3	EPA 353.2	621985		
50288037001	MW-13S	EPA 365.1	623607	EPA 365.1	623674
50288037002	MW-13I	EPA 365.1	623607	EPA 365.1	623674
50288037003	MW-13D	EPA 365.1	623607	EPA 365.1	623674
50288037004	DUP 3	EPA 365.1	623607	EPA 365.1	623674
50288037005	FIELD BLANK 3	EPA 365.1	623609	EPA 365.1	623675
50288037001	MW-13S	SM 5310C	623941		
50288037002	MW-13I	SM 5310C	623941		
50288037003	MW-13D	SM 5310C	623941		
50288037004	DUP 3	SM 5310C	623941		
50288037005	FIELD BLANK 3	SM 5310C	623941		
50288037001	MW-13S	SM 5310C	623646		
50288037002	MW-13I	SM 5310C	623646		
50288037003	MW-13D	SM 5310C	623646		
50288037004	DUP 3	SM 5310C	623646		

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July 27, 2021

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

RE: Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288121

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 21, 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: Eagle Valley Profile1 Report1  
Pace Project No.: 50288121

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### **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

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### **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: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50288121001	MW-4S	Water	05/21/21 11:20	05/21/21 13:00
50288121002	MW-10S	Water	05/21/21 10:20	05/21/21 13:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50288121001	MW-4S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	JDG	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	DMT	6	PASI-I		
		EPA 7470	ILP	1	PASI-I		
		EPA 903.1	MK1	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	SWJ	1	PASI-I		
		SM 4500-S2-D	SWJ	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		
		50288121002	MW-10S	EPA 9056	HBS	3	PASI-I
				EPA 6010	JDG	15	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	DMT			6	PASI-I		
EPA 7470	ILP			1	PASI-I		
EPA 903.1	MK1			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	SWJ			1	PASI-I		
SM 4500-S2-D	SWJ			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		

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50288121001</b>	<b>MW-4S</b>					
EPA 9056	Chloride	145	mg/L	25.0	06/03/21 22:26	
EPA 9056	Fluoride	0.33	mg/L	0.10	06/03/21 22:10	
EPA 9056	Sulfate	306	mg/L	25.0	06/03/21 22:26	
EPA 6010	Barium	77.9	ug/L	10.0	05/28/21 11:30	
EPA 6010	Boron	1060	ug/L	100	05/28/21 11:30	
EPA 6010	Calcium	133000	ug/L	1000	05/28/21 11:30	
EPA 6010	Lithium	51.3	ug/L	20.0	05/28/21 11:30	
EPA 6010	Magnesium	30900	ug/L	1000	05/28/21 11:30	
EPA 6010	Molybdenum	60.1	ug/L	10.0	05/28/21 11:30	
EPA 6010	Potassium	10500	ug/L	1000	05/28/21 11:30	
EPA 6010	Silica	16500	ug/L	450	05/28/21 11:30	N2
EPA 6010	Sodium	108000	ug/L	1000	05/28/21 11:30	
EPA 6010	Molybdenum, Dissolved	59.2	ug/L	10.0	06/01/21 23:50	
EPA 6020	Arsenic	5.1	ug/L	1.0	06/02/21 04:36	
EPA 6020	Selenium	1.3	ug/L	1.0	06/02/21 04:36	
EPA 903.1	Radium-226	0.125 ± 0.347 (0.673)	pCi/L		06/24/21 15:23	
EPA 904.0	Radium-228	0.363 ± 0.627 (1.37)	pCi/L		06/23/21 17:42	
		C:NA T:89%				
		C:58%				
		T:80%				
Total Radium Calculation	Total Radium	0.488 ± 0.974 (2.04)	pCi/L		06/25/21 07:59	
SM 2320B	Alkalinity, Total as CaCO3	205	mg/L	2.0	06/01/21 14:14	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	205	mg/L	2.0	06/01/21 14:14	
SM 2540C	Total Dissolved Solids	858	mg/L	20.0	05/25/21 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	06/02/21 11:56	H3
EPA 353.2	Nitrogen, Nitrate	1.5	mg/L	0.10	05/21/21 14:26	
EPA 365.1	Phosphate as P04	1.6	mg/L	0.15	05/30/21 08:34	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	05/29/21 23:50	
<b>50288121002</b>	<b>MW-10S</b>					
EPA 9056	Chloride	116	mg/L	25.0	06/03/21 22:59	
EPA 9056	Fluoride	0.22	mg/L	0.10	06/03/21 22:43	
EPA 9056	Sulfate	395	mg/L	25.0	06/03/21 22:59	
EPA 6010	Barium	73.7	ug/L	10.0	05/28/21 11:37	
EPA 6010	Boron	5970	ug/L	100	05/28/21 11:37	
EPA 6010	Calcium	176000	ug/L	1000	05/28/21 11:37	
EPA 6010	Lithium	96.6	ug/L	20.0	05/28/21 11:37	
EPA 6010	Magnesium	40700	ug/L	1000	05/28/21 11:37	
EPA 6010	Manganese	94.4	ug/L	10.0	05/28/21 11:37	
EPA 6010	Molybdenum	91.8	ug/L	10.0	05/28/21 11:37	
EPA 6010	Potassium	10800	ug/L	1000	05/28/21 11:37	
EPA 6010	Silica	11800	ug/L	450	05/28/21 11:37	N2
EPA 6010	Sodium	101000	ug/L	1000	05/28/21 11:37	
EPA 6010	Manganese, Dissolved	95.0	ug/L	10.0	06/01/21 23:53	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50288121002</b>	<b>MW-10S</b>					
EPA 6010	Molybdenum, Dissolved	94.8	ug/L	10.0	06/01/21 23:53	
EPA 6020	Antimony	2.2	ug/L	1.0	06/02/21 04:41	
EPA 6020	Selenium	1.1	ug/L	1.0	06/02/21 04:41	
EPA 903.1	Radium-226	-0.146 ± 0.350 (0.874)	pCi/L		06/24/21 15:33	
EPA 904.0	Radium-228	-0.380 ± 0.498 (1.25) C:65% T:86%	pCi/L		06/23/21 17:42	
Total Radium Calculation	Total Radium	0.000 ± 0.848 (2.12)	pCi/L		06/25/21 07:59	
SM 2320B	Alkalinity, Total as CaCO3	293	mg/L	2.0	06/01/21 14:14	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	293	mg/L	2.0	06/01/21 14:14	
SM 2540C	Total Dissolved Solids	1030	mg/L	20.0	05/25/21 13:34	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/02/21 12:00	H3
EPA 353.2	Nitrogen, Nitrate	0.23	mg/L	0.10	05/21/21 14:21	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288121

Sample: MW-4S	Lab ID: 50288121001	Collected: 05/21/21 11:20	Received: 05/21/21 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	145	mg/L	25.0	100		06/03/21 22:26	16887-00-6	
Fluoride	0.33	mg/L	0.10	1		06/03/21 22:10	16984-48-8	
Sulfate	306	mg/L	25.0	100		06/03/21 22:26	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/26/21 13:59	05/28/21 11:30	7429-90-5	
Barium	77.9	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:30	7440-39-3	
Boron	1060	ug/L	100	1	05/26/21 13:59	05/28/21 11:30	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/26/21 13:59	05/28/21 11:30	7440-43-9	
Calcium	133000	ug/L	1000	1	05/26/21 13:59	05/28/21 11:30	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:30	7440-47-3	
Iron	ND	ug/L	100	1	05/26/21 13:59	05/28/21 11:30	7439-89-6	
Lead	ND	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:30	7439-92-1	
Lithium	51.3	ug/L	20.0	1	05/26/21 13:59	05/28/21 11:30	7439-93-2	
Magnesium	30900	ug/L	1000	1	05/26/21 13:59	05/28/21 11:30	7439-95-4	
Manganese	ND	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:30	7439-96-5	
Molybdenum	60.1	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:30	7439-98-7	
Potassium	10500	ug/L	1000	1	05/26/21 13:59	05/28/21 11:30	7440-09-7	
Silica	16500	ug/L	450	1	05/26/21 13:59	05/28/21 11:30	7631-86-9	N2
Sodium	108000	ug/L	1000	1	05/26/21 13:59	05/28/21 11:30	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	ND	ug/L	10.0	1	06/01/21 07:00	06/01/21 23:50	7439-96-5	
Molybdenum, Dissolved	59.2	ug/L	10.0	1	06/01/21 07:00	06/01/21 23:50	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:36	7440-36-0	
Arsenic	5.1	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:36	7440-38-2	
Beryllium	ND	ug/L	0.20	1	06/01/21 08:37	06/02/21 04:36	7440-41-7	
Cobalt	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:36	7440-48-4	
Selenium	1.3	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:36	7782-49-2	
Thallium	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:36	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/01/21 23:35	06/02/21 08:41	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	205	mg/L	2.0	1		06/01/21 14:14		
Alkalinity,Bicarbonate (CaCO3)	205	mg/L	2.0	1		06/01/21 14:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 14:14		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Sample: MW-4S	Lab ID: 50288121001	Collected: 05/21/21 11:20	Received: 05/21/21 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>858</b>	mg/L	20.0	1		05/25/21 13:33		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.7</b>	Std. Units	0.10	1		06/02/21 11:56		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/26/21 11:02	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:49		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>1.5</b>	mg/L	0.10	1		05/21/21 14:26	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 14:26	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	<b>1.6</b>	mg/L	0.15	1	05/29/21 12:37	05/30/21 08:34		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/02/21 02:21	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>1.9</b>	mg/L	1.0	1		05/29/21 23:50		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Sample: MW-10S	Lab ID: 50288121002	Collected: 05/21/21 10:20	Received: 05/21/21 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	116	mg/L	25.0	100		06/03/21 22:59	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		06/03/21 22:43	16984-48-8	
Sulfate	395	mg/L	25.0	100		06/03/21 22:59	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/26/21 13:59	05/28/21 11:37	7429-90-5	
Barium	73.7	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:37	7440-39-3	
Boron	5970	ug/L	100	1	05/26/21 13:59	05/28/21 11:37	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/26/21 13:59	05/28/21 11:37	7440-43-9	
Calcium	176000	ug/L	1000	1	05/26/21 13:59	05/28/21 11:37	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:37	7440-47-3	
Iron	ND	ug/L	100	1	05/26/21 13:59	05/28/21 11:37	7439-89-6	
Lead	ND	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:37	7439-92-1	
Lithium	96.6	ug/L	20.0	1	05/26/21 13:59	05/28/21 11:37	7439-93-2	
Magnesium	40700	ug/L	1000	1	05/26/21 13:59	05/28/21 11:37	7439-95-4	
Manganese	94.4	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:37	7439-96-5	
Molybdenum	91.8	ug/L	10.0	1	05/26/21 13:59	05/28/21 11:37	7439-98-7	
Potassium	10800	ug/L	1000	1	05/26/21 13:59	05/28/21 11:37	7440-09-7	
Silica	11800	ug/L	450	1	05/26/21 13:59	05/28/21 11:37	7631-86-9	N2
Sodium	101000	ug/L	1000	1	05/26/21 13:59	05/28/21 11:37	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	95.0	ug/L	10.0	1	06/01/21 07:00	06/01/21 23:53	7439-96-5	
Molybdenum, Dissolved	94.8	ug/L	10.0	1	06/01/21 07:00	06/01/21 23:53	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	2.2	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:41	7440-36-0	
Arsenic	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:41	7440-38-2	
Beryllium	ND	ug/L	0.20	1	06/01/21 08:37	06/02/21 04:41	7440-41-7	
Cobalt	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:41	7440-48-4	
Selenium	1.1	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:41	7782-49-2	
Thallium	ND	ug/L	1.0	1	06/01/21 08:37	06/02/21 04:41	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/01/21 23:35	06/02/21 08:43	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	293	mg/L	2.0	1		06/01/21 14:14		
Alkalinity,Bicarbonate (CaCO3)	293	mg/L	2.0	1		06/01/21 14:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/01/21 14:14		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

Sample: MW-10S	Lab ID: 50288121002	Collected: 05/21/21 10:20	Received: 05/21/21 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>1030</b>	mg/L	20.0	1		05/25/21 13:34		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.6</b>	Std. Units	0.10	1		06/02/21 12:00		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/26/21 11:02	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/25/21 12:49		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>0.23</b>	mg/L	0.10	1		05/21/21 14:21	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 14:21	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	05/29/21 12:37	05/30/21 08:36		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/02/21 02:32	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		05/30/21 00:01		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 624368

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2876630

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/03/21 12:27	
Fluoride	mg/L	ND	0.10	06/03/21 12:27	
Sulfate	mg/L	ND	0.25	06/03/21 12:27	

LABORATORY CONTROL SAMPLE: 2876631

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	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2876632 2876633

Parameter	Units	50288113003		2876632		2876633		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	12.1	12.5	12.5	24.7	24.7	101	101	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.50	0.50	91	91	80-120	0	15		
Sulfate	mg/L	33.2	25	25	58.0	57.8	99	99	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: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622810

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2869978

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/02/21 07:59	

LABORATORY CONTROL SAMPLE: 2869979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869980 2869981

Parameter	Units	2869980		2869981		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50288388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.0	5.0	101	101	75-125	0	20

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622507

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2868826

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	05/28/21 10:30	
Barium	ug/L	ND	10.0	05/28/21 10:30	
Boron	ug/L	ND	100	05/28/21 10:30	
Cadmium	ug/L	ND	2.0	05/28/21 10:30	
Calcium	ug/L	ND	1000	05/28/21 10:30	
Chromium	ug/L	ND	10.0	05/28/21 10:30	
Iron	ug/L	ND	100	05/28/21 10:30	
Lead	ug/L	ND	10.0	05/28/21 10:30	
Lithium	ug/L	ND	20.0	05/28/21 10:30	
Magnesium	ug/L	ND	1000	05/28/21 10:30	
Manganese	ug/L	ND	10.0	05/28/21 10:30	
Molybdenum	ug/L	ND	10.0	05/28/21 10:30	
Potassium	ug/L	ND	1000	05/28/21 10:30	
Silica	ug/L	ND	450	05/28/21 10:30	N2
Sodium	ug/L	ND	1000	05/28/21 10:30	

LABORATORY CONTROL SAMPLE: 2868827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9700	97	80-120	
Barium	ug/L	1000	972	97	80-120	
Boron	ug/L	1000	1000	100	80-120	
Cadmium	ug/L	1000	975	98	80-120	
Calcium	ug/L	10000	9860	99	80-120	
Chromium	ug/L	1000	986	99	80-120	
Iron	ug/L	10000	9620	96	80-120	
Lead	ug/L	1000	957	96	80-120	
Lithium	ug/L	1000	1040	104	80-120	
Magnesium	ug/L	10000	9700	97	80-120	
Manganese	ug/L	1000	946	95	80-120	
Molybdenum	ug/L	1000	1050	105	80-120	
Potassium	ug/L	10000	9710	97	80-120	
Silica	ug/L	10700	10400	97		N2
Sodium	ug/L	10000	9930	99	80-120	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868828 2868829														
Parameter	Units	50288052005		MS	MSD	2868829		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Aluminum	ug/L	11600	10000	10000	27600	27800	161	163	75-125	1	20	M3		
Barium	ug/L	137	1000	1000	1120	1100	98	96	75-125	2	20			
Boron	ug/L	ND	1000	1000	1060	1040	101	98	75-125	2	20			
Cadmium	ug/L	ND	1000	1000	980	959	98	96	75-125	2	20			
Calcium	ug/L	26000	10000	10000	35000	34600	90	86	75-125	1	20			
Chromium	ug/L	16.0	1000	1000	994	971	98	96	75-125	2	20			
Iron	ug/L	20700	10000	10000	29700	28900	90	82	75-125	3	20			
Lead	ug/L	30.5	1000	1000	971	948	94	92	75-125	2	20			
Lithium	ug/L	ND	1000	1000	1080	1050	107	104	75-125	3	20			
Magnesium	ug/L	21800	10000	10000	31300	31000	95	91	75-125	1	20			
Manganese	ug/L	969	1000	1000	1880	1840	91	87	75-125	2	20			
Molybdenum	ug/L	36.4	1000	1000	1080	1050	104	102	75-125	2	20			
Potassium	ug/L	8100	10000	10000	19700	19500	116	114	75-125	1	20			
Silica	ug/L	64100	10700	10700	97100	87200	309	216		11		N2		
Sodium	ug/L	23900	10000	10000	33400	32700	96	89	75-125	2	20			

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622539

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2868900

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	06/01/21 23:48	
Molybdenum, Dissolved	ug/L	ND	10.0	06/01/21 23:48	

LABORATORY CONTROL SAMPLE: 2868901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	994	99	80-120	
Molybdenum, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868902 2868903

Parameter	Units	50288149008 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	8100	1000	1000	8690	8840	59	73	75-125	2	20	P6
Molybdenum, Dissolved	ug/L	ND	1000	1000	1060	1070	106	107	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288121

QC Batch: 623702	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2874355 Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	06/02/21 04:27	
Arsenic	ug/L	ND	1.0	06/02/21 04:27	
Beryllium	ug/L	ND	0.20	06/02/21 04:27	
Cobalt	ug/L	ND	1.0	06/02/21 04:27	
Selenium	ug/L	ND	1.0	06/02/21 04:27	
Thallium	ug/L	ND	1.0	06/02/21 04:27	

LABORATORY CONTROL SAMPLE: 2874356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.6	106	80-120	
Arsenic	ug/L	40	38.8	97	80-120	
Beryllium	ug/L	40	41.1	103	80-120	
Cobalt	ug/L	40	41.4	103	80-120	
Selenium	ug/L	40	40.6	101	80-120	
Thallium	ug/L	40	40.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874357 2874358

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50288177001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	44.6	44.5	111	111	75-125	0	20
Arsenic	ug/L	1.8	40	40	41.1	41.4	98	99	75-125	1	20
Beryllium	ug/L	ND	40	40	41.9	41.9	105	105	75-125	0	20
Cobalt	ug/L	116	40	40	153	153	94	94	75-125	0	20
Selenium	ug/L	ND	40	40	40.8	42.1	101	104	75-125	3	20
Thallium	ug/L	ND	40	40	42.2	42.5	105	106	75-125	1	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 623845	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2874666 Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	06/01/21 14:14	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	06/01/21 14:14	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	06/01/21 14:14	

LABORATORY CONTROL SAMPLE: 2874667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	90-110	

SAMPLE DUPLICATE: 2874668

Parameter	Units	50288082002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	355	349	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	355	349	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2874669

Parameter	Units	50288082003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	316	320	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	316	320	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622631	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2869142 Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/25/21 13:28	

LABORATORY CONTROL SAMPLE: 2869143

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

SAMPLE DUPLICATE: 2869144

Parameter	Units	50288178008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	401	407	1	10	

SAMPLE DUPLICATE: 2869145

Parameter	Units	50288178011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	479	496	3	10	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 624053

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: 50288121001, 50288121002

SAMPLE DUPLICATE: 2875427

Parameter	Units	50288061001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	1	2	H3

SAMPLE DUPLICATE: 2875428

Parameter	Units	50288121001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.6	1	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622845

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: 50288121001, 50288121002

METHOD BLANK: 2870068

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/26/21 11:02	

LABORATORY CONTROL SAMPLE: 2870069

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: 2870070 2870071

Parameter	Units	50288202001		2870071		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.5	.085J	.084J	13	13	90-110	20	M3

MATRIX SPIKE SAMPLE: 2870072

Parameter	Units	50288273004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.51	99	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622595

Analysis Method: HACH 8146

QC Batch Method: HACH 8146

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2869014

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/25/21 12:49	H3,N2

LABORATORY CONTROL SAMPLE: 2869015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.1	105	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869016 2869017

Parameter	Units	2869016		2869017		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50288121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	109	105	90-110	3	20	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 622113	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: 50288121001, 50288121002

METHOD BLANK: 2867203 Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/21/21 14:17	
Nitrogen, Nitrite	mg/L	ND	0.10	05/21/21 14:17	

LABORATORY CONTROL SAMPLE: 2867204

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	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2867205 2867206

Parameter	Units	50288121002 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	0.23	1	1	1.3	1.3	108	108	90-110	0	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	101	102	90-110	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 623609

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: 50288121001, 50288121002

METHOD BLANK: 2873807

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	05/30/21 08:20	

LABORATORY CONTROL SAMPLE: 2873808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873809 2873810

Parameter	Units	50288079001		2873810		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Phosphate as P04	mg/L	9.3		10.9	11.3				4		

MATRIX SPIKE SAMPLE: 2873811

Parameter	Units	50288121001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6	3.4			

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 623942

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2874984

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/01/21 22:44	

LABORATORY CONTROL SAMPLE: 2874985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874986 2874987

Parameter	Units	50288096003		2874986		2874987		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Total Organic Carbon	mg/L	ND	10	10	9.3	9.4	93	94	80-120	0	20

MATRIX SPIKE SAMPLE: 2874988

Parameter	Units	50288121002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	9.6	96	80-120	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 623646

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288121001, 50288121002

METHOD BLANK: 2873947

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	05/29/21 19:02	

LABORATORY CONTROL SAMPLE: 2873948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873949 2873950

Parameter	Units	50288037002		2873950		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	8.9	8.8	89	88	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873951 2873952

Parameter	Units	50288202001		2873952		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	193	400	400	550	553	89	90	80-120	1	20	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

**Sample: MW-4S**      **Lab ID: 50288121001**      Collected: 05/21/21 11:20      Received: 05/21/21 13:00      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	<b>0.125 ± 0.347 (0.673)</b> <b>C:NA T:89%</b>	pCi/L	06/24/21 15:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.363 ± 0.627 (1.37)</b> <b>C:58% T:80%</b>	pCi/L	06/23/21 17:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.488 ± 0.974 (2.04)</b>	pCi/L	06/25/21 07:59	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

**Sample: MW-10S**      **Lab ID: 50288121002**      Collected: 05/21/21 10:20      Received: 05/21/21 13:00      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	<b>-0.146 ± 0.350 (0.874)</b> <b>C:NA T:87%</b>	pCi/L	06/24/21 15:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>-0.380 ± 0.498 (1.25)</b> <b>C:65% T:86%</b>	pCi/L	06/23/21 17:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.848 (2.12)</b>	pCi/L	06/25/21 07:59	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 451466

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: 50288121001, 50288121002

METHOD BLANK: 2178868

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0489 ± 0.346 (0.690) C:NA T:92%	pCi/L	06/24/21 14:52	

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: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

QC Batch: 451467

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: 50288121001, 50288121002

METHOD BLANK: 2178870

Matrix: Water

Associated Lab Samples: 50288121001, 50288121002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.149 ± 0.342 (0.762) C:64% T:85%	pCi/L	06/23/21 14:36	

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: Eagle Valley Profile1 Report1

Pace Project No.: 50288121

---

### 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.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50288121001	MW-4S	EPA 9056	624368		
50288121002	MW-10S	EPA 9056	624368		
50288121001	MW-4S	EPA 3010	622507	EPA 6010	623397
50288121002	MW-10S	EPA 3010	622507	EPA 6010	623397
50288121001	MW-4S	EPA 3010	622539	EPA 6010	624016
50288121002	MW-10S	EPA 3010	622539	EPA 6010	624016
50288121001	MW-4S	EPA 200.2	623702	EPA 6020	623927
50288121002	MW-10S	EPA 200.2	623702	EPA 6020	623927
50288121001	MW-4S	EPA 7470	622810	EPA 7470	624024
50288121002	MW-10S	EPA 7470	622810	EPA 7470	624024
50288121001	MW-4S	EPA 903.1	451466		
50288121002	MW-10S	EPA 903.1	451466		
50288121001	MW-4S	EPA 904.0	451467		
50288121002	MW-10S	EPA 904.0	451467		
50288121001	MW-4S	Total Radium Calculation	454032		
50288121002	MW-10S	Total Radium Calculation	454032		
50288121001	MW-4S	SM 2320B	623845		
50288121002	MW-10S	SM 2320B	623845		
50288121001	MW-4S	SM 2540C	622631		
50288121002	MW-10S	SM 2540C	622631		
50288121001	MW-4S	SM 4500-H+B	624053		
50288121002	MW-10S	SM 4500-H+B	624053		
50288121001	MW-4S	SM 4500-S2-D	622845		
50288121002	MW-10S	SM 4500-S2-D	622845		
50288121001	MW-4S	HACH 8146	622595		
50288121002	MW-10S	HACH 8146	622595		
50288121001	MW-4S	EPA 353.2	622113		
50288121002	MW-10S	EPA 353.2	622113		
50288121001	MW-4S	EPA 365.1	623609	EPA 365.1	623675
50288121002	MW-10S	EPA 365.1	623609	EPA 365.1	623675
50288121001	MW-4S	SM 5310C	623942		
50288121002	MW-10S	SM 5310C	623942		
50288121001	MW-4S	SM 5310C	623646		
50288121002	MW-10S	SM 5310C	623646		

**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 Indianapolis, IN 46256	Copy To:		Company Name:	
Email:	mark.breting@atcassociates.com	Purchase Order #:		Address:	
Phone:	NONE	Project Name:	Eagle Valley Profile 1 Report 1	Pace Quote:	
Requested Due Date:		Project #:		Pace Project Manager:	hayden.putti@pacelabs.com
				Pace Profile #:	6246 Line 23
				State / Location:	IN
				Regulatory Agency:	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION		DATE		TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	REQUESTED ANALYSIS: Filtered (Y/N)		TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
			START	END			DATE	TIME	DATE	TIME		DATE	TIME			Y	N							
13	Drinking Water	DW			WT																			
14	Waste Water	WW			WT																			
15	Waste Water Product	WP			WT																			
16	Soil/Solid	SL			WT																			
17	Oil	OL			WT																			
18	Wipe	WP			WT																			
19	Other	OR			WT																			
20	Ally	AL			WT																			
21	Other Tissue	OT			WT																			
22					WT																			
23					WT																			
24					WT																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	
	Andy Johnson	5-24	13:00	[Signature]	5-24	13:00	
* Metals: 6010 (Al, Ba, B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li, SiO2)							
6020 (Be, Co, As, Se, Sb, Ti), 7470 (Hg)							
** Dissolved FF 6010 (Mo, Mn)							
Alkalinity = (Total, Bicarb & Carb)							
SAMPLER NAME AND SIGNATURE		DATE SIGNED		DATE		TIME	
[Signature]		5-21-21		5-21-21		13:00	





**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: DAP 5/21/21 1325

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** ABCDEF

4. Cooler Temperature: 11.9/11.9 (Initial/Corrected)  
Temp should be above freezing to 6°C

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
<b>USDA Regulated Soils?</b> (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			/			
<b>Short Hold Time Analysis (48 hours or less)?</b> Analysis: <u>N/A</u>		/		/		
<b>Time 5035A TC placed in Freezer or Short Holds To Lab</b>	Time: <u>1345</u>			Present	Absent	N/A
<b>Rush TAT Requested (4 days or less):</b>			/			
Custody Signatures Present?		/		Present	Absent	No VOA Vials Sent
Containers Intact?:		/				
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		/				
Extra labels on Terracore Vials? (soils only)		/				
Trip Blank Present?			/			
Trip Blank Custody Seals?:			/			

COMMENTS:  
Only received pages 1 of 3 and 2 of 3. Did not receive page 3 of 3 / 05212149

Sample Container Count

COC PAGE 1 of 7

SBS  
DI  
BK  
Kit

Sample Line Item	WG FU	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												2		2	1	2	1	1	1	1	1	1			WT	✓	✓	
10																												
11																												
12																												

Container Codes

Glass		Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass
W8KU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass
W8FU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass
J8FU	4oz unpreserved amber wide	BG1U	1L unpreserved glass
C83H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass
BP3U	250mL unpreserved plastic	BG3U	250mL unpres Clear Glass
BP3S	250mL H2SO4 plastic	BP1A	1L NaOH, Asc Acid plastic
BP3Z	250mL NaOH, Zn Ac plastic	BP1N	1L HNO3 plastic
AF	Air Filter	BP1S	1L H2SO4 plastic
C	Air Cassettes	BP1U	1L unpreserved plastic
R	Terra core kit	BP1Z	1L NaOH, Zn, Ac
SP5T	120mL Coliform Na Thiosulfate	BP2A	500mL NaOH, Asc Acid plastic
U	Summa Can	BP2N	500mL HNO3 plastic
ZPLC	Ziploc Bag	BP2O	500mL NaOH plastic
WT	Water	BP2S	500mL H2SO4 plastic
SL	Solid	BP2U	500mL unpreserved plastic
NAL	Non-aqueous liquid	BP2Z	500mL NaOH, Zn Ac
WP	Wipe	BP3B	250mL NaOH plastic
		BP3N	250mL HNO3 plastic
		BP3F	250mL HNO3 plastic (field filtered)



SBS  
DI  
BK  
Kit

Sample Line Item	WG FU	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												2			2	1	2	1	1	1	1	1		WT	✓	✓		
9																												
10																												
11																												
12																												

Container Codes

Glass		Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass
W5KU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass
W5FU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass
W5FU	4oz unpreserved amber wide	BG1U	1L unpreserved glass
W53H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpres Clear Glass
		BP1A	1L NaOH, Asc Acid plastic
		BP1N	1L HNO3 plastic
		BP1S	1L H2SO4 plastic
		BP1U	1L unpreserved plastic
		BP1Z	1L NaOH, Zn, Ac
		BP2A	500mL NaOH, Asc Acid plastic
		BP2N	500mL HNO3 plastic
		BP2O	500mL NaOH plastic
		BP2S	500mL H2SO4 plastic
		BP2U	500mL unpreserved plastic
		BP2Z	500mL NaOH, Zn Ac
		BP3B	250mL NaOH plastic
		BP3N	250mL HNO3 plastic
		BP3F	250mL HNO3 plastic (field filtered)
		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: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 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: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
50288372001	MW-1S	Water	05/25/21 11:20	05/25/21 15:00
50288372002	MW-1I	Water	05/25/21 10:15	05/25/21 15:00
50288372003	MW-1D	Water	05/25/21 13:20	05/25/21 15:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50288372001	MW-1S	EPA 9056	HBS	3	PASI-I		
		EPA 6010	KJE	15	PASI-I		
		EPA 6010	JPK	2	PASI-I		
		EPA 6020	RAM	6	PASI-I		
		EPA 7470	ILP	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	SWJ	1	PASI-I		
		SM 4500-S2-D	SWJ	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		
		50288372002	MW-1I	EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JPK	2	PASI-I
EPA 6020	RAM			6	PASI-I		
EPA 7470	ILP			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	SWJ			1	PASI-I		
SM 4500-S2-D	SWJ			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		
50288372003	MW-1D			EPA 9056	HBS	3	PASI-I
				EPA 6010	KJE	15	PASI-I
				EPA 6010	JPK	2	PASI-I

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	RAM	6	PASI-I
		EPA 7470	ILP	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	SWJ	1	PASI-I
		SM 4500-S2-D	SWJ	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

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50288372001</b>	<b>MW-1S</b>					
EPA 9056	Chloride	37.3	mg/L	2.5	06/07/21 15:34	
EPA 9056	Sulfate	254	mg/L	25.0	06/05/21 01:31	
EPA 6010	Barium	69.9	ug/L	10.0	06/02/21 09:12	
EPA 6010	Boron	2800	ug/L	100	06/02/21 09:12	
EPA 6010	Calcium	209000	ug/L	2000	06/02/21 09:30	
EPA 6010	Iron	116	ug/L	100	06/02/21 09:12	
EPA 6010	Lithium	70.0	ug/L	20.0	06/02/21 09:12	
EPA 6010	Magnesium	45600	ug/L	1000	06/02/21 09:12	
EPA 6010	Manganese	11.1	ug/L	10.0	06/02/21 09:12	
EPA 6010	Molybdenum	19.1	ug/L	10.0	06/02/21 09:12	
EPA 6010	Potassium	6270	ug/L	1000	06/02/21 09:12	
EPA 6010	Silica	14100	ug/L	450	06/02/21 09:12	N2
EPA 6010	Sodium	32000	ug/L	1000	06/03/21 09:26	
EPA 6010	Molybdenum, Dissolved	17.2	ug/L	10.0	05/29/21 23:04	
EPA 6020	Antimony	1.9	ug/L	1.0	06/01/21 23:01	
EPA 6020	Arsenic	4.5	ug/L	1.0	06/01/21 23:01	
EPA 6020	Selenium	24.4	ug/L	1.0	06/01/21 23:01	
EPA 903.1	Radium-226	-0.0551 ± 0.286 (0.662)	pCi/L		06/28/21 17:53	
EPA 904.0	Radium-228	C:NA T:93% 0.594 ± 0.485 (0.976)	pCi/L		06/25/21 14:20	
		C:74% T:80%				
Total Radium Calculation	Total Radium	0.594 ± 0.771 (1.64)	pCi/L		06/28/21 20:23	
SM 2320B	Alkalinity, Total as CaCO3	488	mg/L	2.0	06/04/21 13:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	488	mg/L	2.0	06/04/21 13:23	
SM 2540C	Total Dissolved Solids	934	mg/L	20.0	05/27/21 11:13	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	06/02/21 13:39	H3
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.10	05/26/21 09:15	
<b>50288372002</b>	<b>MW-1I</b>					
EPA 9056	Chloride	89.0	mg/L	25.0	06/05/21 02:52	
EPA 9056	Fluoride	0.26	mg/L	0.10	06/05/21 01:47	
EPA 9056	Sulfate	117	mg/L	25.0	06/05/21 02:52	
EPA 6010	Barium	55.4	ug/L	10.0	06/02/21 09:14	
EPA 6010	Boron	1090	ug/L	100	06/02/21 09:14	
EPA 6010	Calcium	79100	ug/L	1000	06/02/21 09:14	
EPA 6010	Lithium	87.7	ug/L	20.0	06/02/21 09:14	
EPA 6010	Magnesium	26600	ug/L	1000	06/02/21 09:14	
EPA 6010	Manganese	246	ug/L	10.0	06/02/21 09:14	
EPA 6010	Molybdenum	97.5	ug/L	10.0	06/02/21 09:14	
EPA 6010	Potassium	7820	ug/L	1000	06/02/21 09:14	
EPA 6010	Silica	9650	ug/L	450	06/02/21 09:14	N2
EPA 6010	Sodium	73800	ug/L	1000	06/03/21 09:28	
EPA 6010	Manganese, Dissolved	234	ug/L	10.0	05/29/21 23:06	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>50288372002</b>	<b>MW-1I</b>					
EPA 6010	Molybdenum, Dissolved	95.7	ug/L	10.0	05/29/21 23:06	
EPA 903.1	Radium-226	0.461 ± 0.508 (0.813) C:NA T:88%	pCi/L		06/28/21 17:53	
EPA 904.0	Radium-228	1.44 ± 0.550 (0.843) C:74% T:83%	pCi/L		06/25/21 14:20	
Total Radium Calculation	Total Radium	1.90 ± 1.06 (1.66)	pCi/L		06/28/21 20:23	
SM 2320B	Alkalinity, Total as CaCO3	252	mg/L	2.0	06/04/21 13:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	252	mg/L	2.0	06/04/21 13:23	
SM 2540C	Total Dissolved Solids	548	mg/L	10.0	05/27/21 11:14	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	06/02/21 13:42	H3
<b>50288372003</b>	<b>MW-1D</b>					
EPA 9056	Chloride	94.1	mg/L	2.5	06/05/21 03:25	
EPA 9056	Fluoride	0.31	mg/L	0.10	06/05/21 03:09	
EPA 9056	Sulfate	83.4	mg/L	2.5	06/05/21 03:25	
EPA 6010	Barium	58.9	ug/L	10.0	06/02/21 09:16	
EPA 6010	Boron	983	ug/L	100	06/02/21 09:16	
EPA 6010	Calcium	69500	ug/L	1000	06/02/21 09:16	
EPA 6010	Iron	810	ug/L	100	06/02/21 09:16	
EPA 6010	Lithium	82.6	ug/L	20.0	06/02/21 09:16	
EPA 6010	Magnesium	20000	ug/L	1000	06/02/21 09:16	
EPA 6010	Manganese	323	ug/L	10.0	06/02/21 09:16	
EPA 6010	Molybdenum	106	ug/L	10.0	06/02/21 09:16	
EPA 6010	Potassium	7620	ug/L	1000	06/02/21 09:16	
EPA 6010	Silica	9690	ug/L	450	06/02/21 09:16	N2
EPA 6010	Sodium	78800	ug/L	1000	06/03/21 09:30	
EPA 6010	Manganese, Dissolved	294	ug/L	10.0	05/29/21 23:08	
EPA 6010	Molybdenum, Dissolved	105	ug/L	10.0	05/29/21 23:08	
EPA 6020	Arsenic	2.3	ug/L	1.0	06/01/21 23:18	
EPA 903.1	Radium-226	0.977 ± 0.673 (0.918) C:NA T:79%	pCi/L		06/28/21 17:53	
EPA 904.0	Radium-228	0.968 ± 0.468 (0.813) C:75% T:89%	pCi/L		06/25/21 14:20	
Total Radium Calculation	Total Radium	1.95 ± 1.14 (1.73)	pCi/L		06/28/21 20:23	
SM 2320B	Alkalinity, Total as CaCO3	230	mg/L	2.0	06/04/21 13:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	230	mg/L	2.0	06/04/21 13:23	
SM 2540C	Total Dissolved Solids	500	mg/L	10.0	05/27/21 11:31	1d,2d
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	06/02/21 13:43	H3
EPA 353.2	Nitrogen, Nitrate	0.20	mg/L	0.10	05/26/21 09:17	

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### SUMMARY OF DETECTION

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50288372003</b>	<b>MW-1D</b>					
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	06/02/21 19:34	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-1S		Lab ID: 50288372001	Collected: 05/25/21 11:20	Received: 05/25/21 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis						
Chloride	37.3	mg/L	2.5	10		06/07/21 15:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		06/05/21 00:58	16984-48-8	
Sulfate	254	mg/L	25.0	100		06/05/21 01:31	14808-79-8	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Aluminum	ND	ug/L	200	1	05/30/21 13:30	06/02/21 09:12	7429-90-5	
Barium	69.9	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:12	7440-39-3	
Boron	2800	ug/L	100	1	05/30/21 13:30	06/02/21 09:12	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/30/21 13:30	06/02/21 09:12	7440-43-9	
Calcium	209000	ug/L	2000	2	05/30/21 13:30	06/02/21 09:30	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:12	7440-47-3	
Iron	116	ug/L	100	1	05/30/21 13:30	06/02/21 09:12	7439-89-6	
Lead	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:12	7439-92-1	
Lithium	70.0	ug/L	20.0	1	05/30/21 13:30	06/02/21 09:12	7439-93-2	
Magnesium	45600	ug/L	1000	1	05/30/21 13:30	06/02/21 09:12	7439-95-4	
Manganese	11.1	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:12	7439-96-5	
Molybdenum	19.1	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:12	7439-98-7	
Potassium	6270	ug/L	1000	1	05/30/21 13:30	06/02/21 09:12	7440-09-7	
Silica	14100	ug/L	450	1	05/30/21 13:30	06/02/21 09:12	7631-86-9	N2
Sodium	32000	ug/L	1000	1	05/30/21 13:30	06/03/21 09:26	7440-23-5	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis						
Manganese, Dissolved	ND	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:04	7439-96-5	
Molybdenum, Dissolved	17.2	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:04	7439-98-7	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis						
Antimony	1.9	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:01	7440-36-0	
Arsenic	4.5	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:01	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/31/21 12:30	06/01/21 23:01	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:01	7440-48-4	
Selenium	24.4	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:01	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:01	7440-28-0	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis						
Mercury	ND	ug/L	2.0	1	06/08/21 03:09	06/08/21 08:34	7439-97-6	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis						
Alkalinity, Total as CaCO3	488	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Bicarbonate (CaCO3)	488	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/04/21 13:23		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-1S	Lab ID: 50288372001	Collected: 05/25/21 11:20	Received: 05/25/21 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	934	mg/L	20.0	1		05/27/21 11:13		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		06/02/21 13:39		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/26/21 11:02	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/27/21 10:24		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.4	mg/L	0.10	1		05/26/21 09:15	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/26/21 09:15	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	06/02/21 13:26	06/03/21 16:25		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/02/21 05:21	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		06/02/21 17:58		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-11	Lab ID: 50288372002	Collected: 05/25/21 10:15	Received: 05/25/21 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	89.0	mg/L	25.0	100		06/05/21 02:52	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		06/05/21 01:47	16984-48-8	
Sulfate	117	mg/L	25.0	100		06/05/21 02:52	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/30/21 13:30	06/02/21 09:14	7429-90-5	
Barium	55.4	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:14	7440-39-3	
Boron	1090	ug/L	100	1	05/30/21 13:30	06/02/21 09:14	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/30/21 13:30	06/02/21 09:14	7440-43-9	
Calcium	79100	ug/L	1000	1	05/30/21 13:30	06/02/21 09:14	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:14	7440-47-3	
Iron	ND	ug/L	100	1	05/30/21 13:30	06/02/21 09:14	7439-89-6	
Lead	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:14	7439-92-1	
Lithium	87.7	ug/L	20.0	1	05/30/21 13:30	06/02/21 09:14	7439-93-2	
Magnesium	26600	ug/L	1000	1	05/30/21 13:30	06/02/21 09:14	7439-95-4	
Manganese	246	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:14	7439-96-5	
Molybdenum	97.5	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:14	7439-98-7	
Potassium	7820	ug/L	1000	1	05/30/21 13:30	06/02/21 09:14	7440-09-7	
Silica	9650	ug/L	450	1	05/30/21 13:30	06/02/21 09:14	7631-86-9	N2
Sodium	73800	ug/L	1000	1	05/30/21 13:30	06/03/21 09:28	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	234	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:06	7439-96-5	
Molybdenum, Dissolved	95.7	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:06	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:14	7440-36-0	
Arsenic	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:14	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/31/21 12:30	06/01/21 23:14	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:14	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:14	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:14	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/08/21 03:09	06/08/21 08:36	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	252	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Bicarbonate (CaCO3)	252	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/04/21 13:23		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-11	Lab ID: 50288372002	Collected: 05/25/21 10:15	Received: 05/25/21 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	548	mg/L	10.0	1		05/27/21 11:14		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		06/02/21 13:42		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/26/21 11:19	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/27/21 10:24		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/26/21 09:10	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/26/21 09:10	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	06/02/21 13:26	06/03/21 16:26		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/02/21 05:47	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	1		06/02/21 19:08		

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## ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-1D	Lab ID: 50288372003	Collected: 05/25/21 13:20	Received: 05/25/21 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions</b>								
Analytical Method: EPA 9056								
Pace Analytical Services - Indianapolis								
Chloride	94.1	mg/L	2.5	10		06/05/21 03:25	16887-00-6	
Fluoride	0.31	mg/L	0.10	1		06/05/21 03:09	16984-48-8	
Sulfate	83.4	mg/L	2.5	10		06/05/21 03:25	14808-79-8	
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	1	05/30/21 13:30	06/02/21 09:16	7429-90-5	
Barium	58.9	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:16	7440-39-3	
Boron	983	ug/L	100	1	05/30/21 13:30	06/02/21 09:16	7440-42-8	
Cadmium	ND	ug/L	2.0	1	05/30/21 13:30	06/02/21 09:16	7440-43-9	
Calcium	69500	ug/L	1000	1	05/30/21 13:30	06/02/21 09:16	7440-70-2	
Chromium	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:16	7440-47-3	
Iron	810	ug/L	100	1	05/30/21 13:30	06/02/21 09:16	7439-89-6	
Lead	ND	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:16	7439-92-1	
Lithium	82.6	ug/L	20.0	1	05/30/21 13:30	06/02/21 09:16	7439-93-2	
Magnesium	20000	ug/L	1000	1	05/30/21 13:30	06/02/21 09:16	7439-95-4	
Manganese	323	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:16	7439-96-5	
Molybdenum	106	ug/L	10.0	1	05/30/21 13:30	06/02/21 09:16	7439-98-7	
Potassium	7620	ug/L	1000	1	05/30/21 13:30	06/02/21 09:16	7440-09-7	
Silica	9690	ug/L	450	1	05/30/21 13:30	06/02/21 09:16	7631-86-9	N2
Sodium	78800	ug/L	1000	1	05/30/21 13:30	06/03/21 09:30	7440-23-5	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Manganese, Dissolved	294	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:08	7439-96-5	
Molybdenum, Dissolved	105	ug/L	10.0	1	05/28/21 13:49	05/29/21 23:08	7439-98-7	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:18	7440-36-0	
Arsenic	2.3	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:18	7440-38-2	
Beryllium	ND	ug/L	0.20	1	05/31/21 12:30	06/01/21 23:18	7440-41-7	
Cobalt	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:18	7440-48-4	
Selenium	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:18	7782-49-2	
Thallium	ND	ug/L	1.0	1	05/31/21 12:30	06/01/21 23:18	7440-28-0	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	06/08/21 03:09	06/08/21 08:39	7439-97-6	
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B								
Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	230	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Bicarbonate (CaCO3)	230	mg/L	2.0	1		06/04/21 13:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	2.0	1		06/04/21 13:23		

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### ANALYTICAL RESULTS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Sample: MW-1D	Lab ID: 50288372003	Collected: 05/25/21 13:20	Received: 05/25/21 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	<b>500</b>	mg/L	10.0	1		05/27/21 11:31		1d,2d
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	<b>7.8</b>	Std. Units	0.10	1		06/02/21 13:43		H3
<b>4500S2D Sulfide Water</b>	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	1		05/26/21 11:19	18496-25-8	
<b>Iron, Ferrous</b>	Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	1		05/27/21 10:25		H3,N2
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	<b>0.20</b>	mg/L	0.10	1		05/26/21 09:17	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/26/21 09:17	14797-65-0	
<b>365.1 Total Phosphorus</b>	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	1	06/02/21 13:26	06/03/21 16:26		
<b>5310C TOC</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	1		06/02/21 06:12	7440-44-0	
<b>5310C Dissolved Organic Carbon</b>	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<b>1.0</b>	mg/L	1.0	1		06/02/21 19:34		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch:	624618	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2877722 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/04/21 17:38	
Fluoride	mg/L	ND	0.10	06/04/21 17:38	
Sulfate	mg/L	ND	0.25	06/04/21 17:38	

LABORATORY CONTROL SAMPLE: 2877723

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	0.49	99	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2877724 2877725

Parameter	Units	50288210003		2877724		2877725		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	2.4	1.2	1.2	3.6	3.7	98	99	80-120	1	15		
Fluoride	mg/L	0.086	0.5	0.5	0.57	0.58	96	98	80-120	2	15		
Sulfate	mg/L	63.2	25	25	87.3	87.8	97	99	80-120	1	15		

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

QC Batch: 623645 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2873943 Matrix: Water  
Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/08/21 08:27	

LABORATORY CONTROL SAMPLE: 2873944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873945 2873946

Parameter	Units	2873945		2873946		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50288402003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.0	4.9	99	98	75-125	2	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

QC Batch: 623040 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2871031 Matrix: Water  
Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	06/02/21 08:13	
Barium	ug/L	ND	10.0	06/02/21 08:13	
Boron	ug/L	ND	100	06/02/21 08:13	
Cadmium	ug/L	ND	2.0	06/02/21 08:13	
Calcium	ug/L	ND	1000	06/02/21 08:13	
Chromium	ug/L	ND	10.0	06/02/21 08:13	
Iron	ug/L	ND	100	06/02/21 08:13	
Lead	ug/L	ND	10.0	06/02/21 08:13	
Lithium	ug/L	ND	20.0	06/02/21 08:13	
Magnesium	ug/L	ND	1000	06/02/21 08:13	
Manganese	ug/L	ND	10.0	06/02/21 08:13	
Molybdenum	ug/L	ND	10.0	06/02/21 08:13	
Potassium	ug/L	ND	1000	06/02/21 08:13	
Silica	ug/L	ND	450	06/02/21 08:13	N2
Sodium	ug/L	ND	1000	06/02/21 08:13	

LABORATORY CONTROL SAMPLE: 2871032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	80-120	
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	1030	103	80-120	
Cadmium	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	10300	103	80-120	
Chromium	ug/L	1000	1040	104	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lead	ug/L	1000	983	98	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10700	100		N2
Sodium	ug/L	10000	10200	102	80-120	

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871033 2871034												
Parameter	Units	50288082003		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Aluminum	ug/L	ND	10000	10000	10000	9670	10000	97	100	75-125	3	20
Barium	ug/L	0.037 mg/L	1000	1000	1000	1000	1040	97	100	75-125	3	20
Boron	ug/L	0.23 mg/L	1000	1000	1230	1270	101	104	75-125	3	20	
Cadmium	ug/L	ND	1000	1000	975	1000	97	100	75-125	3	20	
Calcium	ug/L	116 mg/L	10000	10000	123000	125000	69	87	75-125	1	20 P6	
Chromium	ug/L	ND	1000	1000	983	1010	98	101	75-125	3	20	
Iron	ug/L	ND	10000	10000	9650	9890	96	99	75-125	2	20	
Lead	ug/L	ND	1000	1000	919	943	92	94	75-125	3	20	
Lithium	ug/L	0.0091 mg/L	1000	1000	985	1010	98	100	75-125	3	20	
Magnesium	ug/L	20.7 mg/L	10000	10000	29800	30400	91	97	75-125	2	20	
Manganese	ug/L	0.029 mg/L	1000	1000	972	996	94	97	75-125	2	20	
Molybdenum	ug/L	ND	1000	1000	1020	1050	101	104	75-125	3	20	
Potassium	ug/L	3.6 mg/L	10000	10000	13500	13700	98	101	75-125	2	20	
Silica	ug/L	12.1 mg/L	10700	10700	22300	22900	95	100		3	N2	
Sodium	ug/L	3.4 mg/L	10000	10000	13400	13600	100	101	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 623111	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2871191 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	05/29/21 22:37	
Molybdenum, Dissolved	ug/L	ND	10.0	05/29/21 22:37	

LABORATORY CONTROL SAMPLE: 2871192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	963	96	80-120	
Molybdenum, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871193 2871194

Parameter	Units	50288379001 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	ND	1000	1000	965	965	96	96	75-125	0	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1050	1040	105	104	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 623753

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2874482

Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	06/01/21 11:53	
Arsenic	ug/L	ND	1.0	06/01/21 11:53	
Beryllium	ug/L	ND	0.20	06/01/21 11:53	
Cobalt	ug/L	ND	1.0	06/01/21 11:53	
Selenium	ug/L	ND	1.0	06/01/21 11:53	
Thallium	ug/L	ND	1.0	06/01/21 11:53	

LABORATORY CONTROL SAMPLE: 2874483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	40.7	102	80-120	
Beryllium	ug/L	40	39.5	99	80-120	
Cobalt	ug/L	40	40.8	102	80-120	
Selenium	ug/L	40	41.7	104	80-120	
Thallium	ug/L	40	41.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874484 2874485

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	ug/L	40	<2.0	40	42.8	107	107	75-125	0	20	
Arsenic	ug/L	40	<5.0	40	40.5	101	101	75-125	1	20	
Beryllium	ug/L	40	<1.0	40	38.8	97	98	75-125	1	20	
Cobalt	ug/L	40	<1.0	40	39.9	100	99	75-125	0	20	
Selenium	ug/L	40	<5.0	40	40.8	102	102	75-125	0	20	
Thallium	ug/L	40	<2.0	40	42.1	105	105	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch:	624538	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2877382 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.0	06/04/21 13:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.0	06/04/21 13:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.0	06/04/21 13:23	

LABORATORY CONTROL SAMPLE: 2877383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.6	107	90-110	

SAMPLE DUPLICATE: 2877384

Parameter	Units	50288402003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	173	175	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	173	175	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2877385

Parameter	Units	50288402004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	150	151	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	150	151	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 622912	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002

METHOD BLANK: 2870281 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/27/21 11:01	

LABORATORY CONTROL SAMPLE: 2870282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	80-120	

SAMPLE DUPLICATE: 2870283

Parameter	Units	50288202001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3030	2940	3	10	

SAMPLE DUPLICATE: 2870284

Parameter	Units	50288379001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	272	1	10	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 623158	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372003

METHOD BLANK: 2871346 Matrix: Water

Associated Lab Samples: 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	27	10.0	05/27/21 11:22	1d,2d

LABORATORY CONTROL SAMPLE: 2871347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	307	102	80-120	1d,2d

SAMPLE DUPLICATE: 2871348

Parameter	Units	50288483007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1580	1590	1	10	1d,2d

SAMPLE DUPLICATE: 2871349

Parameter	Units	50288484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1410	1400	1	10	1d,2d

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch:	624064	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: 50288372001, 50288372002, 50288372003

SAMPLE DUPLICATE: 2875465

Parameter	Units	50288273002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	2	H3

SAMPLE DUPLICATE: 2875466

Parameter	Units	50288379001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

QC Batch: 622845	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: 50288372001

METHOD BLANK: 2870068 Matrix: Water  
Associated Lab Samples: 50288372001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/26/21 11:02	

LABORATORY CONTROL SAMPLE: 2870069

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: 2870070 2870071

Parameter	Units	50288202001		2870070		2870071		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Sulfide	mg/L	ND	0.5	0.5	.085J	.084J	13	13	90-110	20	M3

MATRIX SPIKE SAMPLE: 2870072

Parameter	Units	50288273004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.51	99	90-110	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 622847

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: 50288372002, 50288372003

METHOD BLANK: 2870075

Matrix: Water

Associated Lab Samples: 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	05/26/21 11:19	

LABORATORY CONTROL SAMPLE: 2870076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870077 2870078

Parameter	Units	50288379001		2870077		2870078		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Sulfide	mg/L	ND	0.5	0.5	0.47	0.46	89	88	90-110	1	20 M3

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**QUALITY CONTROL DATA**

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch:	623115	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50288372001, 50288372002, 50288372003		

METHOD BLANK: 2871201 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	05/27/21 10:22	H3,N2

LABORATORY CONTROL SAMPLE: 2871202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	103	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871203 2871204

Parameter	Units	50288379001		2871204		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	ND	1	1	1.0	1.0	103	103	90-110	0	20	H3,N2

MATRIX SPIKE SAMPLE: 2871205

Parameter	Units	50288372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	105	90-110	H3,N2

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

QC Batch: 622843      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: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2870062      Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/26/21 08:53	
Nitrogen, Nitrite	mg/L	ND	0.10	05/26/21 08:53	

LABORATORY CONTROL SAMPLE: 2870063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2870064      2870065

Parameter	Units	50288379001 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	107	106	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	102	101	90-110	0	20	

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 624058	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: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2875439 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	06/03/21 16:21	

LABORATORY CONTROL SAMPLE: 2875440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875442 2875443

Parameter	Units	50288822003		2875443		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Phosphate as P04	mg/L	ND		1.6	1.7		0		

MATRIX SPIKE SAMPLE: 2875444

Parameter	Units	50288741001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.7			

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

QC Batch: 623943 Analysis Method: SM 5310C  
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2874989 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/01/21 19:03	

LABORATORY CONTROL SAMPLE: 2874990

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: 2874991 2874992

Parameter	Units	50288202001		2874991		2874992		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Total Organic Carbon	mg/L	163	400	400	543	551	95	97	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2874993 2874994

Parameter	Units	50288308006		2874993		2874994		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Total Organic Carbon	mg/L	19.8	10	10	29.6	29.6	99	98	80-120	0	20

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### QUALITY CONTROL DATA

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 624157	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2875818 Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	06/02/21 14:52	

LABORATORY CONTROL SAMPLE: 2875819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875820 2875821

Parameter	Units	2875820		2875821		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50288402003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dissolved Organic Carbon	mg/L	2.4	10	10	12.4	12.2	101	98	80-120	2	20

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

**Sample: MW-1S**      **Lab ID: 50288372001**      Collected: 05/25/21 11:20      Received: 05/25/21 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	<b>-0.0551 ± 0.286 (0.662)</b> <b>C:NA T:93%</b>	pCi/L	06/28/21 17:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.594 ± 0.485 (0.976)</b> <b>C:74% T:80%</b>	pCi/L	06/25/21 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.594 ± 0.771 (1.64)</b>	pCi/L	06/28/21 20:23	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

**Sample: MW-11**      **Lab ID: 50288372002**      Collected: 05/25/21 10:15      Received: 05/25/21 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	<b>0.461 ± 0.508 (0.813)</b> <b>C:NA T:88%</b>	pCi/L	06/28/21 17:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.44 ± 0.550 (0.843)</b> <b>C:74% T:83%</b>	pCi/L	06/25/21 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.90 ± 1.06 (1.66)</b>	pCi/L	06/28/21 20:23	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

**Sample: MW-1D**      **Lab ID: 50288372003**      Collected: 05/25/21 13:20      Received: 05/25/21 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	<b>0.977 ± 0.673 (0.918)</b> <b>C:NA T:79%</b>	pCi/L	06/28/21 17:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.968 ± 0.468 (0.813)</b> <b>C:75% T:89%</b>	pCi/L	06/25/21 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.95 ± 1.14 (1.73)</b>	pCi/L	06/28/21 20:23	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 451480

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: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2178899

Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.544 ± 0.389 (0.750) C:75% T:84%	pCi/L	06/25/21 14:21	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

QC Batch: 451479

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: 50288372001, 50288372002, 50288372003

METHOD BLANK: 2178897

Matrix: Water

Associated Lab Samples: 50288372001, 50288372002, 50288372003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.102 ± 0.399 (0.763) C:NA T:85%	pCi/L	06/28/21 17:53	

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## QUALIFIERS

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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: 623158

[1] Analyte was detected in the Method Blank.

[2] Batch reanalysis could not be performed within Method hold time.

### ANALYTE QUALIFIERS

1d Analyte was detected in the Method Blank.

2d Batch reanalysis could not be performed within Method hold time.

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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report1  
Pace Project No.: 50288372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50288372001	MW-1S	EPA 9056	624618		
50288372002	MW-1I	EPA 9056	624618		
50288372003	MW-1D	EPA 9056	624618		
50288372001	MW-1S	EPA 3010	623040	EPA 6010	624038
50288372002	MW-1I	EPA 3010	623040	EPA 6010	624038
50288372003	MW-1D	EPA 3010	623040	EPA 6010	624038
50288372001	MW-1S	EPA 3010	623111	EPA 6010	623688
50288372002	MW-1I	EPA 3010	623111	EPA 6010	623688
50288372003	MW-1D	EPA 3010	623111	EPA 6010	623688
50288372001	MW-1S	EPA 200.2	623753	EPA 6020	623780
50288372002	MW-1I	EPA 200.2	623753	EPA 6020	623780
50288372003	MW-1D	EPA 200.2	623753	EPA 6020	623780
50288372001	MW-1S	EPA 7470	623645	EPA 7470	624987
50288372002	MW-1I	EPA 7470	623645	EPA 7470	624987
50288372003	MW-1D	EPA 7470	623645	EPA 7470	624987
50288372001	MW-1S	EPA 903.1	451479		
50288372002	MW-1I	EPA 903.1	451479		
50288372003	MW-1D	EPA 903.1	451479		
50288372001	MW-1S	EPA 904.0	451480		
50288372002	MW-1I	EPA 904.0	451480		
50288372003	MW-1D	EPA 904.0	451480		
50288372001	MW-1S	Total Radium Calculation	454333		
50288372002	MW-1I	Total Radium Calculation	454333		
50288372003	MW-1D	Total Radium Calculation	454333		
50288372001	MW-1S	SM 2320B	624538		
50288372002	MW-1I	SM 2320B	624538		
50288372003	MW-1D	SM 2320B	624538		
50288372001	MW-1S	SM 2540C	622912		
50288372002	MW-1I	SM 2540C	622912		
50288372003	MW-1D	SM 2540C	623158		
50288372001	MW-1S	SM 4500-H+B	624064		
50288372002	MW-1I	SM 4500-H+B	624064		
50288372003	MW-1D	SM 4500-H+B	624064		
50288372001	MW-1S	SM 4500-S2-D	622845		
50288372002	MW-1I	SM 4500-S2-D	622847		
50288372003	MW-1D	SM 4500-S2-D	622847		
50288372001	MW-1S	HACH 8146	623115		
50288372002	MW-1I	HACH 8146	623115		
50288372003	MW-1D	HACH 8146	623115		
50288372001	MW-1S	EPA 353.2	622843		
50288372002	MW-1I	EPA 353.2	622843		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley Profile1 Report1

Pace Project No.: 50288372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50288372003	MW-1D	EPA 353.2	622843		
50288372001	MW-1S	EPA 365.1	624058	EPA 365.1	624373
50288372002	MW-1I	EPA 365.1	624058	EPA 365.1	624373
50288372003	MW-1D	EPA 365.1	624058	EPA 365.1	624373
50288372001	MW-1S	SM 5310C	623943		
50288372002	MW-1I	SM 5310C	623943		
50288372003	MW-1D	SM 5310C	623943		
50288372001	MW-1S	SM 5310C	624157		
50288372002	MW-1I	SM 5310C	624157		
50288372003	MW-1D	SM 5310C	624157		

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## **Attachment C: Statistical Analyses – Prediction Limits Documentation**

**November 2020 and May 2021**



**Table 1**

**Upgradient Data**

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	mg/L	MW-4S	04/20/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4S	06/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4S	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4S	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4S	12/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4S	01/31/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4S	05/25/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4S	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4S	05/22/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4S	09/12/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4S	05/07/2019	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-8S	04/20/2016	ND	0.0060		
Antimony, Total	mg/L	MW-8S	05/31/2016	ND	0.0060		
Antimony, Total	mg/L	MW-8S	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-8S	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-8S	12/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-8S	01/30/2017	ND	0.0060		
Antimony, Total	mg/L	MW-8S	05/25/2017	ND	0.0060		
Antimony, Total	mg/L	MW-8S	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-8S	05/22/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-8S	09/12/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-8S	05/07/2019	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9S	04/21/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9S	05/31/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9S	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9S	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9S	11/30/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9S	01/30/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9S	05/24/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9S	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9S	05/21/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9S	09/12/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9S	05/07/2019	ND	0.0010	0.0060	**

\* - 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	
Arsenic, Total	mg/L	MW-4S	04/20/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	06/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	12/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	01/31/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	05/25/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4S	05/22/2018		0.0032		
Arsenic, Total	mg/L	MW-4S	09/12/2018		0.0021		
Arsenic, Total	mg/L	MW-4S	05/07/2019		0.0059		
Arsenic, Total	mg/L	MW-8S	04/20/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	05/31/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	12/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	01/30/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	05/25/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-8S	05/22/2018		0.0027		
Arsenic, Total	mg/L	MW-8S	09/12/2018		0.0025		
Arsenic, Total	mg/L	MW-8S	05/07/2019		0.0015		
Arsenic, Total	mg/L	MW-9S	04/21/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	05/31/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	11/30/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	01/30/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	05/24/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9S	05/21/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9S	09/12/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9S	05/07/2019	ND	0.0010	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
Barium, Total	mg/L	MW-4S	04/20/2016	0.0410	
Barium, Total	mg/L	MW-4S	06/01/2016	0.0338	
Barium, Total	mg/L	MW-4S	08/11/2016	0.0394	
Barium, Total	mg/L	MW-4S	09/29/2016	0.0406	
Barium, Total	mg/L	MW-4S	12/01/2016	0.0448	
Barium, Total	mg/L	MW-4S	01/31/2017	0.0473	
Barium, Total	mg/L	MW-4S	05/25/2017	0.0433	
Barium, Total	mg/L	MW-4S	08/10/2017	0.0529	
Barium, Total	mg/L	MW-4S	05/22/2018	0.1980	*
Barium, Total	mg/L	MW-4S	09/12/2018	0.0567	
Barium, Total	mg/L	MW-4S	05/07/2019	0.1260	
Barium, Total	mg/L	MW-8S	04/20/2016	0.0777	
Barium, Total	mg/L	MW-8S	05/31/2016	0.0747	
Barium, Total	mg/L	MW-8S	08/11/2016	0.0633	
Barium, Total	mg/L	MW-8S	09/29/2016	0.0641	
Barium, Total	mg/L	MW-8S	12/01/2016	0.0588	
Barium, Total	mg/L	MW-8S	01/30/2017	0.0606	
Barium, Total	mg/L	MW-8S	05/25/2017	0.0636	
Barium, Total	mg/L	MW-8S	08/10/2017	0.0565	
Barium, Total	mg/L	MW-8S	05/22/2018	0.0566	
Barium, Total	mg/L	MW-8S	09/12/2018	0.1100	
Barium, Total	mg/L	MW-8S	05/07/2019	0.1300	
Barium, Total	mg/L	MW-9S	04/21/2016	0.0685	
Barium, Total	mg/L	MW-9S	05/31/2016	0.0730	
Barium, Total	mg/L	MW-9S	08/11/2016	0.0712	
Barium, Total	mg/L	MW-9S	09/29/2016	0.0669	
Barium, Total	mg/L	MW-9S	11/30/2016	0.0654	
Barium, Total	mg/L	MW-9S	01/30/2017	0.0749	
Barium, Total	mg/L	MW-9S	05/24/2017	0.0698	
Barium, Total	mg/L	MW-9S	08/10/2017	0.0728	
Barium, Total	mg/L	MW-9S	05/21/2018	0.1060	
Barium, Total	mg/L	MW-9S	09/12/2018	0.0516	
Barium, Total	mg/L	MW-9S	05/07/2019	0.0856	

\* - 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-4S	04/20/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	06/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	12/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	01/31/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	05/25/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4S	05/22/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-4S	05/07/2019	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-8S	04/20/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	05/31/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	12/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	01/30/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	05/25/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-8S	05/22/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-8S	05/07/2019	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9S	04/21/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	05/31/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	11/30/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	01/30/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	05/24/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9S	05/21/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9S	05/07/2019	ND	0.0002	0.0040	**
Cadmium, Total	mg/L	MW-4S	04/20/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	06/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	08/11/2016	ND	0.0020		

\* - 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	
Cadmium, Total	mg/L	MW-4S	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	12/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	01/31/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	05/25/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	05/22/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-4S	05/07/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	04/20/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	05/31/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	08/11/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	12/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	01/30/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	05/25/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	05/22/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-8S	05/07/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	04/21/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	05/31/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	08/11/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	11/30/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	01/30/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	05/24/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	05/21/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-9S	05/07/2019	ND	0.0020		
Chromium, Total	mg/L	MW-4S	04/20/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4S	06/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4S	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4S	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4S	12/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4S	01/31/2017	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-4S	05/25/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4S	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4S	05/22/2018	ND	0.0100		
Chromium, Total	mg/L	MW-4S	05/07/2019	ND	0.0100		
Chromium, Total	mg/L	MW-8S	04/20/2016	ND	0.0100		
Chromium, Total	mg/L	MW-8S	05/31/2016	ND	0.0100		
Chromium, Total	mg/L	MW-8S	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-8S	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-8S	12/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-8S	01/30/2017	ND	0.0100		
Chromium, Total	mg/L	MW-8S	05/25/2017	ND	0.0100		
Chromium, Total	mg/L	MW-8S	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-8S	05/22/2018	ND	0.0100		
Chromium, Total	mg/L	MW-8S	05/07/2019	ND	0.0100		
Chromium, Total	mg/L	MW-9S	04/21/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9S	05/31/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9S	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9S	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9S	11/30/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9S	01/30/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9S	05/24/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9S	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9S	05/21/2018	ND	0.0100		
Chromium, Total	mg/L	MW-9S	05/07/2019	ND	0.0100		
Cobalt, Total	ug/L	MW-4S	04/20/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-4S	06/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	12/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	01/31/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	05/25/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4S	05/22/2018	ND	1.0000	5.0000	**

\* - 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	ug/L	MW-4S	09/12/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-4S	05/07/2019	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-8S	04/20/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-8S	05/31/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	12/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	01/30/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	05/25/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-8S	05/22/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-8S	09/12/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-8S	05/07/2019	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9S	04/21/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-9S	05/31/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	11/30/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	01/30/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	05/24/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9S	05/21/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9S	09/12/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9S	05/07/2019	ND	1.0000	5.0000	**
Fluoride	mg/L	MW-4S	04/20/2016		0.2900		
Fluoride	mg/L	MW-4S	06/01/2016		0.2800		
Fluoride	mg/L	MW-4S	08/11/2016		0.3100		
Fluoride	mg/L	MW-4S	09/29/2016		0.3100		
Fluoride	mg/L	MW-4S	12/01/2016		0.3100		
Fluoride	mg/L	MW-4S	01/31/2017		0.2300		
Fluoride	mg/L	MW-4S	05/25/2017		0.3000		
Fluoride	mg/L	MW-4S	08/10/2017		0.2600		
Fluoride	mg/L	MW-4S	09/28/2017		0.3100		

\* - 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	
Fluoride	mg/L	MW-4S	05/22/2018		0.2600		
Fluoride	mg/L	MW-4S	09/12/2018		0.2800		
Fluoride	mg/L	MW-4S	05/07/2019		0.2000		
Fluoride	mg/L	MW-8S	04/20/2016		0.2700		
Fluoride	mg/L	MW-8S	05/31/2016		0.2800		
Fluoride	mg/L	MW-8S	08/11/2016		0.3200		
Fluoride	mg/L	MW-8S	09/29/2016		0.3500		
Fluoride	mg/L	MW-8S	12/01/2016		0.3600		
Fluoride	mg/L	MW-8S	01/30/2017		0.2900		
Fluoride	mg/L	MW-8S	05/25/2017		0.3400		
Fluoride	mg/L	MW-8S	08/10/2017		0.3800		
Fluoride	mg/L	MW-8S	09/27/2017		0.3600		
Fluoride	mg/L	MW-8S	05/22/2018		0.2700		
Fluoride	mg/L	MW-8S	09/12/2018		0.2400		
Fluoride	mg/L	MW-8S	05/07/2019		0.1900		
Fluoride	mg/L	MW-9S	04/21/2016		0.1600		
Fluoride	mg/L	MW-9S	05/31/2016		0.1500		
Fluoride	mg/L	MW-9S	08/11/2016		0.2300		
Fluoride	mg/L	MW-9S	09/29/2016		0.2400		
Fluoride	mg/L	MW-9S	11/30/2016		0.3600		
Fluoride	mg/L	MW-9S	01/30/2017		0.1400		
Fluoride	mg/L	MW-9S	05/24/2017		0.2300		
Fluoride	mg/L	MW-9S	08/10/2017		0.1800		
Fluoride	mg/L	MW-9S	09/27/2017		0.2800		
Fluoride	mg/L	MW-9S	05/21/2018		0.1700		
Fluoride	mg/L	MW-9S	09/12/2018		0.1500		
Fluoride	mg/L	MW-9S	05/07/2019		0.1700		
Lead, Total	mg/L	MW-4S	04/20/2016	ND	0.0100		
Lead, Total	mg/L	MW-4S	06/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4S	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-4S	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-4S	12/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4S	01/31/2017	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	
Lead, Total	mg/L	MW-4S	05/25/2017	ND	0.0100		
Lead, Total	mg/L	MW-4S	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-4S	05/22/2018	ND	0.0100		
Lead, Total	mg/L	MW-4S	05/07/2019	ND	0.0100		
Lead, Total	mg/L	MW-8S	04/20/2016	ND	0.0100		
Lead, Total	mg/L	MW-8S	05/31/2016	ND	0.0100		
Lead, Total	mg/L	MW-8S	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-8S	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-8S	12/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-8S	01/30/2017	ND	0.0100		
Lead, Total	mg/L	MW-8S	05/25/2017	ND	0.0100		
Lead, Total	mg/L	MW-8S	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-8S	05/22/2018	ND	0.0100		
Lead, Total	mg/L	MW-8S	05/07/2019	ND	0.0100		
Lead, Total	mg/L	MW-9S	04/21/2016	ND	0.0100		
Lead, Total	mg/L	MW-9S	05/31/2016	ND	0.0100		
Lead, Total	mg/L	MW-9S	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-9S	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-9S	11/30/2016	ND	0.0100		
Lead, Total	mg/L	MW-9S	01/30/2017	ND	0.0100		
Lead, Total	mg/L	MW-9S	05/24/2017	ND	0.0100		
Lead, Total	mg/L	MW-9S	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-9S	05/21/2018	ND	0.0100		
Lead, Total	mg/L	MW-9S	05/07/2019	ND	0.0100		
Lithium, Total	ug/L	MW-4S	04/20/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4S	06/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4S	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4S	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4S	12/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4S	01/31/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4S	05/25/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4S	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4S	05/22/2018		95.5000		

\* - 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	
Lithium, Total	ug/L	MW-4S	09/12/2018	ND	20.0000		
Lithium, Total	ug/L	MW-4S	05/07/2019		67.5000		
Lithium, Total	ug/L	MW-8S	04/20/2016	ND	20.0000		
Lithium, Total	ug/L	MW-8S	05/31/2016	ND	20.0000		
Lithium, Total	ug/L	MW-8S	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-8S	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-8S	12/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-8S	01/30/2017	ND	20.0000		
Lithium, Total	ug/L	MW-8S	05/25/2017	ND	20.0000		
Lithium, Total	ug/L	MW-8S	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-8S	05/22/2018	ND	20.0000		
Lithium, Total	ug/L	MW-8S	09/12/2018	ND	20.0000		
Lithium, Total	ug/L	MW-8S	05/07/2019		44.1000		
Lithium, Total	ug/L	MW-9S	04/21/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9S	05/31/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9S	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9S	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9S	11/30/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9S	01/30/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9S	05/24/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9S	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9S	05/21/2018	ND	20.0000		
Lithium, Total	ug/L	MW-9S	09/12/2018		33.5000		
Lithium, Total	ug/L	MW-9S	05/07/2019		81.2000		
Mercury	mg/L	MW-4S	04/20/2016	ND	0.0020		
Mercury	mg/L	MW-4S	06/01/2016	ND	0.0020		
Mercury	mg/L	MW-4S	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-4S	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-4S	12/01/2016	ND	0.0020		
Mercury	mg/L	MW-4S	01/31/2017	ND	0.0020		
Mercury	mg/L	MW-4S	05/25/2017	ND	0.0020		
Mercury	mg/L	MW-4S	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-4S	05/22/2018	ND	0.0020		

\* - 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-4S	05/07/2019	ND	0.0020		
Mercury	mg/L	MW-8S	04/20/2016	ND	0.0020		
Mercury	mg/L	MW-8S	05/31/2016	ND	0.0020		
Mercury	mg/L	MW-8S	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-8S	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-8S	12/01/2016	ND	0.0020		
Mercury	mg/L	MW-8S	01/30/2017	ND	0.0020		
Mercury	mg/L	MW-8S	05/25/2017	ND	0.0020		
Mercury	mg/L	MW-8S	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-8S	05/22/2018	ND	0.0020		
Mercury	mg/L	MW-8S	05/07/2019	ND	0.0020		
Mercury	mg/L	MW-9S	04/21/2016	ND	0.0020		
Mercury	mg/L	MW-9S	05/31/2016	ND	0.0020		
Mercury	mg/L	MW-9S	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-9S	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-9S	11/30/2016	ND	0.0020		
Mercury	mg/L	MW-9S	01/30/2017	ND	0.0020		
Mercury	mg/L	MW-9S	05/24/2017	ND	0.0020		
Mercury	mg/L	MW-9S	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-9S	05/21/2018	ND	0.0020		
Mercury	mg/L	MW-9S	05/07/2019	ND	0.0020		
Molybdenum, Total	ug/L	MW-4S	04/20/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	06/01/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	08/11/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	09/29/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	12/01/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	01/31/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	05/25/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	08/10/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-4S	05/22/2018		73.4000		
Molybdenum, Total	ug/L	MW-4S	09/12/2018		50.3000		
Molybdenum, Total	ug/L	MW-4S	05/07/2019		97.8000		
Molybdenum, Total	ug/L	MW-8S	04/20/2016	ND	10.0000		

\* - 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	ug/L	MW-8S	05/31/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-8S	08/11/2016		10.3000		
Molybdenum, Total	ug/L	MW-8S	09/29/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-8S	12/01/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-8S	01/30/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-8S	05/25/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-8S	08/10/2017		12.4000		
Molybdenum, Total	ug/L	MW-8S	05/22/2018		13.0000		
Molybdenum, Total	ug/L	MW-8S	09/12/2018		23.9000		
Molybdenum, Total	ug/L	MW-8S	05/07/2019		36.3000		*
Molybdenum, Total	ug/L	MW-9S	04/21/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	05/31/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	08/11/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	09/29/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	11/30/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	01/30/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	05/24/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	08/10/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	05/21/2018	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	09/12/2018	ND	10.0000		
Molybdenum, Total	ug/L	MW-9S	05/07/2019		77.6000		
Selenium, Total	mg/L	MW-4S	04/20/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4S	06/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4S	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4S	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4S	12/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4S	01/31/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4S	05/25/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4S	08/10/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4S	05/22/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4S	09/12/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4S	05/07/2019	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-8S	04/20/2016	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	
Selenium, Total	mg/L	MW-8S	05/31/2016	ND	0.0100		
Selenium, Total	mg/L	MW-8S	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-8S	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-8S	12/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-8S	01/30/2017	ND	0.0100		
Selenium, Total	mg/L	MW-8S	05/25/2017	ND	0.0100		
Selenium, Total	mg/L	MW-8S	08/10/2017	ND	0.0100		
Selenium, Total	mg/L	MW-8S	05/22/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-8S	09/12/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-8S	05/07/2019	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9S	04/21/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9S	05/31/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9S	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9S	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9S	11/30/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9S	01/30/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9S	05/24/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9S	08/10/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9S	05/21/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9S	09/12/2018		0.0012		
Selenium, Total	mg/L	MW-9S	05/07/2019		0.0012		
Thallium, Total	mg/L	MW-4S	04/20/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-4S	06/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4S	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4S	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4S	12/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4S	01/31/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4S	05/25/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4S	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4S	05/22/2018	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-4S	05/07/2019	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-8S	04/20/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-8S	05/31/2016	ND	0.0020		

\* - 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-8S	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-8S	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-8S	12/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-8S	01/30/2017	ND	0.0020		
Thallium, Total	mg/L	MW-8S	05/25/2017	ND	0.0020		
Thallium, Total	mg/L	MW-8S	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-8S	05/22/2018	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-8S	05/07/2019	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-9S	04/21/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-9S	05/31/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9S	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9S	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9S	11/30/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9S	01/30/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9S	05/24/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9S	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9S	05/21/2018	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-9S	05/07/2019	ND	0.0010	0.0020	**
Total Radium	pCi/L	MW-4S	04/20/2016	ND	1.3200	1.5700	**
Total Radium	pCi/L	MW-4S	06/01/2016	ND	1.5900	1.5700	**
Total Radium	pCi/L	MW-4S	08/11/2016	ND	1.5700		
Total Radium	pCi/L	MW-4S	09/29/2016		1.4100		
Total Radium	pCi/L	MW-4S	12/01/2016	ND	1.2400	1.5700	**
Total Radium	pCi/L	MW-4S	01/31/2017	ND	0.9620	1.5700	**
Total Radium	pCi/L	MW-4S	05/25/2017		0.8010		
Total Radium	pCi/L	MW-4S	08/10/2017		0.7490		
Total Radium	pCi/L	MW-4S	05/22/2018		0.8240		
Total Radium	pCi/L	MW-4S	09/12/2018	ND	1.7400	1.5700	**
Total Radium	pCi/L	MW-4S	05/07/2019	ND	1.6100	1.5700	**
Total Radium	pCi/L	MW-8S	04/20/2016		0.6290		
Total Radium	pCi/L	MW-8S	05/31/2016		1.0200		
Total Radium	pCi/L	MW-8S	08/11/2016		1.0400		
Total Radium	pCi/L	MW-8S	09/29/2016	ND	1.2000	1.5700	**

\* - 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	
Total Radium	pCi/L	MW-8S	12/01/2016	ND	1.3800	1.5700	**
Total Radium	pCi/L	MW-8S	01/30/2017	ND	2.0500	1.5700	**
Total Radium	pCi/L	MW-8S	05/25/2017		1.0300		
Total Radium	pCi/L	MW-8S	08/10/2017		1.4800		
Total Radium	pCi/L	MW-8S	05/22/2018		0.5690		
Total Radium	pCi/L	MW-8S	09/12/2018		0.8730		
Total Radium	pCi/L	MW-8S	05/07/2019	ND	1.6300	1.5700	**
Total Radium	pCi/L	MW-9S	04/21/2016	ND	1.7500	1.5700	**
Total Radium	pCi/L	MW-9S	05/31/2016		1.1100		
Total Radium	pCi/L	MW-9S	08/11/2016	ND	1.4700	1.5700	**
Total Radium	pCi/L	MW-9S	09/29/2016		1.0100		
Total Radium	pCi/L	MW-9S	11/30/2016	ND	1.3500	1.5700	**
Total Radium	pCi/L	MW-9S	01/30/2017	ND	2.1600	1.5700	**
Total Radium	pCi/L	MW-9S	05/24/2017		0.9100		
Total Radium	pCi/L	MW-9S	08/10/2017		0.8260		
Total Radium	pCi/L	MW-9S	05/21/2018		0.4020		
Total Radium	pCi/L	MW-9S	09/12/2018	ND	1.7400	1.5700	**
Total Radium	pCi/L	MW-9S	05/07/2019		0.5180		

\* - 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	05/07/2019		0.0016		0.0060
Antimony, Total	mg/L	MW-11S	05/08/2019		0.0017		0.0060
Antimony, Total	mg/L	MW-12S	05/08/2019		0.0015		0.0060
Antimony, Total	mg/L	MW-1S	05/08/2019		0.0018		0.0060
Antimony, Total	mg/L	MW-2S	05/09/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-3S	05/09/2019		0.0014		0.0060
Antimony, Total	mg/L	MW-6S	05/08/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-7S	05/07/2019		0.0017		0.0060
Arsenic, Total	mg/L	MW-10S	05/07/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-11S	05/08/2019		0.0796	***	0.0100
Arsenic, Total	mg/L	MW-12S	05/08/2019		0.0016		0.0100
Arsenic, Total	mg/L	MW-1S	05/08/2019		0.0030	**	0.0100
Arsenic, Total	mg/L	MW-2S	05/09/2019		0.0151	***	0.0100
Arsenic, Total	mg/L	MW-3S	05/09/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-6S	05/08/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-7S	05/07/2019	ND	0.0010		0.0100
Barium, Total	mg/L	MW-10S	05/07/2019		0.0912		0.1300
Barium, Total	mg/L	MW-11S	05/08/2019		0.0854		0.1300
Barium, Total	mg/L	MW-12S	05/08/2019		0.1190		0.1300
Barium, Total	mg/L	MW-1S	05/08/2019		0.0535		0.1300
Barium, Total	mg/L	MW-2S	05/09/2019		0.2180	***	0.1300
Barium, Total	mg/L	MW-3S	05/09/2019		0.0970		0.1300
Barium, Total	mg/L	MW-6S	05/08/2019		0.0674		0.1300
Barium, Total	mg/L	MW-7S	05/07/2019		0.0951		0.1300
Beryllium, Total	mg/L	MW-10S	05/07/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-11S	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-12S	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-1S	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-2S	05/09/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-3S	05/09/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-6S	05/08/2019	ND	0.0002		0.0040

\* - 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
Beryllium, Total	mg/L	MW-7S	05/07/2019	ND	0.0002	0.0040
Cadmium, Total	mg/L	MW-10S	05/07/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-11S	05/08/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-12S	05/08/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-1S	05/08/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-2S	05/09/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-3S	05/09/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-6S	05/08/2019	ND	0.0020	0.0020
Cadmium, Total	mg/L	MW-7S	05/07/2019	ND	0.0020	0.0020
Chromium, Total	mg/L	MW-10S	05/07/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-11S	05/08/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-12S	05/08/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-1S	05/08/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-2S	05/09/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-3S	05/09/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-6S	05/08/2019	ND	0.0100	0.0100
Chromium, Total	mg/L	MW-7S	05/07/2019	ND	0.0100	0.0100
Cobalt, Total	ug/L	MW-10S	05/07/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-11S	05/08/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-12S	05/08/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-1S	05/08/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-2S	05/09/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-3S	05/09/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-6S	05/08/2019	ND	1.0000	5.0000
Cobalt, Total	ug/L	MW-7S	05/07/2019	ND	1.0000	5.0000
Fluoride	mg/L	MW-10S	05/07/2019		0.2400	0.4299
Fluoride	mg/L	MW-11S	05/08/2019		0.2300	0.4299
Fluoride	mg/L	MW-12S	05/08/2019		0.2800	0.4299
Fluoride	mg/L	MW-1S	05/08/2019		0.1300	0.4299
Fluoride	mg/L	MW-2S	05/09/2019		0.1500	0.4299
Fluoride	mg/L	MW-3S	05/09/2019		0.2000	0.4299

\* - 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
Fluoride	mg/L	MW-6S	05/08/2019		0.1700		0.4299
Fluoride	mg/L	MW-7S	05/07/2019	ND	0.1000		0.4299
Lead, Total	mg/L	MW-10S	05/07/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-11S	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-12S	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-1S	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2S	05/09/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3S	05/09/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-6S	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-7S	05/07/2019	ND	0.0100		0.0100
Lithium, Total	ug/L	MW-10S	05/07/2019		98.8000	*	95.5000
Lithium, Total	ug/L	MW-11S	05/08/2019		111.0000	***	95.5000
Lithium, Total	ug/L	MW-12S	05/08/2019		97.3000	*	95.5000
Lithium, Total	ug/L	MW-1S	05/08/2019		83.4000		95.5000
Lithium, Total	ug/L	MW-2S	05/09/2019		102.0000	*	95.5000
Lithium, Total	ug/L	MW-3S	05/09/2019		29.8000		95.5000
Lithium, Total	ug/L	MW-6S	05/08/2019		21.5000		95.5000
Lithium, Total	ug/L	MW-7S	05/07/2019		30.7000	**	95.5000
Mercury	mg/L	MW-10S	05/07/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-11S	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-12S	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-1S	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-2S	05/09/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-3S	05/09/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-6S	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-7S	05/07/2019	ND	0.0020		0.0020
Molybdenum, Total	ug/L	MW-10S	05/07/2019		86.2000	**	97.8000
Molybdenum, Total	ug/L	MW-11S	05/08/2019		147.0000	***	97.8000
Molybdenum, Total	ug/L	MW-12S	05/08/2019		42.4000		97.8000
Molybdenum, Total	ug/L	MW-1S	05/08/2019		15.1000		97.8000
Molybdenum, Total	ug/L	MW-2S	05/09/2019		10.3000		97.8000

\* - 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	ug/L	MW-3S	05/09/2019		38.9000		97.8000
Molybdenum, Total	ug/L	MW-6S	05/08/2019		39.6000	**	97.8000
Molybdenum, Total	ug/L	MW-7S	05/07/2019		39.2000	**	97.8000
Selenium, Total	mg/L	MW-10S	05/07/2019		0.0013		0.0100
Selenium, Total	mg/L	MW-11S	05/08/2019		0.0089		0.0100
Selenium, Total	mg/L	MW-12S	05/08/2019		0.0303	*	0.0100
Selenium, Total	mg/L	MW-1S	05/08/2019		0.0210	***	0.0100
Selenium, Total	mg/L	MW-2S	05/09/2019		0.0219	*	0.0100
Selenium, Total	mg/L	MW-3S	05/09/2019		0.0081		0.0100
Selenium, Total	mg/L	MW-6S	05/08/2019		0.0065		0.0100
Selenium, Total	mg/L	MW-7S	05/07/2019		0.0060	**	0.0100
Thallium, Total	mg/L	MW-10S	05/07/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-11S	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-12S	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-1S	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-2S	05/09/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-3S	05/09/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-6S	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-7S	05/07/2019	ND	0.0010		0.0020
Total Radium	pCi/L	MW-10S	05/07/2019		1.9600	*	1.5700
Total Radium	pCi/L	MW-11S	05/08/2019		1.1500		1.5700
Total Radium	pCi/L	MW-12S	05/08/2019	ND	1.9500	**	1.5700
Total Radium	pCi/L	MW-1S	05/08/2019		1.0800		1.5700
Total Radium	pCi/L	MW-2S	05/09/2019		0.9480	**	1.5700
Total Radium	pCi/L	MW-3S	05/09/2019		0.9920		1.5700
Total Radium	pCi/L	MW-6S	05/08/2019	ND	2.0800		1.5700
Total Radium	pCi/L	MW-7S	05/07/2019		0.9530		1.5700

\* - 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	33	0.000	20	88	0.227
Arsenic, Total	6	33	0.182	29	88	0.330
Barium, Total	32	32	1.000	88	88	1.000
Beryllium, Total	0	30	0.000	0	80	0.000
Cadmium, Total	0	30	0.000	0	80	0.000
Chromium, Total	0	30	0.000	0	80	0.000
Cobalt, Total	0	33	0.000	1	88	0.011
Fluoride	36	36	1.000	94	96	0.979
Lead, Total	0	30	0.000	3	80	0.038
Lithium, Total	5	33	0.152	87	88	0.989
Mercury	0	30	0.000	0	80	0.000
Molybdenum, Total	8	32	0.250	88	88	1.000
Selenium, Total	2	33	0.061	35	88	0.398
Thallium, Total	0	30	0.000	0	80	0.000
Total Radium	17	33	0.515	63	88	0.716

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	33	0.000	6.036	6.036					2.326	non-norm	nonpar
Arsenic, Total	6	33	0.182	6.728	6.631					2.326	non-norm	nonpar
Barium, Total	32	32	1.000	4.841	3.286					2.326	non-norm	nonpar
Beryllium, Total	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Cadmium, Total	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Chromium, Total	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Cobalt, Total	0	33	0.000	6.036	6.036					2.326	non-norm	nonpar
Fluoride	36	36	1.000	1.889	1.996					2.326	normal	normal
Lead, Total	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Lithium, Total	5	33	0.152	8.539	8.169					2.326	non-norm	nonpar
Mercury	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Molybdenum, Total	8	32	0.250	7.017	6.731					2.326	non-norm	nonpar
Selenium, Total	2	33	0.061	7.170	7.170					2.326	non-norm	nonpar
Thallium, Total	0	30	0.000	5.650	5.650					2.326	non-norm	nonpar
Total Radium	17	33	0.515	4.187	4.288					2.326	non-norm	nonpar

\* - 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	33					0.0060	nonpar	***	0.99
Arsenic, Total	mg/L	6	33					0.0100	nonpar	***	0.99
Barium, Total	mg/L	32	32					0.1300	nonpar		0.99
Beryllium, Total	mg/L	0	30					0.0040	nonpar	***	0.98
Cadmium, Total	mg/L	0	30					0.0020	nonpar	***	0.98
Chromium, Total	mg/L	0	30					0.0100	nonpar	***	0.98
Cobalt, Total	ug/L	0	33					5.0000	nonpar	***	0.99
Fluoride	mg/L	36	36	0.2625	0.0678	0.0100	2.4712	0.4299	normal		
Lead, Total	mg/L	0	30					0.0100	nonpar	***	0.98
Lithium, Total	ug/L	5	33					95.5000	nonpar		0.99
Mercury	mg/L	0	30					0.0020	nonpar	***	0.98
Molybdenum, Total	ug/L	8	32					97.8000	nonpar		0.99
Selenium, Total	mg/L	2	33					0.0100	nonpar	***	0.99
Thallium, Total	mg/L	0	30					0.0020	nonpar	***	0.98
Total Radium	pCi/L	17	33					1.5700	nonpar	***	0.99

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**

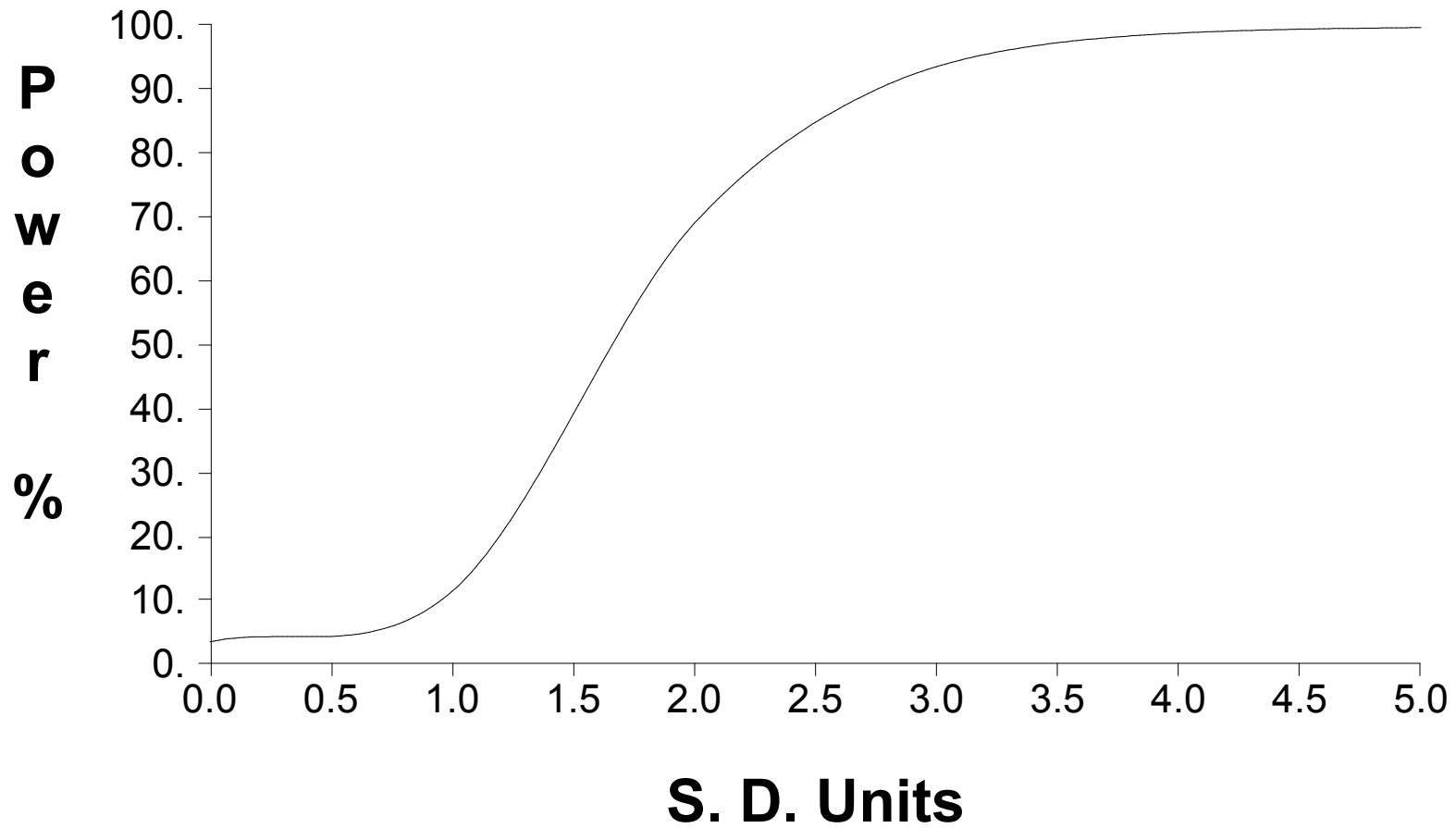
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Barium, Total	mg/L	MW-4S	05/22/2018	0.1980		04/20/2016-05/07/2019	11	0.6736
Molybdenum, Total	ug/L	MW-8S	05/07/2019	36.3000		04/20/2016-05/07/2019	11	0.6736

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.

# 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-4I	04/20/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4I	06/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4I	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4I	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4I	12/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4I	01/31/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4I	05/25/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4I	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4I	05/21/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4I	09/11/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4I	05/07/2019	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9I	04/21/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9I	05/31/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9I	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9I	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9I	11/30/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9I	01/30/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9I	05/24/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9I	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9I	05/21/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9I	09/12/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9I	05/07/2019	ND	0.0010	0.0060	**
Arsenic, Total	mg/L	MW-4I	04/20/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	06/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	12/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	01/31/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	05/25/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4I	05/21/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-4I	09/11/2018		0.0010		
Arsenic, Total	mg/L	MW-4I	05/07/2019		0.0014		

\* - 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	
Arsenic, Total	mg/L	MW-9I	04/21/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	05/31/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	11/30/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	01/30/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	05/24/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9I	05/21/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9I	09/12/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9I	05/07/2019	ND	0.0010	0.0100	**
Barium, Total	mg/L	MW-4I	04/20/2016		0.0786		
Barium, Total	mg/L	MW-4I	06/01/2016		0.0586		
Barium, Total	mg/L	MW-4I	08/11/2016		0.0636		
Barium, Total	mg/L	MW-4I	09/29/2016		0.0615		
Barium, Total	mg/L	MW-4I	12/01/2016		0.0630		
Barium, Total	mg/L	MW-4I	01/31/2017		0.0611		
Barium, Total	mg/L	MW-4I	05/25/2017		0.0600		
Barium, Total	mg/L	MW-4I	08/10/2017		0.0617		
Barium, Total	mg/L	MW-4I	05/21/2018		0.0534		
Barium, Total	mg/L	MW-4I	09/11/2018		0.0584		
Barium, Total	mg/L	MW-4I	05/07/2019		0.0683		
Barium, Total	mg/L	MW-9I	04/21/2016		0.0731		
Barium, Total	mg/L	MW-9I	05/31/2016		0.0675		
Barium, Total	mg/L	MW-9I	08/11/2016		0.0697		
Barium, Total	mg/L	MW-9I	09/29/2016		0.0813		
Barium, Total	mg/L	MW-9I	11/30/2016		0.0615		
Barium, Total	mg/L	MW-9I	01/30/2017		0.0604		
Barium, Total	mg/L	MW-9I	05/24/2017		0.0639		
Barium, Total	mg/L	MW-9I	08/10/2017		0.0678		
Barium, Total	mg/L	MW-9I	05/21/2018		0.0776		
Barium, Total	mg/L	MW-9I	09/12/2018		0.1150		
Barium, Total	mg/L	MW-9I	05/07/2019		0.0676		

\* - 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-4I	04/20/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	06/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	12/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	01/31/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	05/25/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4I	05/21/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-4I	05/07/2019	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9I	04/21/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	05/31/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	11/30/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	01/30/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	05/24/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9I	05/21/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9I	05/07/2019	ND	0.0002	0.0040	**
Cadmium, Total	mg/L	MW-4I	04/20/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	06/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	08/11/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	12/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	01/31/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	05/25/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	05/21/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-4I	05/07/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	04/21/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	05/31/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	08/11/2016	ND	0.0020		

\* - 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	
Cadmium, Total	mg/L	MW-9I	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	11/30/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	01/30/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	05/24/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	05/21/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-9I	05/07/2019	ND	0.0020		
Chromium, Total	mg/L	MW-4I	04/20/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4I	06/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4I	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4I	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4I	12/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4I	01/31/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4I	05/25/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4I	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4I	05/21/2018	ND	0.0100		
Chromium, Total	mg/L	MW-4I	05/07/2019	ND	0.0100		
Chromium, Total	mg/L	MW-9I	04/21/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9I	05/31/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9I	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9I	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9I	11/30/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9I	01/30/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9I	05/24/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9I	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9I	05/21/2018	ND	0.0100		
Chromium, Total	mg/L	MW-9I	05/07/2019	ND	0.0100		
Cobalt, Total	ug/L	MW-4I	04/20/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-4I	06/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	12/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	01/31/2017	ND	5.0000		

\* - 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	ug/L	MW-4I	05/25/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4I	05/21/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-4I	09/11/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-4I	05/07/2019	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9I	04/21/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-9I	05/31/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	11/30/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	01/30/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	05/24/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9I	05/21/2018		1.4000		
Cobalt, Total	ug/L	MW-9I	09/12/2018		1.8000		
Cobalt, Total	ug/L	MW-9I	05/07/2019		1.0000		
Fluoride	mg/L	MW-4I	04/20/2016		0.3500		
Fluoride	mg/L	MW-4I	06/01/2016		0.3100		
Fluoride	mg/L	MW-4I	08/11/2016		0.2900		
Fluoride	mg/L	MW-4I	09/29/2016		0.3100		
Fluoride	mg/L	MW-4I	12/01/2016		0.3400		
Fluoride	mg/L	MW-4I	01/31/2017		0.3200		
Fluoride	mg/L	MW-4I	05/25/2017		0.3400		
Fluoride	mg/L	MW-4I	08/10/2017		0.3200		
Fluoride	mg/L	MW-4I	09/28/2017		0.3400		
Fluoride	mg/L	MW-4I	05/21/2018		0.3300		
Fluoride	mg/L	MW-4I	09/11/2018		0.3000		
Fluoride	mg/L	MW-4I	05/07/2019		0.3600		
Fluoride	mg/L	MW-9I	04/21/2016		0.4100		
Fluoride	mg/L	MW-9I	05/31/2016		0.3800		
Fluoride	mg/L	MW-9I	08/11/2016		0.3600		
Fluoride	mg/L	MW-9I	09/29/2016		0.3600		
Fluoride	mg/L	MW-9I	11/30/2016		0.4400		

\* - 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	
Fluoride	mg/L	MW-9I	01/30/2017		0.3800		
Fluoride	mg/L	MW-9I	05/24/2017		0.4100		
Fluoride	mg/L	MW-9I	08/10/2017		0.3800		
Fluoride	mg/L	MW-9I	09/26/2017		0.4100		
Fluoride	mg/L	MW-9I	05/21/2018		0.3500		
Fluoride	mg/L	MW-9I	09/12/2018		0.2400		
Fluoride	mg/L	MW-9I	05/07/2019		0.4400		
Lead, Total	mg/L	MW-4I	04/20/2016	ND	0.0100		
Lead, Total	mg/L	MW-4I	06/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4I	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-4I	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-4I	12/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4I	01/31/2017	ND	0.0100		
Lead, Total	mg/L	MW-4I	05/25/2017	ND	0.0100		
Lead, Total	mg/L	MW-4I	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-4I	05/21/2018	ND	0.0100		
Lead, Total	mg/L	MW-4I	05/07/2019	ND	0.0100		
Lead, Total	mg/L	MW-9I	04/21/2016	ND	0.0100		
Lead, Total	mg/L	MW-9I	05/31/2016	ND	0.0100		
Lead, Total	mg/L	MW-9I	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-9I	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-9I	11/30/2016	ND	0.0100		
Lead, Total	mg/L	MW-9I	01/30/2017	ND	0.0100		
Lead, Total	mg/L	MW-9I	05/24/2017	ND	0.0100		
Lead, Total	mg/L	MW-9I	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-9I	05/21/2018	ND	0.0100		
Lead, Total	mg/L	MW-9I	05/07/2019	ND	0.0100		
Lithium, Total	ug/L	MW-4I	04/20/2016		25.3000		
Lithium, Total	ug/L	MW-4I	06/01/2016		20.9000		
Lithium, Total	ug/L	MW-4I	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4I	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4I	12/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4I	01/31/2017	ND	20.0000		

\* - 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	
Lithium, Total	ug/L	MW-4I	05/25/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4I	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4I	05/21/2018	ND	20.0000		
Lithium, Total	ug/L	MW-4I	09/11/2018	ND	20.0000		
Lithium, Total	ug/L	MW-4I	05/07/2019	ND	20.0000		
Lithium, Total	ug/L	MW-9I	04/21/2016		20.0000		
Lithium, Total	ug/L	MW-9I	05/31/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9I	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9I	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9I	11/30/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9I	01/30/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9I	05/24/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9I	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9I	05/21/2018	ND	20.0000		
Lithium, Total	ug/L	MW-9I	09/12/2018	ND	20.0000		
Lithium, Total	ug/L	MW-9I	05/07/2019	ND	20.0000		
Mercury	mg/L	MW-4I	04/20/2016	ND	0.0020		
Mercury	mg/L	MW-4I	06/01/2016	ND	0.0020		
Mercury	mg/L	MW-4I	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-4I	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-4I	12/01/2016	ND	0.0020		
Mercury	mg/L	MW-4I	01/31/2017	ND	0.0020		
Mercury	mg/L	MW-4I	05/25/2017	ND	0.0020		
Mercury	mg/L	MW-4I	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-4I	05/21/2018	ND	0.0020		
Mercury	mg/L	MW-4I	05/07/2019	ND	0.0020		
Mercury	mg/L	MW-9I	04/21/2016	ND	0.0020		
Mercury	mg/L	MW-9I	05/31/2016	ND	0.0020		
Mercury	mg/L	MW-9I	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-9I	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-9I	11/30/2016	ND	0.0020		
Mercury	mg/L	MW-9I	01/30/2017	ND	0.0020		
Mercury	mg/L	MW-9I	05/24/2017	ND	0.0020		

\* - 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-9I	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-9I	05/21/2018	ND	0.0020		
Mercury	mg/L	MW-9I	05/07/2019	ND	0.0020		
Molybdenum, Total	ug/L	MW-4I	04/20/2016		20.0000		
Molybdenum, Total	ug/L	MW-4I	06/01/2016		18.8000		
Molybdenum, Total	ug/L	MW-4I	08/11/2016		17.8000		
Molybdenum, Total	ug/L	MW-4I	09/29/2016		16.9000		
Molybdenum, Total	ug/L	MW-4I	12/01/2016		17.1000		
Molybdenum, Total	ug/L	MW-4I	01/31/2017		16.6000		
Molybdenum, Total	ug/L	MW-4I	05/25/2017		14.1000		
Molybdenum, Total	ug/L	MW-4I	08/10/2017		16.3000		
Molybdenum, Total	ug/L	MW-4I	05/21/2018		15.1000		
Molybdenum, Total	ug/L	MW-4I	09/11/2018		11.7000		
Molybdenum, Total	ug/L	MW-4I	05/07/2019		13.5000		
Molybdenum, Total	ug/L	MW-9I	04/21/2016		12.6000		
Molybdenum, Total	ug/L	MW-9I	05/31/2016		13.5000		
Molybdenum, Total	ug/L	MW-9I	08/11/2016		12.7000		
Molybdenum, Total	ug/L	MW-9I	09/29/2016		12.5000		
Molybdenum, Total	ug/L	MW-9I	11/30/2016		13.6000		
Molybdenum, Total	ug/L	MW-9I	01/30/2017		13.3000		
Molybdenum, Total	ug/L	MW-9I	05/24/2017		11.4000		
Molybdenum, Total	ug/L	MW-9I	08/10/2017		13.6000		
Molybdenum, Total	ug/L	MW-9I	05/21/2018		11.6000		
Molybdenum, Total	ug/L	MW-9I	09/12/2018	ND	10.0000		
Molybdenum, Total	ug/L	MW-9I	05/07/2019		14.1000		
Selenium, Total	mg/L	MW-4I	04/20/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4I	06/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4I	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4I	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4I	12/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4I	01/31/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4I	05/25/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4I	08/10/2017	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	
Selenium, Total	mg/L	MW-4I	05/21/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4I	09/11/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4I	05/07/2019	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9I	04/21/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9I	05/31/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9I	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9I	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9I	11/30/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9I	01/30/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9I	05/24/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9I	08/10/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9I	05/21/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9I	09/12/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9I	05/07/2019	ND	0.0010	0.0100	**
Thallium, Total	mg/L	MW-4I	04/20/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-4I	06/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4I	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4I	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4I	12/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4I	01/31/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4I	05/25/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4I	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4I	05/21/2018	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-4I	05/07/2019	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-9I	04/21/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-9I	05/31/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9I	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9I	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9I	11/30/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9I	01/30/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9I	05/24/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9I	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9I	05/21/2018	ND	0.0010	0.0020	**

\* - 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-9I	05/07/2019	ND	0.0010	0.0020	**
Total Radium	pCi/L	MW-4I	04/20/2016		0.9310		
Total Radium	pCi/L	MW-4I	06/01/2016		0.7240		
Total Radium	pCi/L	MW-4I	08/11/2016		1.4300		
Total Radium	pCi/L	MW-4I	09/29/2016		1.5700		
Total Radium	pCi/L	MW-4I	12/01/2016	ND	1.4100	1.4500	**
Total Radium	pCi/L	MW-4I	01/31/2017		1.0200		
Total Radium	pCi/L	MW-4I	05/25/2017		1.1400		
Total Radium	pCi/L	MW-4I	08/10/2017	ND	1.7000	1.4500	**
Total Radium	pCi/L	MW-4I	05/21/2018		0.7360		
Total Radium	pCi/L	MW-4I	09/11/2018		1.2200		
Total Radium	pCi/L	MW-4I	05/07/2019		1.7700		
Total Radium	pCi/L	MW-9I	04/21/2016		0.8350		
Total Radium	pCi/L	MW-9I	05/31/2016	ND	1.4500		
Total Radium	pCi/L	MW-9I	08/11/2016		0.8250		
Total Radium	pCi/L	MW-9I	09/29/2016		0.9530		
Total Radium	pCi/L	MW-9I	11/30/2016	ND	1.2300	1.4500	**
Total Radium	pCi/L	MW-9I	01/30/2017	ND	1.7800	1.4500	**
Total Radium	pCi/L	MW-9I	05/24/2017		1.2200		
Total Radium	pCi/L	MW-9I	08/10/2017		0.8440		
Total Radium	pCi/L	MW-9I	05/21/2018		0.5640		
Total Radium	pCi/L	MW-9I	09/12/2018		1.6300		
Total Radium	pCi/L	MW-9I	05/07/2019		0.8030		

\* - 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-11I	05/08/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-1I	05/08/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-2I	05/09/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-3I	05/09/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-6I	05/08/2019	ND	0.0010		0.0060
Arsenic, Total	mg/L	MW-11I	05/08/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-1I	05/08/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-2I	05/09/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-3I	05/09/2019	ND	0.0010		0.0100
Arsenic, Total	mg/L	MW-6I	05/08/2019	ND	0.0010		0.0100
Barium, Total	mg/L	MW-11I	05/08/2019		0.0651		0.1011
Barium, Total	mg/L	MW-1I	05/08/2019		0.0594		0.1011
Barium, Total	mg/L	MW-2I	05/09/2019		0.0618		0.1011
Barium, Total	mg/L	MW-3I	05/09/2019		0.0582		0.1011
Barium, Total	mg/L	MW-6I	05/08/2019		0.0608		0.1011
Beryllium, Total	mg/L	MW-11I	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-1I	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-2I	05/09/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-3I	05/09/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-6I	05/08/2019	ND	0.0002		0.0040
Cadmium, Total	mg/L	MW-11I	05/08/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1I	05/08/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2I	05/09/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-3I	05/09/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-6I	05/08/2019	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-11I	05/08/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1I	05/08/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2I	05/09/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-3I	05/09/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-6I	05/08/2019	ND	0.0100		0.0100
Cobalt, Total	ug/L	MW-11I	05/08/2019	ND	1.0000		5.0000

\* - 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
Cobalt, Total	ug/L	MW-1I	05/08/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-2I	05/09/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-3I	05/09/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-6I	05/08/2019	ND	1.0000		5.0000
Fluoride	mg/L	MW-11I	05/08/2019		0.3400		0.4762
Fluoride	mg/L	MW-1I	05/08/2019		0.3300		0.4762
Fluoride	mg/L	MW-2I	05/09/2019		0.2900		0.4762
Fluoride	mg/L	MW-3I	05/09/2019		0.2900		0.4762
Fluoride	mg/L	MW-6I	05/08/2019		0.2500		0.4762
Lead, Total	mg/L	MW-11I	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-1I	05/08/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-2I	05/09/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-3I	05/09/2019	ND	0.0100		0.0100
Lead, Total	mg/L	MW-6I	05/08/2019	ND	0.0100		0.0100
Lithium, Total	ug/L	MW-11I	05/08/2019		104.0000	***	25.3000
Lithium, Total	ug/L	MW-1I	05/08/2019		116.0000	***	25.3000
Lithium, Total	ug/L	MW-2I	05/09/2019		86.5000	***	25.3000
Lithium, Total	ug/L	MW-3I	05/09/2019		29.0000	***	25.3000
Lithium, Total	ug/L	MW-6I	05/08/2019		112.0000	***	25.3000
Mercury	mg/L	MW-11I	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-1I	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-2I	05/09/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-3I	05/09/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-6I	05/08/2019	ND	0.0020		0.0020
Molybdenum, Total	ug/L	MW-11I	05/08/2019		169.0000	***	24.0851
Molybdenum, Total	ug/L	MW-1I	05/08/2019		114.0000	***	24.0851
Molybdenum, Total	ug/L	MW-2I	05/09/2019		67.1000	***	24.0851
Molybdenum, Total	ug/L	MW-3I	05/09/2019		91.9000	***	24.0851
Molybdenum, Total	ug/L	MW-6I	05/08/2019		169.0000	***	24.0851
Selenium, Total	mg/L	MW-11I	05/08/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-1I	05/08/2019	ND	0.0010		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
Selenium, Total	mg/L	MW-2I	05/09/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-3I	05/09/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-6I	05/08/2019	ND	0.0010		0.0100
Thallium, Total	mg/L	MW-11I	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-1I	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-2I	05/09/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-3I	05/09/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-6I	05/08/2019	ND	0.0010		0.0020
Total Radium	pCi/L	MW-11I	05/08/2019		1.9900		2.2550
Total Radium	pCi/L	MW-1I	05/08/2019		1.7500		2.2550
Total Radium	pCi/L	MW-2I	05/09/2019		2.4800 *		2.2550
Total Radium	pCi/L	MW-3I	05/09/2019		1.6900		2.2550
Total Radium	pCi/L	MW-6I	05/08/2019		0.7700		2.2550

\* - 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	22	0.000	0	55	0.000
Arsenic, Total	2	22	0.091	0	55	0.000
Barium, Total	22	22	1.000	55	55	1.000
Beryllium, Total	0	20	0.000	0	50	0.000
Cadmium, Total	0	20	0.000	0	50	0.000
Chromium, Total	0	20	0.000	0	50	0.000
Cobalt, Total	3	22	0.136	0	55	0.000
Fluoride	24	24	1.000	60	60	1.000
Lead, Total	0	20	0.000	0	50	0.000
Lithium, Total	3	22	0.136	55	55	1.000
Mercury	0	20	0.000	0	50	0.000
Molybdenum, Total	21	22	0.955	55	55	1.000
Selenium, Total	0	22	0.000	0	55	0.000
Thallium, Total	0	20	0.000	0	50	0.000
Total Radium	17	22	0.773	49	55	0.891

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	22	0.000	4.929	4.929					2.326	non-norm	nonpar
Arsenic, Total	2	22	0.091	6.265	6.167					2.326	non-norm	nonpar
Barium, Total	22	22	1.000	3.142	2.189					2.326	lognor	lognor
Beryllium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Cadmium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Chromium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Cobalt, Total	3	22	0.136	5.382	5.246					2.326	non-norm	nonpar
Fluoride	24	24	1.000	0.567	1.215					2.326	normal	normal
Lead, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Lithium, Total	3	22	0.136	7.120	7.015					2.326	non-norm	nonpar
Mercury	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Molybdenum, Total	21	22	0.955	0.853	0.229					2.326	normal	normal
Selenium, Total	0	22	0.000	4.929	4.929					2.326	non-norm	nonpar
Thallium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Total Radium	17	22	0.773	0.469	0.782					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	22					0.0060	nonpar	***	0.98
Arsenic, Total	mg/L	2	22					0.0100	nonpar	***	0.98
Barium, Total	mg/L	22	22	-2.7033	0.1598	0.0100	2.5735	0.1011	lognor		
Beryllium, Total	mg/L	0	20					0.0040	nonpar	***	0.98
Cadmium, Total	mg/L	0	20					0.0020	nonpar	***	0.98
Chromium, Total	mg/L	0	20					0.0100	nonpar	***	0.98
Cobalt, Total	ug/L	3	22					5.0000	nonpar	***	0.98
Fluoride	mg/L	24	24	0.3529	0.0483	0.0100	2.5508	0.4762	normal		
Lead, Total	mg/L	0	20					0.0100	nonpar	***	0.98
Lithium, Total	ug/L	3	22					25.3000	nonpar		0.98
Mercury	mg/L	0	20					0.0020	nonpar	***	0.98
Molybdenum, Total	ug/L	21	22	13.9455	3.9401	0.0100	2.5735	24.0851	normal		
Selenium, Total	mg/L	0	22					0.0100	nonpar	***	0.98
Thallium, Total	mg/L	0	20					0.0020	nonpar	***	0.98
Total Radium	pCi/L	17	22	0.8280	0.5545	0.0100	2.5735	2.2550	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**

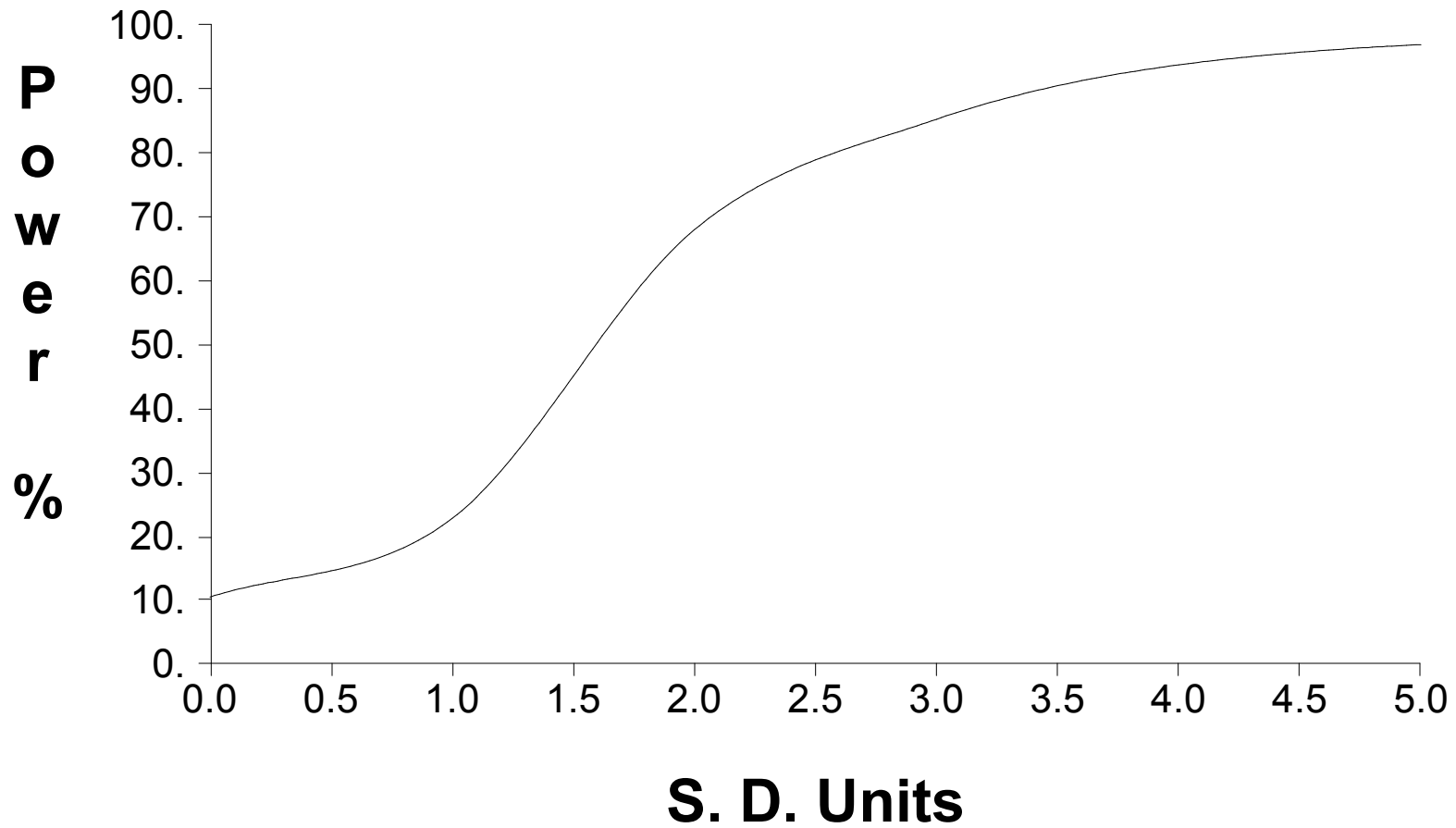
<b>Constituent</b>	<b>Units</b>	<b>Well</b>	<b>Date</b>	<b>Result</b>	<b>ND Qualifier</b>	<b>Date Range</b>	<b>N</b>	<b>Critical Value</b>
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N = Total number of independent measurements in background at each well.

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.

# 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-4D	04/20/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4D	06/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4D	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4D	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4D	12/01/2016	ND	0.0060		
Antimony, Total	mg/L	MW-4D	01/31/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4D	05/25/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4D	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-4D	05/21/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4D	09/11/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-4D	05/07/2019	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9D	04/21/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9D	05/31/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9D	08/11/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9D	09/29/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9D	11/30/2016	ND	0.0060		
Antimony, Total	mg/L	MW-9D	01/30/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9D	05/24/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9D	08/10/2017	ND	0.0060		
Antimony, Total	mg/L	MW-9D	05/21/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9D	09/12/2018	ND	0.0010	0.0060	**
Antimony, Total	mg/L	MW-9D	05/07/2019	ND	0.0010	0.0060	**
Arsenic, Total	mg/L	MW-4D	04/20/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	06/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	12/01/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	01/31/2017		0.0126		
Arsenic, Total	mg/L	MW-4D	05/25/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-4D	05/21/2018		0.0063		
Arsenic, Total	mg/L	MW-4D	09/11/2018		0.0057		
Arsenic, Total	mg/L	MW-4D	05/07/2019		0.0050		

\* - 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	
Arsenic, Total	mg/L	MW-9D	04/21/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	05/31/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	08/11/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	09/29/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	11/30/2016	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	01/30/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	05/24/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	08/10/2017	ND	0.0100		
Arsenic, Total	mg/L	MW-9D	05/21/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9D	09/12/2018	ND	0.0010	0.0100	**
Arsenic, Total	mg/L	MW-9D	05/07/2019	ND	0.0010	0.0100	**
Barium, Total	mg/L	MW-4D	04/20/2016		0.0755		
Barium, Total	mg/L	MW-4D	06/01/2016		0.0465		
Barium, Total	mg/L	MW-4D	08/11/2016		0.0494		
Barium, Total	mg/L	MW-4D	09/29/2016		0.0453		
Barium, Total	mg/L	MW-4D	12/01/2016		0.0513		
Barium, Total	mg/L	MW-4D	01/31/2017		0.0566		
Barium, Total	mg/L	MW-4D	05/25/2017		0.0557		
Barium, Total	mg/L	MW-4D	08/10/2017		0.0593		
Barium, Total	mg/L	MW-4D	05/21/2018		0.0601		
Barium, Total	mg/L	MW-4D	09/11/2018		0.0499		
Barium, Total	mg/L	MW-4D	05/07/2019		0.0568		
Barium, Total	mg/L	MW-9D	04/21/2016		0.0968		
Barium, Total	mg/L	MW-9D	05/31/2016		0.0860		
Barium, Total	mg/L	MW-9D	08/11/2016		0.0836		
Barium, Total	mg/L	MW-9D	09/29/2016		0.0899		
Barium, Total	mg/L	MW-9D	11/30/2016		0.0990		
Barium, Total	mg/L	MW-9D	01/30/2017		0.1090		
Barium, Total	mg/L	MW-9D	05/24/2017		0.1030		
Barium, Total	mg/L	MW-9D	08/10/2017		0.0952		
Barium, Total	mg/L	MW-9D	05/21/2018		0.0964		
Barium, Total	mg/L	MW-9D	09/12/2018		0.0947		
Barium, Total	mg/L	MW-9D	05/07/2019		0.1110		

\* - 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-4D	04/20/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	06/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	12/01/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	01/31/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	05/25/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-4D	05/21/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-4D	05/07/2019	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9D	04/21/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	05/31/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	08/11/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	09/29/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	11/30/2016	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	01/30/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	05/24/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	08/10/2017	ND	0.0040		
Beryllium, Total	mg/L	MW-9D	05/21/2018	ND	0.0002	0.0040	**
Beryllium, Total	mg/L	MW-9D	05/07/2019	ND	0.0002	0.0040	**
Cadmium, Total	mg/L	MW-4D	04/20/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	06/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	08/11/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	12/01/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	01/31/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	05/25/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	05/21/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-4D	05/07/2019	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	04/21/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	05/31/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	08/11/2016	ND	0.0020		

\* - 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	
Cadmium, Total	mg/L	MW-9D	09/29/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	11/30/2016	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	01/30/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	05/24/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	08/10/2017	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	05/21/2018	ND	0.0020		
Cadmium, Total	mg/L	MW-9D	05/07/2019	ND	0.0020		
Chromium, Total	mg/L	MW-4D	04/20/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4D	06/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4D	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4D	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4D	12/01/2016	ND	0.0100		
Chromium, Total	mg/L	MW-4D	01/31/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4D	05/25/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4D	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-4D	05/21/2018	ND	0.0100		
Chromium, Total	mg/L	MW-4D	05/07/2019	ND	0.0100		
Chromium, Total	mg/L	MW-9D	04/21/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9D	05/31/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9D	08/11/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9D	09/29/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9D	11/30/2016	ND	0.0100		
Chromium, Total	mg/L	MW-9D	01/30/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9D	05/24/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9D	08/10/2017	ND	0.0100		
Chromium, Total	mg/L	MW-9D	05/21/2018	ND	0.0100		
Chromium, Total	mg/L	MW-9D	05/07/2019	ND	0.0100		
Cobalt, Total	ug/L	MW-4D	04/20/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-4D	06/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	12/01/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	01/31/2017	ND	5.0000		

\* - 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	ug/L	MW-4D	05/25/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-4D	05/21/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-4D	09/11/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-4D	05/07/2019	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9D	04/21/2016	ND	10.0000	5.0000	**
Cobalt, Total	ug/L	MW-9D	05/31/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	08/11/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	09/29/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	11/30/2016	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	01/30/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	05/24/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	08/10/2017	ND	5.0000		
Cobalt, Total	ug/L	MW-9D	05/21/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9D	09/12/2018	ND	1.0000	5.0000	**
Cobalt, Total	ug/L	MW-9D	05/07/2019	ND	1.0000	5.0000	**
Fluoride	mg/L	MW-4D	04/20/2016		0.2100		
Fluoride	mg/L	MW-4D	06/01/2016		0.1900		
Fluoride	mg/L	MW-4D	08/11/2016		0.1800		
Fluoride	mg/L	MW-4D	09/29/2016		0.2000		
Fluoride	mg/L	MW-4D	12/01/2016		0.2000		
Fluoride	mg/L	MW-4D	01/31/2017		0.2100		
Fluoride	mg/L	MW-4D	05/25/2017		0.2100		
Fluoride	mg/L	MW-4D	08/10/2017		0.2200		
Fluoride	mg/L	MW-4D	09/28/2017		0.2100		
Fluoride	mg/L	MW-4D	05/21/2018		0.2100		
Fluoride	mg/L	MW-4D	09/11/2018		0.2100		
Fluoride	mg/L	MW-4D	05/07/2019		0.2800		
Fluoride	mg/L	MW-9D	04/21/2016		0.1900		
Fluoride	mg/L	MW-9D	05/31/2016		0.1700		
Fluoride	mg/L	MW-9D	08/11/2016		0.1700		
Fluoride	mg/L	MW-9D	09/29/2016		0.1800		
Fluoride	mg/L	MW-9D	11/30/2016		0.2000		

\* - 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	
Fluoride	mg/L	MW-9D	01/30/2017		0.1500		
Fluoride	mg/L	MW-9D	05/24/2017		0.1800		
Fluoride	mg/L	MW-9D	08/10/2017		0.1900		
Fluoride	mg/L	MW-9D	09/26/2017		0.1600		
Fluoride	mg/L	MW-9D	05/21/2018		0.1600		
Fluoride	mg/L	MW-9D	09/12/2018		0.1300		
Fluoride	mg/L	MW-9D	05/07/2019		0.1400		
Lead, Total	mg/L	MW-4D	04/20/2016		0.0105		
Lead, Total	mg/L	MW-4D	06/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4D	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-4D	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-4D	12/01/2016	ND	0.0100		
Lead, Total	mg/L	MW-4D	01/31/2017	ND	0.0100		
Lead, Total	mg/L	MW-4D	05/25/2017	ND	0.0100		
Lead, Total	mg/L	MW-4D	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-4D	05/21/2018	ND	0.0100		
Lead, Total	mg/L	MW-4D	05/07/2019	ND	0.0100		
Lead, Total	mg/L	MW-9D	04/21/2016	ND	0.0100		
Lead, Total	mg/L	MW-9D	05/31/2016	ND	0.0100		
Lead, Total	mg/L	MW-9D	08/11/2016	ND	0.0100		
Lead, Total	mg/L	MW-9D	09/29/2016	ND	0.0100		
Lead, Total	mg/L	MW-9D	11/30/2016	ND	0.0100		
Lead, Total	mg/L	MW-9D	01/30/2017	ND	0.0100		
Lead, Total	mg/L	MW-9D	05/24/2017	ND	0.0100		
Lead, Total	mg/L	MW-9D	08/10/2017	ND	0.0100		
Lead, Total	mg/L	MW-9D	05/21/2018	ND	0.0100		
Lead, Total	mg/L	MW-9D	05/07/2019	ND	0.0100		
Lithium, Total	ug/L	MW-4D	04/20/2016		24.6000		
Lithium, Total	ug/L	MW-4D	06/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4D	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4D	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4D	12/01/2016	ND	20.0000		
Lithium, Total	ug/L	MW-4D	01/31/2017	ND	20.0000		

\* - 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	
Lithium, Total	ug/L	MW-4D	05/25/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4D	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-4D	05/21/2018	ND	20.0000		
Lithium, Total	ug/L	MW-4D	09/11/2018	ND	20.0000		
Lithium, Total	ug/L	MW-4D	05/07/2019	ND	20.0000		
Lithium, Total	ug/L	MW-9D	04/21/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9D	05/31/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9D	08/11/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9D	09/29/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9D	11/30/2016	ND	20.0000		
Lithium, Total	ug/L	MW-9D	01/30/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9D	05/24/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9D	08/10/2017	ND	20.0000		
Lithium, Total	ug/L	MW-9D	05/21/2018	ND	20.0000		
Lithium, Total	ug/L	MW-9D	09/12/2018	ND	20.0000		
Lithium, Total	ug/L	MW-9D	05/07/2019	ND	20.0000		
Mercury	mg/L	MW-4D	04/20/2016	ND	0.0020		
Mercury	mg/L	MW-4D	06/01/2016	ND	0.0020		
Mercury	mg/L	MW-4D	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-4D	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-4D	12/01/2016	ND	0.0020		
Mercury	mg/L	MW-4D	01/31/2017	ND	0.0020		
Mercury	mg/L	MW-4D	05/25/2017	ND	0.0020		
Mercury	mg/L	MW-4D	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-4D	05/21/2018	ND	0.0020		
Mercury	mg/L	MW-4D	05/07/2019	ND	0.0020		
Mercury	mg/L	MW-9D	04/21/2016	ND	0.0020		
Mercury	mg/L	MW-9D	05/31/2016	ND	0.0020		
Mercury	mg/L	MW-9D	08/11/2016	ND	0.0020		
Mercury	mg/L	MW-9D	09/29/2016	ND	0.0020		
Mercury	mg/L	MW-9D	11/30/2016	ND	0.0020		
Mercury	mg/L	MW-9D	01/30/2017	ND	0.0020		
Mercury	mg/L	MW-9D	05/24/2017	ND	0.0020		

\* - 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-9D	08/10/2017	ND	0.0020		
Mercury	mg/L	MW-9D	05/21/2018	ND	0.0020		
Mercury	mg/L	MW-9D	05/07/2019	ND	0.0020		
Molybdenum, Total	ug/L	MW-4D	04/20/2016		31.1000		
Molybdenum, Total	ug/L	MW-4D	06/01/2016		29.0000		
Molybdenum, Total	ug/L	MW-4D	08/11/2016		26.7000		
Molybdenum, Total	ug/L	MW-4D	09/29/2016		24.5000		
Molybdenum, Total	ug/L	MW-4D	12/01/2016		22.9000		
Molybdenum, Total	ug/L	MW-4D	01/31/2017		21.4000		
Molybdenum, Total	ug/L	MW-4D	05/25/2017		18.9000		
Molybdenum, Total	ug/L	MW-4D	08/10/2017		21.3000		
Molybdenum, Total	ug/L	MW-4D	05/21/2018		17.4000		
Molybdenum, Total	ug/L	MW-4D	09/11/2018		13.7000		
Molybdenum, Total	ug/L	MW-4D	05/07/2019		13.5000		
Molybdenum, Total	ug/L	MW-9D	04/21/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	05/31/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	08/11/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	09/29/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	11/30/2016	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	01/30/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	05/24/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	08/10/2017	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	05/21/2018	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	09/12/2018	ND	10.0000		
Molybdenum, Total	ug/L	MW-9D	05/07/2019	ND	10.0000		
Selenium, Total	mg/L	MW-4D	04/20/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4D	06/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4D	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4D	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4D	12/01/2016	ND	0.0100		
Selenium, Total	mg/L	MW-4D	01/31/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4D	05/25/2017	ND	0.0100		
Selenium, Total	mg/L	MW-4D	08/10/2017	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	
Selenium, Total	mg/L	MW-4D	05/21/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4D	09/11/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-4D	05/07/2019	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9D	04/21/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9D	05/31/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9D	08/11/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9D	09/29/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9D	11/30/2016	ND	0.0100		
Selenium, Total	mg/L	MW-9D	01/30/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9D	05/24/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9D	08/10/2017	ND	0.0100		
Selenium, Total	mg/L	MW-9D	05/21/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9D	09/12/2018	ND	0.0010	0.0100	**
Selenium, Total	mg/L	MW-9D	05/07/2019	ND	0.0010	0.0100	**
Thallium, Total	mg/L	MW-4D	04/20/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-4D	06/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4D	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4D	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4D	12/01/2016	ND	0.0020		
Thallium, Total	mg/L	MW-4D	01/31/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4D	05/25/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4D	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-4D	05/21/2018	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-4D	05/07/2019	ND	0.0010	0.0020	**
Thallium, Total	mg/L	MW-9D	04/21/2016	ND	0.0100	0.0020	**
Thallium, Total	mg/L	MW-9D	05/31/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9D	08/11/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9D	09/29/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9D	11/30/2016	ND	0.0020		
Thallium, Total	mg/L	MW-9D	01/30/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9D	05/24/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9D	08/10/2017	ND	0.0020		
Thallium, Total	mg/L	MW-9D	05/21/2018	ND	0.0010	0.0020	**

\* - 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-9D	05/07/2019	ND	0.0010	0.0020	**
Total Radium	pCi/L	MW-4D	04/20/2016		1.0500		
Total Radium	pCi/L	MW-4D	06/01/2016		1.5900		
Total Radium	pCi/L	MW-4D	08/11/2016		0.7140		
Total Radium	pCi/L	MW-4D	09/29/2016		1.7700		
Total Radium	pCi/L	MW-4D	12/01/2016	ND	1.6100	1.6000	**
Total Radium	pCi/L	MW-4D	01/31/2017		0.9740		
Total Radium	pCi/L	MW-4D	05/25/2017		1.3800		
Total Radium	pCi/L	MW-4D	08/10/2017		1.4000		
Total Radium	pCi/L	MW-4D	05/21/2018		1.0800		
Total Radium	pCi/L	MW-4D	09/11/2018		0.8780		
Total Radium	pCi/L	MW-4D	05/07/2019		0.9640		
Total Radium	pCi/L	MW-9D	04/21/2016		0.5560		
Total Radium	pCi/L	MW-9D	05/31/2016		1.2000		
Total Radium	pCi/L	MW-9D	08/11/2016	ND	1.6000		
Total Radium	pCi/L	MW-9D	09/29/2016		1.8500		
Total Radium	pCi/L	MW-9D	11/30/2016	ND	1.5100	1.6000	**
Total Radium	pCi/L	MW-9D	01/30/2017		0.7770		
Total Radium	pCi/L	MW-9D	05/24/2017		1.6800		
Total Radium	pCi/L	MW-9D	08/10/2017	ND	2.6000	1.6000	**
Total Radium	pCi/L	MW-9D	05/21/2018		1.6600		
Total Radium	pCi/L	MW-9D	09/12/2018		1.3500		
Total Radium	pCi/L	MW-9D	05/07/2019		1.6700		

\* - 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-11D	05/08/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-1D	05/08/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-2D	05/09/2019	ND	0.0010		0.0060
Antimony, Total	mg/L	MW-6D	05/08/2019	ND	0.0010		0.0060
Arsenic, Total	mg/L	MW-11D	05/08/2019		0.0051		0.0126
Arsenic, Total	mg/L	MW-1D	05/08/2019		0.0015		0.0126
Arsenic, Total	mg/L	MW-2D	05/09/2019		0.0032		0.0126
Arsenic, Total	mg/L	MW-6D	05/08/2019	ND	0.0010		0.0126
Barium, Total	mg/L	MW-11D	05/08/2019		0.0704		0.1348
Barium, Total	mg/L	MW-1D	05/08/2019		0.0713		0.1348
Barium, Total	mg/L	MW-2D	05/09/2019		0.0486		0.1348
Barium, Total	mg/L	MW-6D	05/08/2019		0.0596		0.1348
Beryllium, Total	mg/L	MW-11D	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-1D	05/08/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-2D	05/09/2019	ND	0.0002		0.0040
Beryllium, Total	mg/L	MW-6D	05/08/2019	ND	0.0002		0.0040
Cadmium, Total	mg/L	MW-11D	05/08/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-1D	05/08/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-2D	05/09/2019	ND	0.0020		0.0020
Cadmium, Total	mg/L	MW-6D	05/08/2019	ND	0.0020		0.0020
Chromium, Total	mg/L	MW-11D	05/08/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-1D	05/08/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-2D	05/09/2019	ND	0.0100		0.0100
Chromium, Total	mg/L	MW-6D	05/08/2019	ND	0.0100		0.0100
Cobalt, Total	ug/L	MW-11D	05/08/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-1D	05/08/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-2D	05/09/2019	ND	1.0000		5.0000
Cobalt, Total	ug/L	MW-6D	05/08/2019	ND	1.0000		5.0000
Fluoride	mg/L	MW-11D	05/08/2019		0.2000		0.2690
Fluoride	mg/L	MW-1D	05/08/2019		0.3500	***	0.2690
Fluoride	mg/L	MW-2D	05/09/2019		0.3200	***	0.2690

\* - 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
Fluoride	mg/L	MW-6D	05/08/2019		0.1600		0.2690
Lead, Total	mg/L	MW-11D	05/08/2019	ND	0.0100		0.0105
Lead, Total	mg/L	MW-1D	05/08/2019	ND	0.0100		0.0105
Lead, Total	mg/L	MW-2D	05/09/2019	ND	0.0100		0.0105
Lead, Total	mg/L	MW-6D	05/08/2019	ND	0.0100		0.0105
Lithium, Total	ug/L	MW-11D	05/08/2019		93.0000	***	24.6000
Lithium, Total	ug/L	MW-1D	05/08/2019		99.7000	***	24.6000
Lithium, Total	ug/L	MW-2D	05/09/2019		86.5000	***	24.6000
Lithium, Total	ug/L	MW-6D	05/08/2019		113.0000	***	24.6000
Mercury	mg/L	MW-11D	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-1D	05/08/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-2D	05/09/2019	ND	0.0020		0.0020
Mercury	mg/L	MW-6D	05/08/2019	ND	0.0020		0.0020
Molybdenum, Total	ug/L	MW-11D	05/08/2019		175.0000	***	41.5683
Molybdenum, Total	ug/L	MW-1D	05/08/2019		122.0000	***	41.5683
Molybdenum, Total	ug/L	MW-2D	05/09/2019		94.8000	***	41.5683
Molybdenum, Total	ug/L	MW-6D	05/08/2019		198.0000	***	41.5683
Selenium, Total	mg/L	MW-11D	05/08/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-1D	05/08/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-2D	05/09/2019	ND	0.0010		0.0100
Selenium, Total	mg/L	MW-6D	05/08/2019	ND	0.0010		0.0100
Thallium, Total	mg/L	MW-11D	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-1D	05/08/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-2D	05/09/2019	ND	0.0010		0.0020
Thallium, Total	mg/L	MW-6D	05/08/2019	ND	0.0010		0.0020
Total Radium	pCi/L	MW-11D	05/08/2019		2.0300		2.5978
Total Radium	pCi/L	MW-1D	05/08/2019		1.3500		2.5978
Total Radium	pCi/L	MW-2D	05/09/2019		1.3600		2.5978
Total Radium	pCi/L	MW-6D	05/08/2019		1.6000		2.5978

\* - 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	22	0.000	0	44	0.000
Arsenic, Total	4	22	0.182	10	44	0.227
Barium, Total	22	22	1.000	44	44	1.000
Beryllium, Total	0	20	0.000	0	40	0.000
Cadmium, Total	0	20	0.000	0	40	0.000
Chromium, Total	0	20	0.000	1	40	0.025
Cobalt, Total	0	22	0.000	1	44	0.023
Fluoride	24	24	1.000	48	48	1.000
Lead, Total	1	20	0.050	2	40	0.050
Lithium, Total	1	22	0.045	44	44	1.000
Mercury	0	20	0.000	0	40	0.000
Molybdenum, Total	11	22	0.500	44	44	1.000
Selenium, Total	0	22	0.000	0	44	0.000
Thallium, Total	0	20	0.000	0	40	0.000
Total Radium	18	22	0.818	41	44	0.932

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	22	0.000	4.929	4.929					2.326	non-norm	nonpar
Arsenic, Total	4	22	0.182	4.159	4.358					2.326	non-norm	nonpar
Barium, Total	22	22	1.000	0.329	0.335					2.326	normal	normal
Beryllium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Cadmium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Chromium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Cobalt, Total	0	22	0.000	4.929	4.929					2.326	non-norm	nonpar
Fluoride	24	24	1.000	1.512	1.545					2.326	normal	normal
Lead, Total	1	20	0.050	4.613	4.613					2.326	non-norm	nonpar
Lithium, Total	1	22	0.045	4.929	4.929					2.326	non-norm	nonpar
Mercury	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Molybdenum, Total	11	22	0.500	1.836	2.321					2.326	normal	normal
Selenium, Total	0	22	0.000	4.929	4.929					2.326	non-norm	nonpar
Thallium, Total	0	20	0.000	4.613	4.613					2.326	non-norm	nonpar
Total Radium	18	22	0.818	1.474	1.807					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	22					0.0060	nonpar	***	0.99
Arsenic, Total	mg/L	4	22					0.0126	nonpar		0.99
Barium, Total	mg/L	22	22	0.0760	0.0229	0.0100	2.5735	0.1348	normal		
Beryllium, Total	mg/L	0	20					0.0040	nonpar	***	0.98
Cadmium, Total	mg/L	0	20					0.0020	nonpar	***	0.98
Chromium, Total	mg/L	0	20					0.0100	nonpar	***	0.98
Cobalt, Total	ug/L	0	22					5.0000	nonpar	***	0.99
Fluoride	mg/L	24	24	0.1896	0.0311	0.0100	2.5508	0.2690	normal		
Lead, Total	mg/L	1	20					0.0105	nonpar		0.98
Lithium, Total	ug/L	1	22					24.6000	nonpar		0.99
Mercury	mg/L	0	20					0.0020	nonpar	***	0.98
Molybdenum, Total	ug/L	11	22	10.9273	11.9065	0.0100	2.5735	41.5683	normal		
Selenium, Total	mg/L	0	22					0.0100	nonpar	***	0.99
Thallium, Total	mg/L	0	20					0.0020	nonpar	***	0.98
Total Radium	pCi/L	18	22	1.0247	0.6113	0.0100	2.5735	2.5978	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.

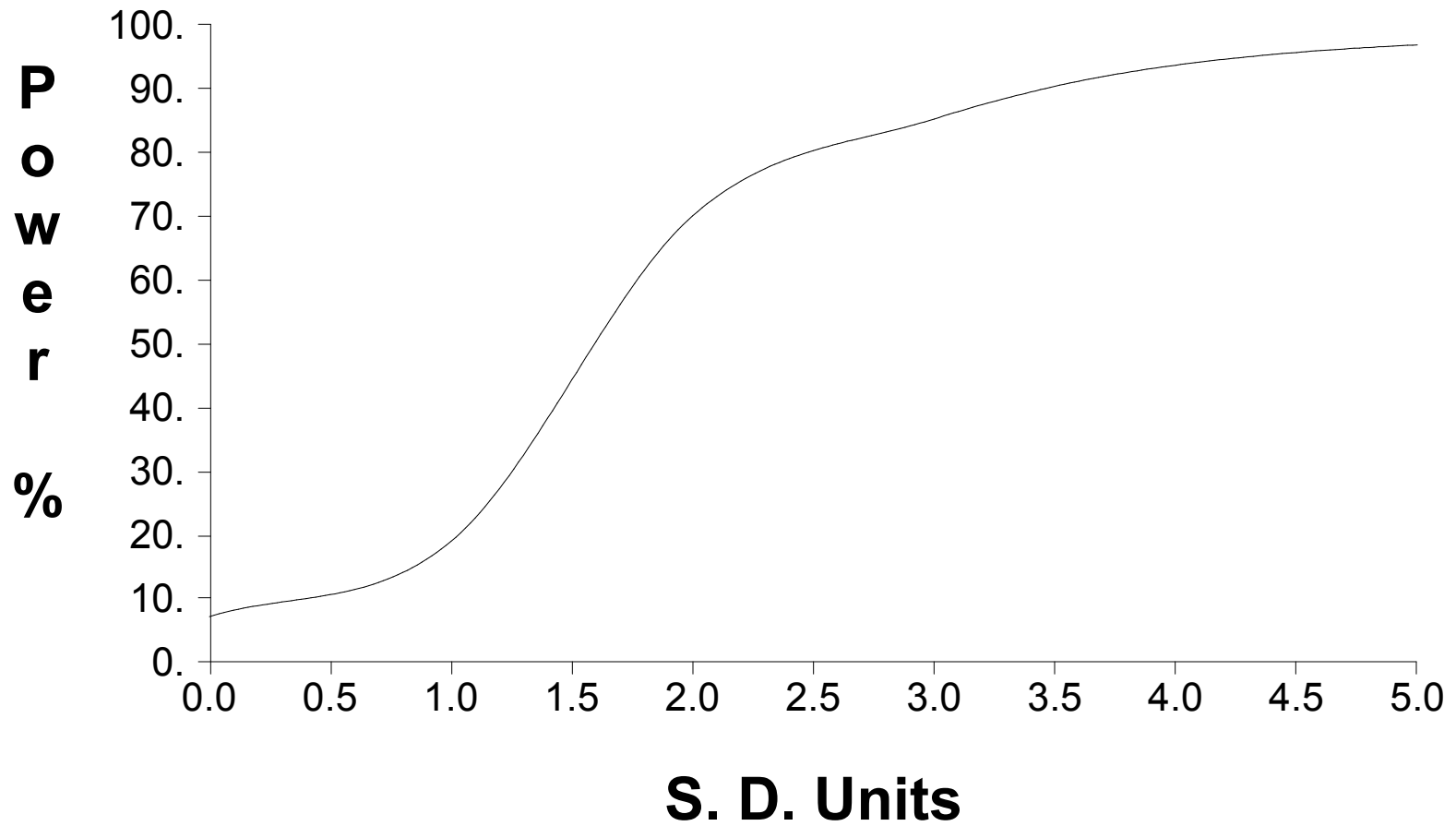
**Table 6**

**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.

# 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  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF00873**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>95.5</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	130	4	2	10	5	0.4299	10	95.5	2	97.8	10	2	1.57
MW-1S	September 2018	3	6	70	2	1	5	2.5	0.249	5	89.667	1	28.867	8	1	0.179
	May 2019	2	4	56	2	1	5	2.5	0.114	5	79.165	1	15.347	9	1	0.195
	November 2019	2	4	55	2	1	5	2.5	0.147	5	79.451	1	16.653	6	1	0.195
	May 2020	2	3	53	2	1	5	2.5	0.150	5	80.189	1	16.100	5	1	0.704
	November 2020	2	3	55	2	1	5	2.5	0.148	5	88.264	1	18.852	3	1	0.705
MW-2S	September 2018	3	0	159	2	1	5	2.5	0.138	5	82.118	1	10.109	2	1	0.787
	May 2019	3	0	182	2	1	5	2.5	0.121	5	82.220	1	0	0	1	0.915
	November 2019	3	1	133	2	1	5	1.243	0.119	5	80.204	1	9.522	0	1	1.011
	May 2020	3	0	132	2	1	5	1.243	0.116	5	80.032	1	5.47	0	1	0.678
	November 2020	3	7	99	2	1	5	1.243	0.123	5	77.000	1	3.854	0	1	0.284
MW-3S	September 2018	3	5	71	2	1	5	2.5	0.269	5	10.077	1	36.566	0	1	0.578
	May 2019	2	5	71	2	1	5	2.5	0.210	5	9.220	1	35.121	1	1	0.621
	November 2019	2	5	71	2	1	5	2.5	0.193	5	6.662	1	30.294	1	1	0.621
	May 2020	2	5	72	2	1	5	2.5	0.202	5	6.648	1	34.252	4	1	0.785
	November 2020	2	5	67	2	1	5	2.5	0.222	5	6.648	1	41.738	4	1	0.802
MW-6S	September 2018	1	5	87	2	1	5	2.5	0.167	5	56.080	1	60.220	1	1	0.390
	May 2019	1	5	60	2	1	5	2.5	0.154	5	26.928	1	37.099	1	1	0.397
	November 2019	1	5	67	2	1	5	2.5	0.154	5	29.301	1	41.627	2	1	0.451
	May 2020	1	5	67	2	1	5	2.5	0.160	5	29.814	1	45.727	1	1	0.542
	November 2020	1	5	75	2	1	5	2.5	0.155	5	30.669	1	43.731	5	1	0.697
MW-7S	September 2018	3	5	103	2	1	5	2.5	0.060	5	<b>108.558</b>	1	<b>132.202</b>	3	1	1.017
	May 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847
	November 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847
	May 2020	2	5	68	2	1	5	2.5	0.030	5	13.035	1	12.109	3	1	0.747
	November 2020	2	2	57	2	1	5	2.332	0.050	5	4.098	1	15.631	6	1	0.299
MW-10S	September 2018	1	5	65	2	1	5	2.5	0.357	5	76.208	1	<b>170.345</b>	3	1	0.722
	May 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	<b>100.416</b>	1	1	0.779
	November 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	<b>100.416</b>	1	1	0.779
	May 2020	1	5	61	2	1	5	2.5	0.247	5	75.161	1	76.448	0	1	0.775
	November 2020	1	5	71	2	1	5	2.5	0.212	5	76.355	1	59.679	0	1	0.875

**Table 1: 95% LCL Compared to GWPS  
Shallow Zone  
Multiunit Ash Pond System  
Indianapolis Power and Light Company  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF00873**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>95.5</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	130	4	2	10	5	0.4299	10	95.5	2	97.8	10	2	1.57
MW-11S	September 2018	2	<b>72</b>	64	2	1	5	2.5	0.272	5	<b>101.369</b>	1	<b>240.525</b>	4	1	0.542
	May 2019	1	<b>60</b>	61	2	1	5	2.5	0.222	5	<b>102.944</b>	1	<b>163.624</b>	5	1	0.710
	November 2019	1	<b>60</b>	61	2	1	5	2.5	0.222	5	<b>102.944</b>	1	<b>163.624</b>	5	1	0.710
	May 2020	2	<b>61</b>	62	2	1	5	2.5	0.212	5	<b>103.225</b>	1	<b>108.327</b>	6	1	0.956
	November 2020	1	<b>58</b>	57	2	1	5	2.5	0.189	5	<b>101.614</b>	1	61.569	4	1	0.786
MW-12S	September 2018	1	1	76	2	1	5	2.5	0.305	5	83.403	1	53.488	2	1	0.378
	May 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289
	November 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289
	May 2020	1	1	85	2	1	5	2.5	0.221	5	86.126	1	37.671	0	1	0.257
	November 2020	1	1	83	2	1	5	2.5	0.219	5	85.287	1	40.495	3	1	0.435

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

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 (page 36444).

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

**Table updated to include November 2020 assessment sampling results.**

**Table 2: 95% LCL Compared to GWPS  
Intermediate Zone  
Multiunit Ash Pond System  
Indianapolis Power and Light Company  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF00873**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>40</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	101.1	4	2	10	5	0.4762	10	25.3	2	24.0851	10	2	2.255
MW-11	September 2018	3	5	49	2	1	5	2.5	0.295	5	<b>90.977</b>	1	99.499	5	1	1.468
	May 2019	3	5	54	2	1	5	2.5	0.287	5	<b>95.151</b>	1	99.201	5	1	1.389
	November 2019	3	5	55	2	1	5	2.5	0.297	5	<b>95.543</b>	1	<b>100.675</b>	5	1	1.333
	May 2020	3	5	54	2	1	5	2.5	0.297	5	<b>95.610</b>	1	<b>101.141</b>	5	1	1.421
	November 2020	3	5	54	2	1	5	2.5	0.312	5	<b>91.878</b>	1	<b>101.062</b>	5	1	1.34
MW-21	September 2018	3	5	54	2	1	5	2.5	0.276	5	<b>68.523</b>	1	58.757	5	1	1.822
	May 2019	3	5	51	2	1	5	2.5	0.270	5	<b>68.634</b>	1	56.590	5	1	1.620
	November 2019	3	5	55	2	1	5	2.5	0.268	5	<b>69.665</b>	1	55.609	5	1	1.642
	May 2020	3	5	55	2	1	5	2.5	0.271	5	<b>69.042</b>	1	56.957	5	1	1.988
	November 2020	3	5	59	2	1	5	2.5	0.283	5	<b>63.545</b>	1	62.021	5	1	1.177
MW-31	September 2018	3	5	55	2	1	5	2.5	0.253	5	36.266	1	54.444	5	1	1.310
	May 2019	3	5	53	2	1	5	2.5	0.255	5	22.662	1	60.185	5	1	1.032
	November 2019	3	5	51	2	1	5	2.5	0.255	5	9.759	1	73.297	5	1	0.919
	May 2020	3	5	52	2	1	5	2.5	0.255	5	11.269	1	73.503	5	1	0.926
	November 2020	3	5	53	2	1	5	2.5	0.283	5	6.642	1	69.134	5	1	0.839
MW-61	September 2018	3	5	39	2	1	5	2.5	0.220	5	<b>87.713</b>	1	<b>173.703</b>	5	1	1.870
	May 2019	3	5	39	2	1	5	2.5	0.207	5	<b>88.502</b>	1	<b>162.008</b>	5	1	0.817
	November 2019	3	5	39	2	1	5	2.5	0.225	5	<b>89.538</b>	1	<b>155.270</b>	5	1	0.893
	May 2020	3	5	44	2	1	5	2.5	0.241	5	<b>89.985</b>	1	<b>169.841</b>	5	1	0.848
	November 2020	3	5	49	2	1	5	2.5	0.235	5	<b>99.601</b>	1	<b>167.176</b>	5	1	0.709
MW-111	September 2018	3	5	64	2	1	5	2.5	0.303	5	<b>104.856</b>	1	<b>164.551</b>	5	1	1.823
	May 2019	3	5	63	2	1	5	2.5	0.293	5	<b>103.556</b>	1	<b>163.193</b>	5	1	1.727
	November 2019	3	2	62	2	1	5	2.5	0.296	5	<b>101.843</b>	1	<b>157.499</b>	5	1	1.198
	May 2020	3	0	56	2	1	5	2.5	0.29	5	<b>100.971</b>	1	<b>157.499</b>	5	1	1.053
	November 2020	3	0	45	2	1	5	2.5	0.328	5	<b>94.623</b>	1	<b>157.226</b>	5	1	0.886

Notes:  
MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations  
GWPS - Groundwater Protection Standard  
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 (page 36444).  
Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.  
**Table updated to include November 2020 assessment sampling results.**



**Table 3: 95% LCL Compared to GWPS  
Deep Zone  
Multiunit Ash Pond System  
Indianapolis Power and Light Company  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF00873**

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)	<b>6</b>	<b>12.6</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>40</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	12.6	134.8	4	2	10	5	0.269	10.5	24.6	2	41.5683	10	2	2.5978
MW-1D	September 2018	3	1	68	2	1	5	2.5	0.322	5	<b>88.543</b>	1	<b>107.001</b>	5	1	1.191
	May 2019	3	0	68	2	1	5	2.5	0.313	5	<b>88.724</b>	1	<b>106.551</b>	5	1	1.241
	November 2019	3	1	67	2	1	5	2.5	0.325	5	<b>87.806</b>	1	<b>106.551</b>	5	1	0.852
	May 2020	3	1	65	2	1	5	2.5	0.325	5	<b>87.616</b>	1	<b>112.025</b>	5	1	0.884
	November 2020	3	1	59	2	1	5	2.5	0.353	5	<b>83.667</b>	1	<b>113.599</b>	5	1	0.741
MW-2D	September 2018	3	3	42	2	1	5	2.5	0.290	5	<b>72.668</b>	1	<b>103.757</b>	5	1	1.668
	May 2019	3	3	40	2	1	5	2.5	0.289	5	<b>71.147</b>	1	92.570	5	1	1.351
	November 2019	3	3	42	2	1	5	2.5	0.295	5	<b>69.227</b>	1	85.261	5	1	1.382
	May 2020	3	3	42	2	1	5	2.5	0.293	5	<b>68.124</b>	1	90.588	5	1	1.387
	November 2020	3	3	48	2	1	5	2.5	0.32	5	<b>55.784</b>	1	78.723	5	1	0.953
MW-6D	September 2018	3	5	48	2	1	5	2.5	0.107	5	<b>90.432</b>	1	<b>192.856</b>	5	1	0.758
	May 2019	3	5	48	2	1	5	2.5	0.107	5	<b>92.149</b>	1	<b>190.163</b>	5	1	1.004
	November 2019	3	5	48	2	1	5	2.5	0.112	5	<b>90.092</b>	1	<b>176.356</b>	5	1	0.968
	May 2020	3	5	51	2	1	5	2.5	0.117	5	<b>88.906</b>	1	<b>176.534</b>	5	1	1.265
	November 2020	3	5	50	2	1	5	2.5	0.129	5	<b>82.687</b>	1	<b>175.267</b>	5	1	1.098
MW-11D	September 2018	3	0	30	2	1	0	0	0.168	0	<b>75.647</b>	1	<b>160.572</b>	5	1	0.976
	May 2019	3	5	67	2	1	0	0	0.173	0	<b>83.997</b>	1	<b>158.480</b>	5	1	0.936
	November 2019	3	5	68	2	1	0	0	0.175	0	<b>84.526</b>	1	<b>153.252</b>	5	1	0.901
	May 2020	3	5	64	2	1	5	2.5	0.169	5	<b>84.647</b>	1	<b>155.670</b>	5	1	0.778
	November 2020	3	5	54	2	1	5	2.5	0.192	5	<b>86.900</b>	1	<b>163.226</b>	5	1	0.763

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

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 Combust

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

**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	0.002	0.001	1.176	0.001	0.003	0.006		
Antimony, Total	mg/L	MW-11S	4	0.002	0.000	1.176	0.001	0.002	0.006		
Antimony, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.002	0.006		
Antimony, Total	mg/L	MW-1S	4	0.003	0.001	1.176	0.002	0.004	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	0.003	0.001	1.176	0.002	0.004	0.006		
Antimony, Total	mg/L	MW-6S	4	0.002	0.001	1.176	0.001	0.003	0.006		
Antimony, Total	mg/L	MW-7S	4	0.003	0.001	1.176	0.002	0.003	0.006		
Arsenic, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-11S	4	0.098	0.034	1.176	0.058	0.138	0.010		**
Arsenic, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.002	0.010		
Arsenic, Total	mg/L	MW-1S	4	0.006	0.003	1.176	0.003	0.010	0.010		
Arsenic, Total	mg/L	MW-2S	4	0.012	0.004	1.176	0.007	0.016	0.010		
Arsenic, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.010		
Arsenic, Total	mg/L	MW-7S	4	0.004	0.002	1.176	0.002	0.006	0.010		
Barium, Total	mg/L	MW-10S	4	0.087	0.013	1.176	0.071	0.102	2.000		
Barium, Total	mg/L	MW-11S	4	0.092	0.029	1.176	0.057	0.126	2.000		
Barium, Total	mg/L	MW-12S	4	0.110	0.023	1.176	0.083	0.137	2.000		
Barium, Total	mg/L	MW-1S	4	0.081	0.022	1.176	0.055	0.107	2.000		
Barium, Total	mg/L	MW-2S	4	0.161	0.053	1.176	0.099	0.224	2.000		
Barium, Total	mg/L	MW-3S	4	0.096	0.025	1.176	0.067	0.125	2.000		
Barium, Total	mg/L	MW-6S	4	0.104	0.025	1.176	0.075	0.133	2.000		
Barium, Total	mg/L	MW-7S	4	0.081	0.020	1.176	0.057	0.105	2.000	dec	
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	0.000	1.176	0.002	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-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-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		

\* - 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-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-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-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	
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	0.005	0.000	1.176	0.005	0.005	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-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-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	
Cobalt, Total	ug/L	MW-10S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-11S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-12S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-1S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-2S	4	2.125	0.750	1.176	1.243	3.007	6.000	
Cobalt, Total	ug/L	MW-3S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-6S	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-7S	4	2.450	0.100	1.176	2.332	2.568	6.000	
Fluoride	mg/L	MW-10S	4	0.283	0.060	1.176	0.212	0.353	4.000	
Fluoride	mg/L	MW-11S	4	0.235	0.039	1.176	0.189	0.281	4.000	dec
Fluoride	mg/L	MW-12S	4	0.273	0.046	1.176	0.219	0.326	4.000	dec
Fluoride	mg/L	MW-1S	4	0.230	0.070	1.176	0.148	0.312	4.000	dec
Fluoride	mg/L	MW-2S	4	0.148	0.021	1.176	0.123	0.172	4.000	dec
Fluoride	mg/L	MW-3S	4	0.328	0.090	1.176	0.222	0.433	4.000	
Fluoride	mg/L	MW-6S	4	0.208	0.045	1.176	0.155	0.260	4.000	
Fluoride	mg/L	MW-7S	4	0.050	0.000	1.176	0.050	0.050	4.000	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	
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	0.005	0.000	1.176	0.005	0.005	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-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-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		
Lithium, Total	ug/L	MW-10S	4	95.750	16.489	1.176	76.355	115.145	95.500		
Lithium, Total	ug/L	MW-11S	4	116.750	12.868	1.176	101.614	131.886	95.500		**
Lithium, Total	ug/L	MW-12S	4	106.625	18.140	1.176	85.287	127.963	95.500		
Lithium, Total	ug/L	MW-1S	4	109.100	17.714	1.176	88.264	129.936	95.500		
Lithium, Total	ug/L	MW-2S	4	90.325	11.328	1.176	77.000	103.650	95.500		
Lithium, Total	ug/L	MW-3S	4	18.525	10.097	1.176	6.648	30.402	95.500	dec	
Lithium, Total	ug/L	MW-6S	4	67.325	31.162	1.176	30.669	103.981	95.500		
Lithium, Total	ug/L	MW-7S	4	47.625	37.003	1.176	4.098	91.152	95.500	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-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-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		
Molybdenum, Total	ug/L	MW-10S	4	114.950	46.987	1.176	59.679	170.221	100.000		
Molybdenum, Total	ug/L	MW-11S	4	145.250	71.140	1.176	61.569	228.931	100.000		
Molybdenum, Total	ug/L	MW-12S	4	58.400	15.222	1.176	40.495	76.305	100.000	dec	
Molybdenum, Total	ug/L	MW-1S	4	41.175	18.978	1.176	18.852	63.498	100.000		
Molybdenum, Total	ug/L	MW-2S	4	8.025	3.546	1.176	3.854	12.196	100.000	dec	
Molybdenum, Total	ug/L	MW-3S	4	60.550	15.993	1.176	41.738	79.362	100.000		
Molybdenum, Total	ug/L	MW-6S	4	109.575	55.976	1.176	43.731	175.419	100.000		
Molybdenum, Total	ug/L	MW-7S	4	62.000	39.420	1.176	15.631	108.369	100.000		

\* - 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
Selenium, Total	mg/L	MW-10S	4	0.005	0.005	1.176	0.000	0.011	0.050	
Selenium, Total	mg/L	MW-11S	4	0.008	0.004	1.176	0.004	0.013	0.050	
Selenium, Total	mg/L	MW-12S	4	0.023	0.017	1.176	0.003	0.043	0.050	
Selenium, Total	mg/L	MW-1S	4	0.011	0.007	1.176	0.003	0.019	0.050	
Selenium, Total	mg/L	MW-2S	4	0.035	0.042	1.176	0.000	0.085	0.050	
Selenium, Total	mg/L	MW-3S	4	0.006	0.002	1.176	0.004	0.008	0.050	
Selenium, Total	mg/L	MW-6S	4	0.009	0.004	1.176	0.005	0.014	0.050	
Selenium, Total	mg/L	MW-7S	4	0.012	0.005	1.176	0.006	0.019	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-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-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	
Total Radium	pCi/L	MW-10S	4	1.372	0.423	1.176	0.875	1.869	5.000	
Total Radium	pCi/L	MW-11S	4	0.993	0.176	1.176	0.786	1.200	5.000	
Total Radium	pCi/L	MW-12S	4	1.061	0.533	1.176	0.435	1.688	5.000	
Total Radium	pCi/L	MW-1S	4	0.870	0.140	1.176	0.705	1.035	5.000	
Total Radium	pCi/L	MW-2S	4	1.570	1.093	1.176	0.284	2.855	5.000	
Total Radium	pCi/L	MW-3S	4	0.886	0.071	1.176	0.802	0.969	5.000	
Total Radium	pCi/L	MW-6S	4	1.111	0.351	1.176	0.697	1.524	5.000	
Total Radium	pCi/L	MW-7S	4	1.664	1.160	1.176	0.299	3.028	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-11I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-1I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-2I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-3I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-6I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Arsenic, Total	mg/L	MW-11I	4	0.002	0.002	1.176	0.000	0.004	0.010	
Arsenic, Total	mg/L	MW-1I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Barium, Total	mg/L	MW-11I	4	0.057	0.010	1.176	0.045	0.069	2.000	dec
Barium, Total	mg/L	MW-1I	4	0.057	0.002	1.176	0.054	0.059	2.000	
Barium, Total	mg/L	MW-2I	4	0.064	0.004	1.176	0.059	0.069	2.000	
Barium, Total	mg/L	MW-3I	4	0.057	0.004	1.176	0.053	0.061	2.000	dec
Barium, Total	mg/L	MW-6I	4	0.055	0.005	1.176	0.049	0.061	2.000	
Beryllium, Total	mg/L	MW-11I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-1I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-2I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-3I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-6I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Cadmium, Total	mg/L	MW-11I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-1I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Chromium, Total	mg/L	MW-11I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-1I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Cobalt, Total	ug/L	MW-11I	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-1I	4	2.500	0.000	1.176	2.500	2.500	6.000	

\* - 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	
Cobalt, Total	ug/L	MW-2I	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-3I	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-6I	4	2.500	0.000	1.176	2.500	2.500	6.000		
Fluoride	mg/L	MW-11I	4	0.373	0.038	1.176	0.328	0.417	4.000		
Fluoride	mg/L	MW-1I	4	0.335	0.019	1.176	0.312	0.358	4.000	dec	
Fluoride	mg/L	MW-2I	4	0.295	0.010	1.176	0.283	0.307	4.000	dec	
Fluoride	mg/L	MW-3I	4	0.300	0.014	1.176	0.283	0.317	4.000		
Fluoride	mg/L	MW-6I	4	0.260	0.022	1.176	0.235	0.285	4.000		
Lead, Total	mg/L	MW-11I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-1I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	ug/L	MW-11I	4	100.300	4.826	1.176	94.623	105.977	40.000	dec	**
Lithium, Total	ug/L	MW-1I	4	103.600	9.965	1.176	91.878	115.322	40.000		**
Lithium, Total	ug/L	MW-2I	4	75.975	10.567	1.176	63.545	88.405	40.000	dec	**
Lithium, Total	ug/L	MW-3I	4	17.575	9.295	1.176	6.642	28.508	40.000	dec	**
Lithium, Total	ug/L	MW-6I	4	111.450	10.074	1.176	99.601	123.299	40.000	dec	**
Mercury	mg/L	MW-11I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-1I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	ug/L	MW-11I	4	164.750	6.397	1.176	157.226	172.274	100.000		**
Molybdenum, Total	ug/L	MW-1I	4	107.975	5.877	1.176	101.062	114.888	100.000	dec	**
Molybdenum, Total	ug/L	MW-2I	4	64.425	2.043	1.176	62.021	66.829	100.000	dec	**
Molybdenum, Total	ug/L	MW-3I	4	80.075	9.301	1.176	69.134	91.016	100.000		**
Molybdenum, Total	ug/L	MW-6I	4	197.750	25.992	1.176	167.176	228.324	100.000		**
Selenium, Total	mg/L	MW-11I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-1I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.050		

\* - 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
Selenium, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.050	
Thallium, Total	mg/L	MW-11I	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-1I	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.002	
Thallium, Total	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.002	
Total Radium	pCi/L	MW-11I	4	1.380	0.420	1.176	0.886	1.874	5.000	
Total Radium	pCi/L	MW-1I	4	1.703	0.308	1.176	1.340	2.065	5.000	
Total Radium	pCi/L	MW-2I	4	2.050	0.742	1.176	1.177	2.923	5.000	
Total Radium	pCi/L	MW-3I	4	1.316	0.405	1.176	0.839	1.793	5.000	
Total Radium	pCi/L	MW-6I	4	1.358	0.551	1.176	0.709	2.006	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
Antimony, Total	mg/L	MW-11D	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-6D	4	0.003	0.000	1.176	0.003	0.003	0.006	
Arsenic, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.006	0.013	
Arsenic, Total	mg/L	MW-1D	4	0.003	0.001	1.176	0.001	0.004	0.013	
Arsenic, Total	mg/L	MW-2D	4	0.004	0.000	1.176	0.003	0.004	0.013	
Arsenic, Total	mg/L	MW-6D	4	0.005	0.000	1.176	0.005	0.005	0.013	
Barium, Total	mg/L	MW-11D	4	0.064	0.009	1.176	0.054	0.074	2.000	dec
Barium, Total	mg/L	MW-1D	4	0.067	0.007	1.176	0.059	0.075	2.000	
Barium, Total	mg/L	MW-2D	4	0.055	0.006	1.176	0.048	0.062	2.000	
Barium, Total	mg/L	MW-6D	4	0.058	0.006	1.176	0.050	0.065	2.000	
Beryllium, Total	mg/L	MW-11D	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-6D	4	0.002	0.000	1.176	0.002	0.002	0.004	
Cadmium, Total	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.005	
Chromium, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.100	
Cobalt, Total	ug/L	MW-11D	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-1D	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-2D	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-6D	4	2.500	0.000	1.176	2.500	2.500	6.000	
Fluoride	mg/L	MW-11D	4	0.223	0.026	1.176	0.192	0.253	4.000	
Fluoride	mg/L	MW-1D	4	0.365	0.010	1.176	0.353	0.377	4.000	
Fluoride	mg/L	MW-2D	4	0.335	0.013	1.176	0.320	0.350	4.000	dec
Fluoride	mg/L	MW-6D	4	0.150	0.018	1.176	0.129	0.171	4.000	

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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	
Lead, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	ug/L	MW-11D	4	91.450	3.868	1.176	86.900	96.000	40.000		**
Lithium, Total	ug/L	MW-1D	4	91.850	6.956	1.176	83.667	100.033	40.000		**
Lithium, Total	ug/L	MW-2D	4	72.525	14.232	1.176	55.784	89.266	40.000	dec	**
Lithium, Total	ug/L	MW-6D	4	97.750	12.805	1.176	82.687	112.813	40.000	dec	**
Mercury	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	ug/L	MW-11D	4	170.750	6.397	1.176	163.226	178.274	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	4	118.000	3.742	1.176	113.599	122.401	100.000		**
Molybdenum, Total	ug/L	MW-2D	4	89.025	8.758	1.176	78.723	99.327	100.000		**
Molybdenum, Total	ug/L	MW-6D	4	192.750	14.863	1.176	175.267	210.233	100.000		**
Selenium, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Thallium, Total	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-11D	4	1.359	0.507	1.176	0.763	1.955	5.000		
Total Radium	pCi/L	MW-1D	4	1.595	0.726	1.176	0.741	2.448	5.000		
Total Radium	pCi/L	MW-2D	4	1.658	0.599	1.176	0.953	2.363	5.000		
Total Radium	pCi/L	MW-6D	4	1.448	0.297	1.176	1.098	1.797	5.000		

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 \*\* - Significant Exceedance  
 LCL = Lower Confidence Limit  
 UCL = Upper Confidence Limit

**May 2021**

**Table 1: 95% LCL Compared to GWPS  
Shallow Zone  
Multiunit Ash Pond System  
AES Indiana  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF01114**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>95.5</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	130	4	2	10	5	0.4299	10	95.5	2	97.8	10	2	1.57
MW-1S	September 2018	3	6	70	2	1	5	2.5	0.249	5	89.667	1	28.867	8	1	0.179
	May 2019	2	4	56	2	1	5	2.5	0.114	5	79.165	1	15.347	9	1	0.195
	November 2019	2	4	55	2	1	5	2.5	0.147	5	79.451	1	16.653	6	1	0.195
	May 2020	2	3	53	2	1	5	2.5	0.150	5	80.189	1	16.100	5	1	0.704
	November 2020	2	3	55	2	1	5	2.5	0.148	5	88.264	1	18.852	3	1	0.705
	May 2021	2	4	66	2	1	5	2.5	0.082	5	77.220	1	21.985	2	1	0.800
MW-2S	September 2018	3	0	159	2	1	5	2.5	0.138	5	82.118	1	10.109	2	1	0.787
	May 2019	3	0	182	2	1	5	2.5	0.121	5	82.220	1	0	0	1	0.915
	November 2019	3	1	133	2	1	5	1.243	0.119	5	80.204	1	9.522	0	1	1.011
	May 2020	3	0	132	2	1	5	1.243	0.116	5	80.032	1	5.47	0	1	0.678
	November 2020	3	7	99	2	1	5	1.243	0.123	5	77.000	1	3.854	0	1	0.284
	May 2021	3	8	89	2	1	5	1.243	0.105	5	47.696	1	3.499	0	1	0.170
MW-3S	September 2018	3	5	71	2	1	5	2.5	0.269	5	10.077	1	36.566	0	1	0.578
	May 2019	2	5	71	2	1	5	2.5	0.210	5	9.220	1	35.121	1	1	0.621
	November 2019	2	5	71	2	1	5	2.5	0.193	5	6.662	1	30.294	1	1	0.621
	May 2020	2	5	72	2	1	5	2.5	0.202	5	6.648	1	34.252	4	1	0.785
	November 2020	2	5	67	2	1	5	2.5	0.222	5	6.648	1	41.738	4	1	0.802
	May 2021	3	5	69	2	1	5	2.5	0.300	5	5.165	1	54.170	5	1	0.850
MW-6S	September 2018	1	5	87	2	1	5	2.5	0.167	5	56.080	1	60.220	1	1	0.390
	May 2019	1	5	60	2	1	5	2.5	0.154	5	26.928	1	37.099	1	1	0.397
	November 2019	1	5	67	2	1	5	2.5	0.154	5	29.301	1	41.627	2	1	0.451
	May 2020	1	5	67	2	1	5	2.5	0.160	5	29.814	1	45.727	1	1	0.542
	November 2020	1	5	75	2	1	5	2.5	0.155	5	30.669	1	43.731	5	1	0.697
	May 2021	1	5	93	2	1	5	2.5	0.165	5	74.534	1	97.661	7	1	0.653
MW-7S	September 2018	3	5	103	2	1	5	2.5	0.060	5	<b>108.558</b>	1	<b>132.202</b>	3	1	1.017
	May 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847
	November 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847
	May 2020	2	5	68	2	1	5	2.5	0.030	5	13.035	1	12.109	3	1	0.747
	November 2020	2	2	57	2	1	5	2.332	0.050	5	4.098	1	15.631	6	1	0.299
	May 2021	2	2	56	2	1	5	2.332	0.050	5	26.464	1	38.333	6	1	0.142

**Table 1: 95% LCL Compared to GWPS  
Shallow Zone  
Multiunit Ash Pond System  
AES Indiana  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF01114**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>95.5</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	130	4	2	10	5	0.4299	10	95.5	2	97.8	10	2	1.57
MW-10S	September 2018	1	5	65	2	1	5	2.5	0.357	5	76.208	1	<b>170.345</b>	3	1	0.722
	May 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	<b>100.416</b>	1	1	0.779
	November 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	<b>100.416</b>	1	1	0.779
	May 2020	1	5	61	2	1	5	2.5	0.247	5	75.161	1	76.448	0	1	0.775
	November 2020	1	5	71	2	1	5	2.5	0.212	5	76.355	1	59.679	0	1	0.875
	May 2021	2	5	77	2	1	5	2.5	0.205	5	91.428	1	85.547	0	1	0.788
MW-11S	September 2018	2	<b>72</b>	64	2	1	5	2.5	0.272	5	<b>101.369</b>	1	<b>240.525</b>	4	1	0.542
	May 2019	1	<b>60</b>	61	2	1	5	2.5	0.222	5	<b>102.944</b>	1	<b>163.624</b>	5	1	0.710
	November 2019	1	<b>60</b>	61	2	1	5	2.5	0.222	5	<b>102.944</b>	1	<b>163.624</b>	5	1	0.710
	May 2020	2	<b>61</b>	62	2	1	5	2.5	0.212	5	<b>103.225</b>	1	<b>108.327</b>	6	1	0.956
	November 2020	1	<b>58</b>	57	2	1	5	2.5	0.189	5	<b>101.614</b>	1	61.569	4	1	0.786
	May 2021	1	<b>80</b>	77	2	1	5	2.5	0.166	5	<b>103.787</b>	1	58.408	4	1	0.658
MW-12S	September 2018	1	1	76	2	1	5	2.5	0.305	5	83.403	1	53.488	2	1	0.378
	May 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289
	November 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289
	May 2020	1	1	85	2	1	5	2.5	0.221	5	86.126	1	37.671	0	1	0.257
	November 2020	1	1	83	2	1	5	2.5	0.219	5	85.287	1	40.495	3	1	0.435
	May 2021	1	0	100	2	1	5	2.5	0.221	5	<b>99.225</b>	1	41.986	10	1	0.795

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

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 (page 36444).

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

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  
Intermediate Zone  
Multiunit Ash Pond System  
AES Indiana  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF01114**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>40</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	101.1	4	2	10	5	0.4762	10	25.3	2	24.0851	10	2	2.255
MW-11	September 2018	3	5	49	2	1	5	2.5	0.295	5	<b>90.977</b>	1	99.499	5	1	1.468
	May 2019	3	5	54	2	1	5	2.5	0.287	5	<b>95.151</b>	1	99.201	5	1	1.389
	November 2019	3	5	55	2	1	5	2.5	0.297	5	<b>95.543</b>	1	<b>100.675</b>	5	1	1.333
	May 2020	3	5	54	2	1	5	2.5	0.297	5	<b>95.610</b>	1	<b>101.141</b>	5	1	1.421
	November 2020	3	5	54	2	1	5	2.5	0.312	5	<b>91.878</b>	1	<b>101.062</b>	5	1	1.34
May 2021	3	5	54	2	1	5	2.5	0.267	5	<b>86.999</b>	1	96.761	5	1	1.358	
MW-21	September 2018	3	5	54	2	1	5	2.5	0.276	5	<b>68.523</b>	1	58.757	5	1	1.822
	May 2019	3	5	51	2	1	5	2.5	0.270	5	<b>68.634</b>	1	56.590	5	1	1.620
	November 2019	3	5	55	2	1	5	2.5	0.268	5	<b>69.665</b>	1	55.609	5	1	1.642
	May 2020	3	5	55	2	1	5	2.5	0.271	5	<b>69.042</b>	1	56.957	5	1	1.988
	November 2020	3	5	59	2	1	5	2.5	0.283	5	<b>63.545</b>	1	62.021	5	1	1.177
May 2021	3	5	58	2	1	5	2.5	0.198	5	<b>56.314</b>	1	62.455	5	1	0.875	
MW-31	September 2018	3	5	55	2	1	5	2.5	0.253	5	36.266	1	54.444	5	1	1.310
	May 2019	3	5	53	2	1	5	2.5	0.255	5	22.662	1	60.185	5	1	1.032
	November 2019	3	5	51	2	1	5	2.5	0.255	5	9.759	1	73.297	5	1	0.919
	May 2020	3	5	52	2	1	5	2.5	0.255	5	11.269	1	73.503	5	1	0.926
	November 2020	3	5	53	2	1	5	2.5	0.283	5	6.642	1	69.134	5	1	0.839
May 2021	3	5	44	2	1	5	2.5	0.182	5	6.179	1	60.599	5	1	0.734	
MW-61	September 2018	3	5	39	2	1	5	2.5	0.220	5	<b>87.713</b>	1	<b>173.703</b>	5	1	1.870
	May 2019	3	5	39	2	1	5	2.5	0.207	5	<b>88.502</b>	1	<b>162.008</b>	5	1	0.817
	November 2019	3	5	39	2	1	5	2.5	0.225	5	<b>89.538</b>	1	<b>155.270</b>	5	1	0.893
	May 2020	3	5	44	2	1	5	2.5	0.241	5	<b>89.985</b>	1	<b>169.841</b>	5	1	0.848
	November 2020	3	5	49	2	1	5	2.5	0.235	5	<b>99.601</b>	1	<b>167.176</b>	5	1	0.709
May 2021	3	5	49	2	1	5	2.5	0.240	5	<b>95.914</b>	1	<b>188.346</b>	5	1	1.066	

**Table 2: 95% LCL Compared to GWPS  
Intermediate Zone  
Multiunit Ash Pond System  
AES Indiana  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF01114**

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)	<b>6</b>	<b>10</b>	<b>2000</b>	<b>4</b>	<b>5</b>	<b>100</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>40</b>	<b>2</b>	<b>100</b>	<b>50</b>	<b>2</b>	<b>5</b>
	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 2019)	6	10	101.1	4	2	10	5	0.4762	10	25.3	2	24.0851	10	2	2.255
MW-111	September 2018	3	5	64	2	1	5	2.5	0.303	5	<b>104.856</b>	1	<b>164.551</b>	5	1	1.823
	May 2019	3	5	63	2	1	5	2.5	0.293	5	<b>103.556</b>	1	<b>163.193</b>	5	1	1.727
	November 2019	3	2	62	2	1	5	2.5	0.296	5	<b>101.843</b>	1	<b>157.499</b>	5	1	1.198
	May 2020	3	0	56	2	1	5	2.5	0.29	5	<b>100.971</b>	1	<b>157.499</b>	5	1	1.053
	November 2020	3	0	45	2	1	5	2.5	0.328	5	<b>94.623</b>	1	<b>157.226</b>	5	1	0.886
	May 2021	3	1	44	2	1	5	2.5	0.350	5	<b>94.299</b>	1	<b>151.016</b>	5	1	0.977

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

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 (page 36444).

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

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 3: 95% LCL Compared to GWPS  
Deep Zone  
Multiunit Ash Pond System  
AES Indiana  
Eagle Valley Generating Station, Martinsville, Indiana  
ATC Project No. 170LF01114**

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	12.6	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 2019)	6	12.6	134.8	4	2	10	5	0.269	10.5	24.6	2	41.5683	10	2	2.5978
MW-1D	September 2018	3	1	68	2	1	5	2.5	0.322	5	<b>88.543</b>	1	<b>107.001</b>	5	1	1.191
	May 2019	3	0	68	2	1	5	2.5	0.313	5	<b>88.724</b>	1	<b>106.551</b>	5	1	1.241
	November 2019	3	1	67	2	1	5	2.5	0.325	5	<b>87.806</b>	1	<b>106.551</b>	5	1	0.852
	May 2020	3	1	65	2	1	5	2.5	0.325	5	<b>87.616</b>	1	<b>112.025</b>	5	1	0.884
	November 2020	3	1	59	2	1	5	2.5	0.353	5	<b>83.667</b>	1	<b>113.599</b>	5	1	0.741
May 2021	3	2	56	2	1	5	2.5	0.320	5	<b>80.921</b>	1	<b>107.008</b>	5	1	0.897	
MW-2D	September 2018	3	3	42	2	1	5	2.5	0.290	5	<b>72.668</b>	1	<b>103.757</b>	5	1	1.668
	May 2019	3	3	40	2	1	5	2.5	0.289	5	<b>71.147</b>	1	92.570	5	1	1.351
	November 2019	3	3	42	2	1	5	2.5	0.295	5	<b>69.227</b>	1	85.261	5	1	1.382
	May 2020	3	3	42	2	1	5	2.5	0.293	5	<b>68.124</b>	1	90.588	5	1	1.387
	November 2020	3	3	48	2	1	5	2.5	0.32	5	<b>55.784</b>	1	78.723	5	1	0.953
May 2021	3	3	50	2	1	5	2.5	0.214	5	<b>47.570</b>	1	67.418	5	1	0.770	
MW-6D	September 2018	3	5	48	2	1	5	2.5	0.107	5	<b>90.432</b>	1	<b>192.856</b>	5	1	0.758
	May 2019	3	5	48	2	1	5	2.5	0.107	5	<b>92.149</b>	1	<b>190.163</b>	5	1	1.004
	November 2019	3	5	48	2	1	5	2.5	0.112	5	<b>90.092</b>	1	<b>176.356</b>	5	1	0.968
	May 2020	3	5	51	2	1	5	2.5	0.117	5	<b>88.906</b>	1	<b>176.534</b>	5	1	1.265
	November 2020	3	5	50	2	1	5	2.5	0.129	5	<b>82.687</b>	1	<b>175.267</b>	5	1	1.098
May 2021	3	5	48	2	1	5	2.5	0.129	5	<b>80.284</b>	1	<b>174.337</b>	5	1	0.994	
MW-11D	September 2018	3	0	30	2	1	0	0	0.168	0	<b>75.647</b>	1	<b>160.572</b>	5	1	0.976
	May 2019	3	5	67	2	1	0	2.5	0.173	0	<b>83.997</b>	1	<b>158.480</b>	5	1	0.936
	November 2019	3	5	68	2	1	0	2.5	0.175	0	<b>84.526</b>	1	<b>153.252</b>	5	1	0.901
	May 2020	3	5	64	2	1	5	2.5	0.169	5	<b>84.647</b>	1	<b>155.670</b>	5	1	0.778
	November 2020	3	5	54	2	1	5	2.5	0.192	5	<b>86.900</b>	1	<b>163.226</b>	5	1	0.763
May 2021	3	5	50	2	1	5	0.5	0.207	5	<b>83.277</b>	1	<b>163.168</b>	5	1	0	

Notes:  
MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations  
GWPS - Groundwater Protection Standard  
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  
Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.  
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	0.002	0.001	1.176	0.002	0.003	0.006	
Antimony, Total	mg/L	MW-11S	4	0.002	0.000	1.176	0.001	0.002	0.006	
Antimony, Total	mg/L	MW-12S	4	0.001	0.000	1.176	0.001	0.002	0.006	
Antimony, Total	mg/L	MW-1S	4	0.003	0.001	1.176	0.002	0.004	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	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-6S	4	0.001	0.000	1.176	0.001	0.002	0.006	
Antimony, Total	mg/L	MW-7S	4	0.002	0.001	1.176	0.002	0.003	0.006	
Arsenic, Total	mg/L	MW-10S	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-11S	4	0.110	0.025	1.176	0.080	0.139	0.010	**
Arsenic, Total	mg/L	MW-12S	4	0.002	0.002	1.176	0.000	0.004	0.010	
Arsenic, Total	mg/L	MW-1S	4	0.007	0.003	1.176	0.004	0.010	0.010	
Arsenic, Total	mg/L	MW-2S	4	0.011	0.003	1.176	0.008	0.015	0.010	
Arsenic, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-6S	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-7S	4	0.004	0.002	1.176	0.002	0.006	0.010	
Barium, Total	mg/L	MW-10S	4	0.088	0.010	1.176	0.077	0.100	2.000	
Barium, Total	mg/L	MW-11S	4	0.106	0.025	1.176	0.077	0.136	2.000	
Barium, Total	mg/L	MW-12S	4	0.115	0.013	1.176	0.100	0.131	2.000	
Barium, Total	mg/L	MW-1S	4	0.085	0.016	1.176	0.066	0.104	2.000	
Barium, Total	mg/L	MW-2S	4	0.136	0.040	1.176	0.089	0.183	2.000	
Barium, Total	mg/L	MW-3S	4	0.100	0.027	1.176	0.069	0.132	2.000	
Barium, Total	mg/L	MW-6S	4	0.109	0.014	1.176	0.093	0.126	2.000	
Barium, Total	mg/L	MW-7S	4	0.082	0.022	1.176	0.056	0.108	2.000	dec
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	0.000	1.176	0.002	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-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-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	
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-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-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	

\* - 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-10S	4	0.005	0.000	1.176	0.005	0.005	0.100		
Chromium, Total	mg/L	MW-11S	4	0.005	0.000	1.176	0.005	0.005	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-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-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		
Cobalt, Total	ug/L	MW-10S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-11S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-12S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-1S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-2S	4	2.125	0.750	1.176	1.243	3.007	6.000		
Cobalt, Total	ug/L	MW-3S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-6S	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-7S	4	2.450	0.100	1.176	2.332	2.568	6.000		
Fluoride	mg/L	MW-10S	4	0.248	0.036	1.176	0.205	0.290	4.000		
Fluoride	mg/L	MW-11S	4	0.203	0.031	1.176	0.166	0.239	4.000	dec	
Fluoride	mg/L	MW-12S	4	0.263	0.035	1.176	0.221	0.304	4.000	dec	
Fluoride	mg/L	MW-1S	4	0.210	0.109	1.176	0.082	0.338	4.000	dec	
Fluoride	mg/L	MW-2S	4	0.138	0.028	1.176	0.105	0.170	4.000	dec	
Fluoride	mg/L	MW-3S	4	0.353	0.045	1.176	0.300	0.405	4.000		
Fluoride	mg/L	MW-6S	4	0.213	0.040	1.176	0.165	0.260	4.000		
Fluoride	mg/L	MW-7S	4	0.050	0.000	1.176	0.050	0.050	4.000	dec	
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	0.005	0.000	1.176	0.005	0.005	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-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-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		
Lithium, Total	ug/L	MW-10S	4	101.400	8.477	1.176	91.428	111.372	40.000		**
Lithium, Total	ug/L	MW-11S	4	118.000	12.083	1.176	103.787	132.213	40.000		**
Lithium, Total	ug/L	MW-12S	4	113.325	11.987	1.176	99.225	127.425	40.000		**
Lithium, Total	ug/L	MW-1S	4	105.750	24.254	1.176	77.220	134.280	40.000		**
Lithium, Total	ug/L	MW-2S	4	75.400	23.552	1.176	47.696	103.104	40.000		**
Lithium, Total	ug/L	MW-3S	4	13.575	7.150	1.176	5.165	21.985	40.000	dec	
Lithium, Total	ug/L	MW-6S	4	86.825	10.449	1.176	74.534	99.116	40.000		**
Lithium, Total	ug/L	MW-7S	4	29.650	2.709	1.176	26.464	32.836	40.000	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
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-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-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	
Molybdenum, Total	ug/L	MW-10S	4	91.650	5.188	1.176	85.547	97.753	100.000	
Molybdenum, Total	ug/L	MW-11S	4	102.075	37.123	1.176	58.408	145.742	100.000	dec
Molybdenum, Total	ug/L	MW-12S	4	56.525	12.360	1.176	41.986	71.064	100.000	
Molybdenum, Total	ug/L	MW-1S	4	42.175	17.165	1.176	21.985	62.365	100.000	
Molybdenum, Total	ug/L	MW-2S	4	8.925	4.613	1.176	3.499	14.351	100.000	dec
Molybdenum, Total	ug/L	MW-3S	4	64.825	9.058	1.176	54.170	75.480	100.000	
Molybdenum, Total	ug/L	MW-6S	4	134.175	31.042	1.176	97.661	170.689	100.000	
Molybdenum, Total	ug/L	MW-7S	4	41.725	2.884	1.176	38.333	45.117	100.000	
Selenium, Total	mg/L	MW-10S	4	0.004	0.006	1.176	0.000	0.011	0.050	
Selenium, Total	mg/L	MW-11S	4	0.009	0.004	1.176	0.004	0.014	0.050	
Selenium, Total	mg/L	MW-12S	4	0.025	0.013	1.176	0.010	0.041	0.050	
Selenium, Total	mg/L	MW-1S	4	0.012	0.008	1.176	0.002	0.022	0.050	
Selenium, Total	mg/L	MW-2S	4	0.031	0.044	1.176	0.000	0.083	0.050	
Selenium, Total	mg/L	MW-3S	4	0.005	0.000	1.176	0.005	0.005	0.050	
Selenium, Total	mg/L	MW-6S	4	0.011	0.004	1.176	0.007	0.016	0.050	
Selenium, Total	mg/L	MW-7S	4	0.015	0.007	1.176	0.006	0.024	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-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-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	
Total Radium	pCi/L	MW-10S	4	1.339	0.468	1.176	0.788	1.890	5.000	
Total Radium	pCi/L	MW-11S	4	0.893	0.199	1.176	0.658	1.127	5.000	
Total Radium	pCi/L	MW-12S	4	0.795	0.000	1.176	0.795	0.795	5.000	
Total Radium	pCi/L	MW-1S	4	0.800	0.000	1.176	0.800	0.800	5.000	
Total Radium	pCi/L	MW-2S	4	1.513	1.141	1.176	0.170	2.855	5.000	
Total Radium	pCi/L	MW-3S	4	0.850	0.000	1.176	0.850	0.850	5.000	
Total Radium	pCi/L	MW-6S	4	1.078	0.362	1.176	0.653	1.504	5.000	
Total Radium	pCi/L	MW-7S	4	1.557	1.203	1.176	0.142	2.973	5.000	

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 \*\* - Significant Exceedance  
 LCL = Lower Confidence Limit  
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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
Antimony, Total	mg/L	MW-111	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-11	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-2I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-3I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Antimony, Total	mg/L	MW-6I	4	0.003	0.000	1.176	0.003	0.003	0.006	
Arsenic, Total	mg/L	MW-111	4	0.001	0.000	1.176	0.001	0.001	0.010	
Arsenic, Total	mg/L	MW-11	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Arsenic, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.010	
Barium, Total	mg/L	MW-111	4	0.054	0.009	1.176	0.044	0.064	2.000	dec
Barium, Total	mg/L	MW-11	4	0.056	0.001	1.176	0.054	0.057	2.000	
Barium, Total	mg/L	MW-2I	4	0.069	0.009	1.176	0.058	0.080	2.000	
Barium, Total	mg/L	MW-3I	4	0.065	0.018	1.176	0.044	0.086	2.000	
Barium, Total	mg/L	MW-6I	4	0.053	0.003	1.176	0.049	0.057	2.000	
Beryllium, Total	mg/L	MW-111	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-11	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-2I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-3I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Beryllium, Total	mg/L	MW-6I	4	0.002	0.000	1.176	0.002	0.002	0.004	
Cadmium, Total	mg/L	MW-111	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-11	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Cadmium, Total	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.005	
Chromium, Total	mg/L	MW-111	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-11	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Chromium, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.100	
Cobalt, Total	ug/L	MW-111	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-2I	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-3I	4	2.500	0.000	1.176	2.500	2.500	6.000	
Cobalt, Total	ug/L	MW-6I	4	2.500	0.000	1.176	2.500	2.500	6.000	
Fluoride	mg/L	MW-111	4	0.387	0.032	1.176	0.350	0.425	4.000	
Fluoride	mg/L	MW-11	4	0.318	0.043	1.176	0.267	0.368	4.000	dec
Fluoride	mg/L	MW-2I	4	0.267	0.059	1.176	0.198	0.337	4.000	dec
Fluoride	mg/L	MW-3I	4	0.267	0.073	1.176	0.182	0.353	4.000	
Fluoride	mg/L	MW-6I	4	0.273	0.028	1.176	0.240	0.305	4.000	

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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	
Lead, Total	mg/L	MW-111	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-11	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lead, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	ug/L	MW-111	4	101.050	5.740	1.176	94.299	107.801	40.000	dec	**
Lithium, Total	ug/L	MW-11	4	96.525	8.098	1.176	86.999	106.051	40.000		**
Lithium, Total	ug/L	MW-2I	4	68.875	10.678	1.176	56.314	81.436	40.000	dec	**
Lithium, Total	ug/L	MW-3I	4	12.825	5.650	1.176	6.179	19.471	40.000	dec	
Lithium, Total	ug/L	MW-6I	4	108.950	11.082	1.176	95.914	121.986	40.000	dec	**
Mercury	mg/L	MW-111	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-11	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Mercury	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	ug/L	MW-111	4	160.500	8.062	1.176	151.016	169.984	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	4	103.850	6.027	1.176	96.761	110.939	100.000	dec	
Molybdenum, Total	ug/L	MW-2I	4	63.675	1.037	1.176	62.455	64.895	100.000	dec	
Molybdenum, Total	ug/L	MW-3I	4	71.975	9.671	1.176	60.599	83.351	100.000		
Molybdenum, Total	ug/L	MW-6I	4	213.250	21.172	1.176	188.346	238.154	100.000		**
Selenium, Total	mg/L	MW-111	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-11	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-2I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-3I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Selenium, Total	mg/L	MW-6I	4	0.005	0.000	1.176	0.005	0.005	0.050		
Thallium, Total	mg/L	MW-111	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-11	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-2I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-3I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Thallium, Total	mg/L	MW-6I	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-111	4	1.308	0.281	1.176	0.977	1.638	5.000		
Total Radium	pCi/L	MW-11	4	1.740	0.324	1.176	1.358	2.122	5.000		
Total Radium	pCi/L	MW-2I	4	1.755	0.748	1.176	0.875	2.635	5.000		
Total Radium	pCi/L	MW-3I	4	1.134	0.340	1.176	0.734	1.534	5.000		
Total Radium	pCi/L	MW-6I	4	1.795	0.620	1.176	1.066	2.524	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	
Antimony, Total	mg/L	MW-11D	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-6D	4	0.003	0.000	1.176	0.003	0.003	0.006		
Arsenic, Total	mg/L	MW-11D	4	0.005	0.000	1.176	0.005	0.006	0.010		
Arsenic, Total	mg/L	MW-1D	4	0.003	0.001	1.176	0.002	0.004	0.010		
Arsenic, Total	mg/L	MW-2D	4	0.004	0.000	1.176	0.003	0.004	0.010		
Arsenic, Total	mg/L	MW-6D	4	0.005	0.000	1.176	0.005	0.005	0.010		
Barium, Total	mg/L	MW-11D	4	0.060	0.008	1.176	0.050	0.070	2.000	dec	
Barium, Total	mg/L	MW-1D	4	0.064	0.007	1.176	0.056	0.072	2.000		
Barium, Total	mg/L	MW-2D	4	0.061	0.010	1.176	0.050	0.073	2.000		
Barium, Total	mg/L	MW-6D	4	0.056	0.007	1.176	0.048	0.064	2.000		
Beryllium, Total	mg/L	MW-11D	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-6D	4	0.002	0.000	1.176	0.002	0.002	0.004		
Cadmium, Total	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.005		
Chromium, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.100		
Cobalt, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1D	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-2D	4	2.500	0.000	1.176	2.500	2.500	6.000		
Cobalt, Total	ug/L	MW-6D	4	2.500	0.000	1.176	2.500	2.500	6.000		
Fluoride	mg/L	MW-11D	4	0.235	0.024	1.176	0.207	0.263	4.000	dec	
Fluoride	mg/L	MW-1D	4	0.355	0.030	1.176	0.320	0.390	4.000	dec	
Fluoride	mg/L	MW-2D	4	0.303	0.075	1.176	0.214	0.391	4.000	dec	
Fluoride	mg/L	MW-6D	4	0.150	0.018	1.176	0.129	0.171	4.000		
Lead, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.015		
Lithium, Total	ug/L	MW-11D	4	89.225	5.057	1.176	83.277	95.173	40.000	dec	**
Lithium, Total	ug/L	MW-1D	4	87.575	5.657	1.176	80.921	94.229	40.000	dec	**
Lithium, Total	ug/L	MW-2D	4	63.650	13.670	1.176	47.570	79.730	40.000	dec	**
Lithium, Total	ug/L	MW-6D	4	90.625	8.791	1.176	80.284	100.966	40.000	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	
Mercury	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Molybdenum, Total	ug/L	MW-11D	4	170.250	6.021	1.176	163.168	177.332	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	4	114.000	5.944	1.176	107.008	120.992	100.000		**
Molybdenum, Total	ug/L	MW-2D	4	82.200	12.567	1.176	67.418	96.982	100.000		**
Molybdenum, Total	ug/L	MW-6D	4	198.000	20.116	1.176	174.337	221.663	100.000		**
Selenium, Total	mg/L	MW-11D	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-6D	4	0.005	0.000	1.176	0.005	0.005	0.050		
Thallium, Total	mg/L	MW-11D	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-6D	4	0.001	0.000	1.176	0.001	0.001	0.002		
Total Radium	pCi/L	MW-11D	4	2.629	2.997	1.176	0.000	6.154	5.000		
Total Radium	pCi/L	MW-1D	4	1.745	0.720	1.176	0.897	2.592	5.000		
Total Radium	pCi/L	MW-2D	4	1.569	0.679	1.176	0.770	2.368	5.000		
Total Radium	pCi/L	MW-6D	4	1.345	0.298	1.176	0.994	1.696	5.000		

\* - Insufficient Data  
 \*\* - Significant Exceedance  
 LCL = Lower Confidence Limit  
 UCL = Upper Confidence Limit